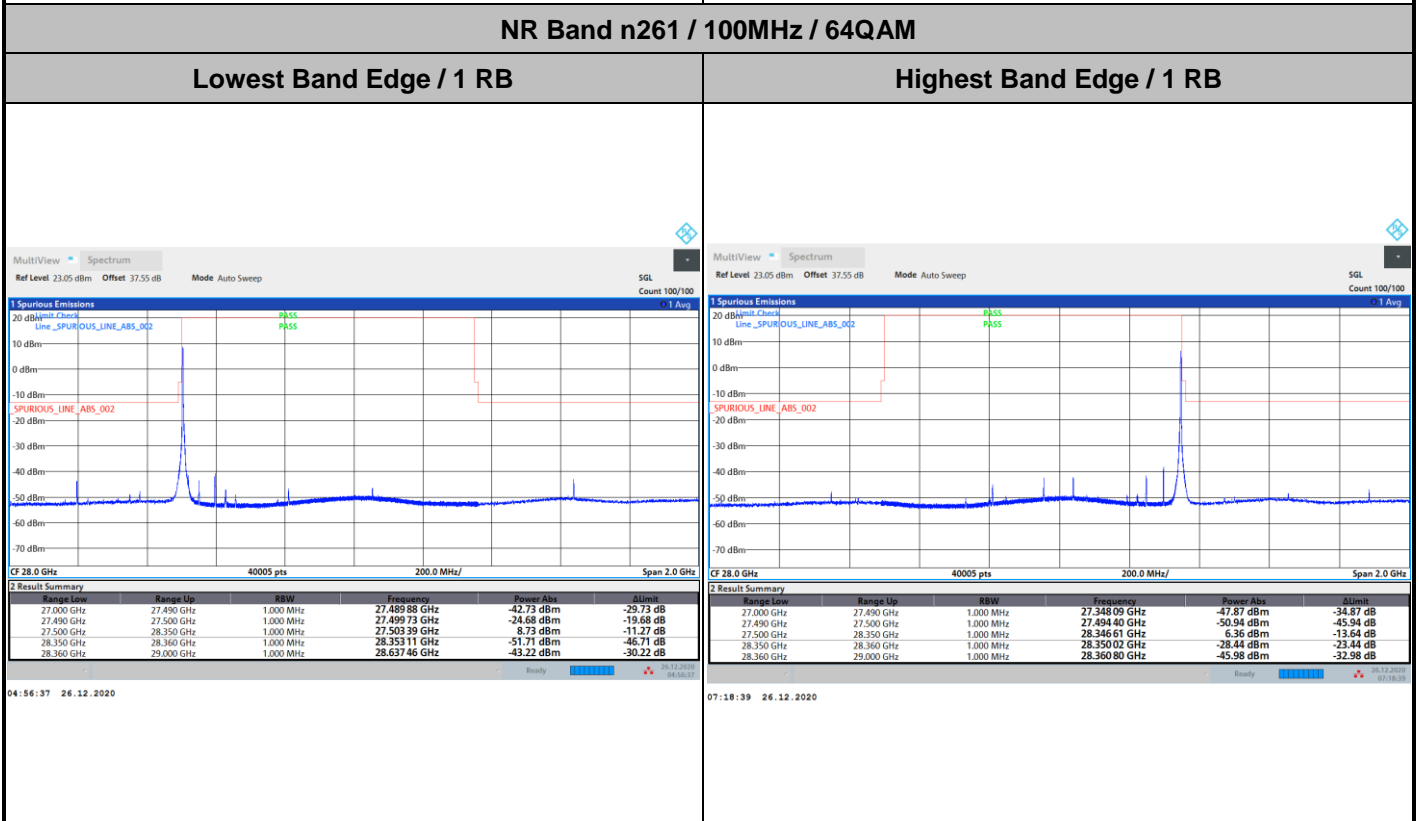
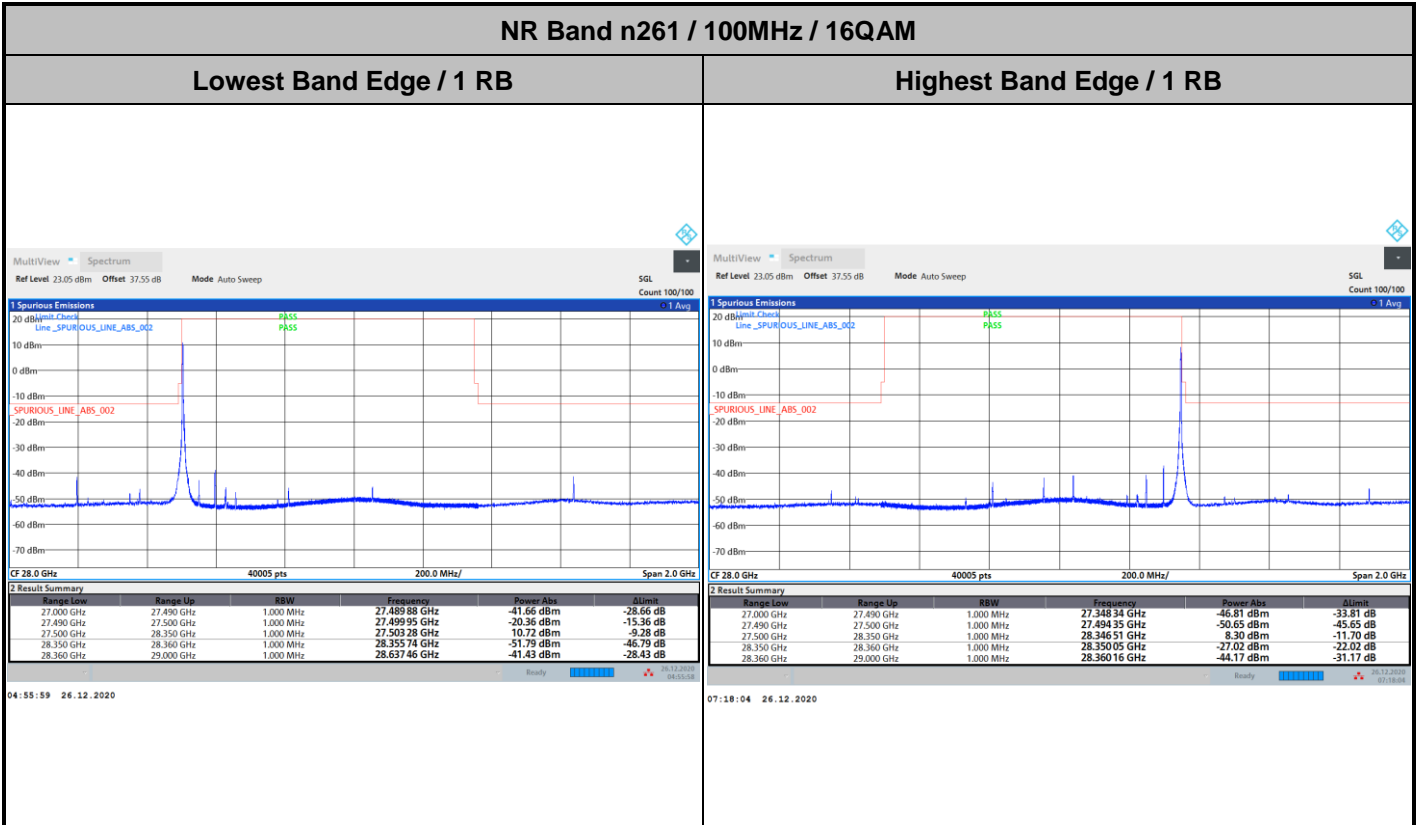




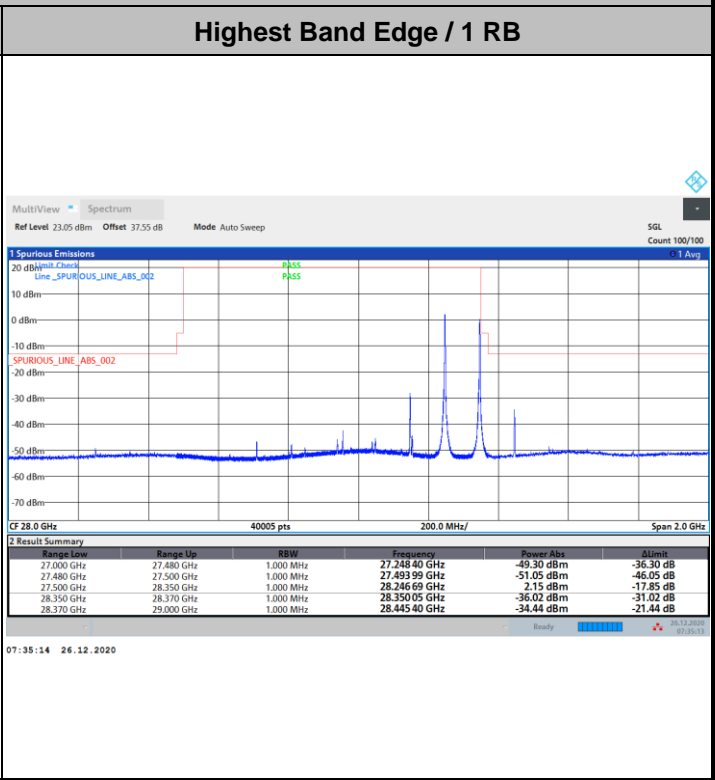
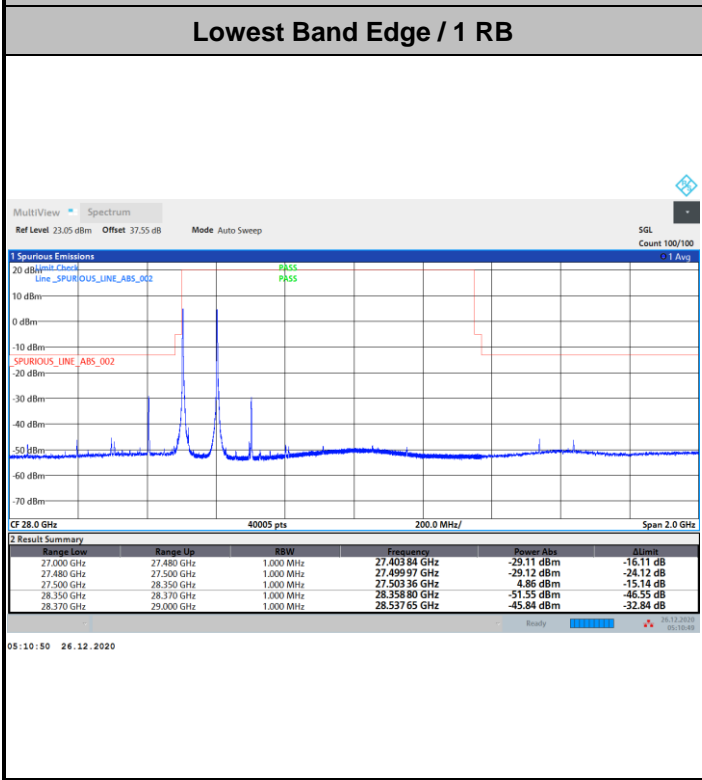
DFT-s-OFDM Module 1



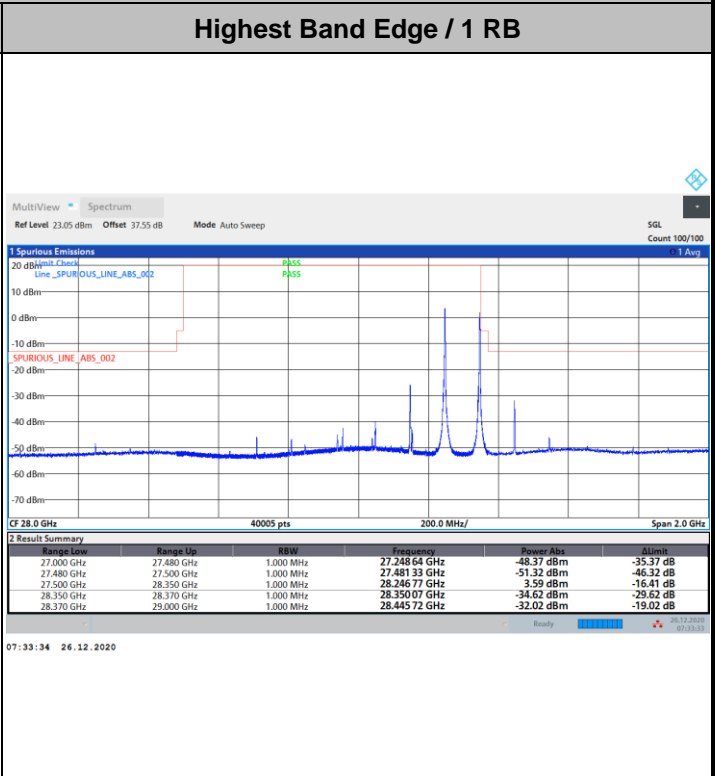
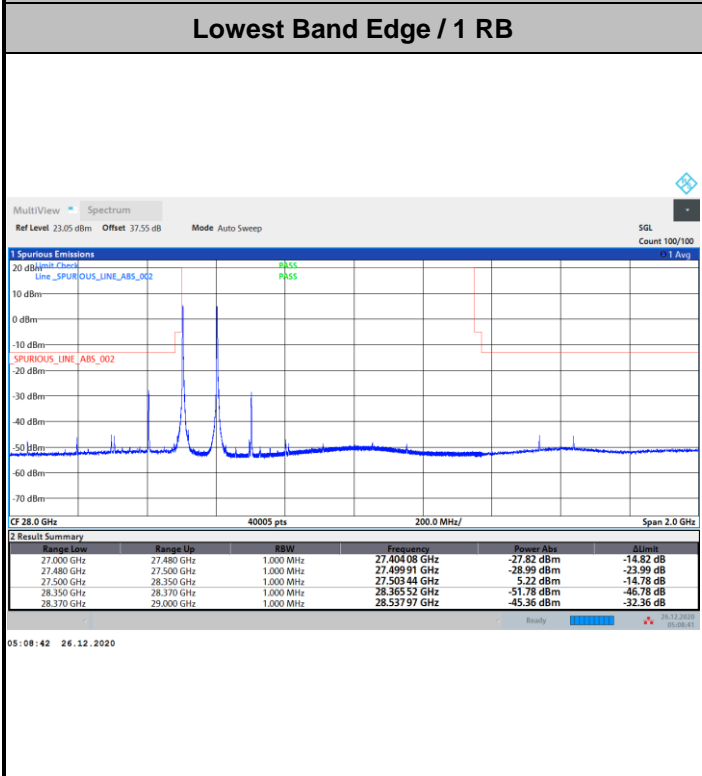


DFT-s-OFDM Module 1

NR Band n261 / 200MHz / BPSK

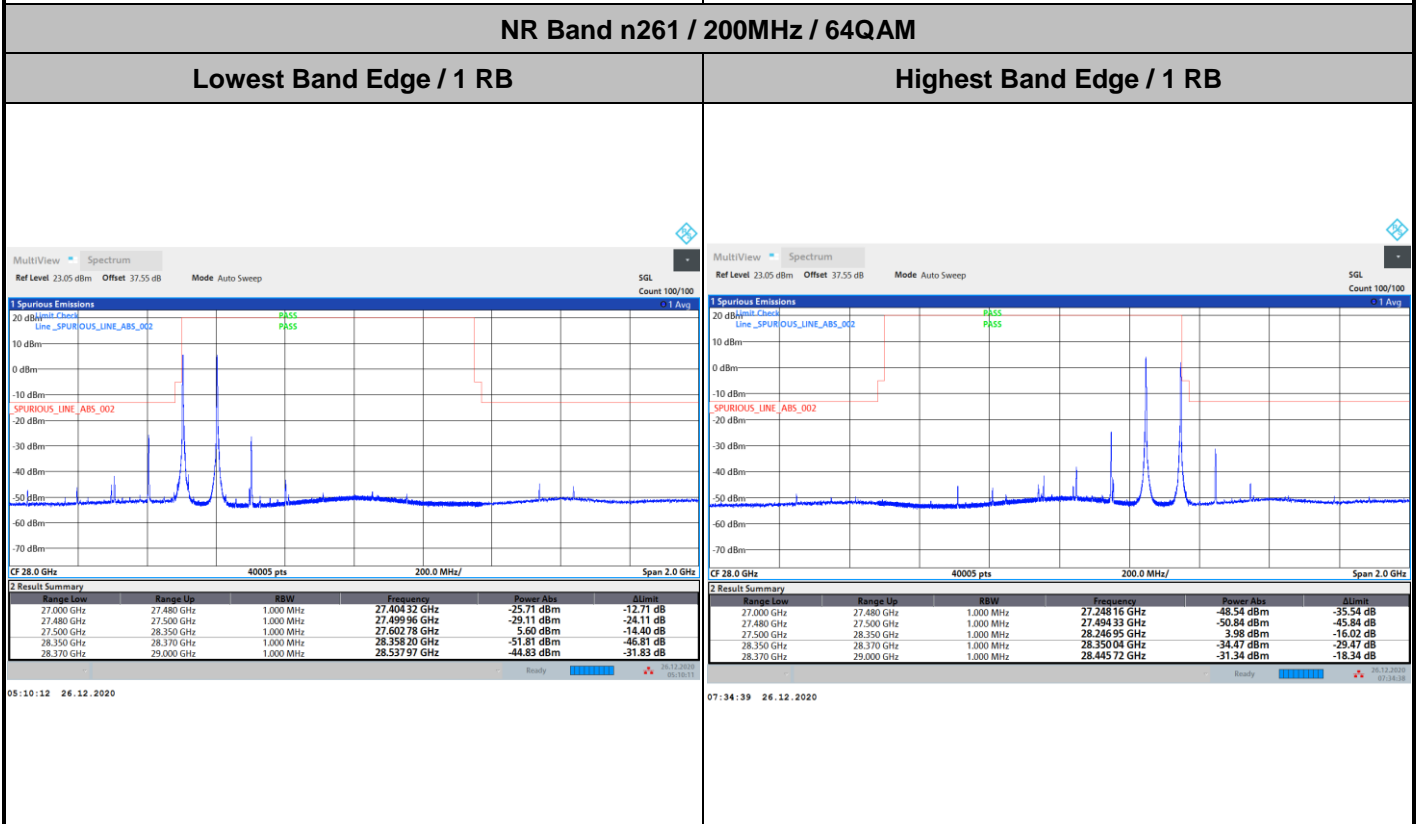
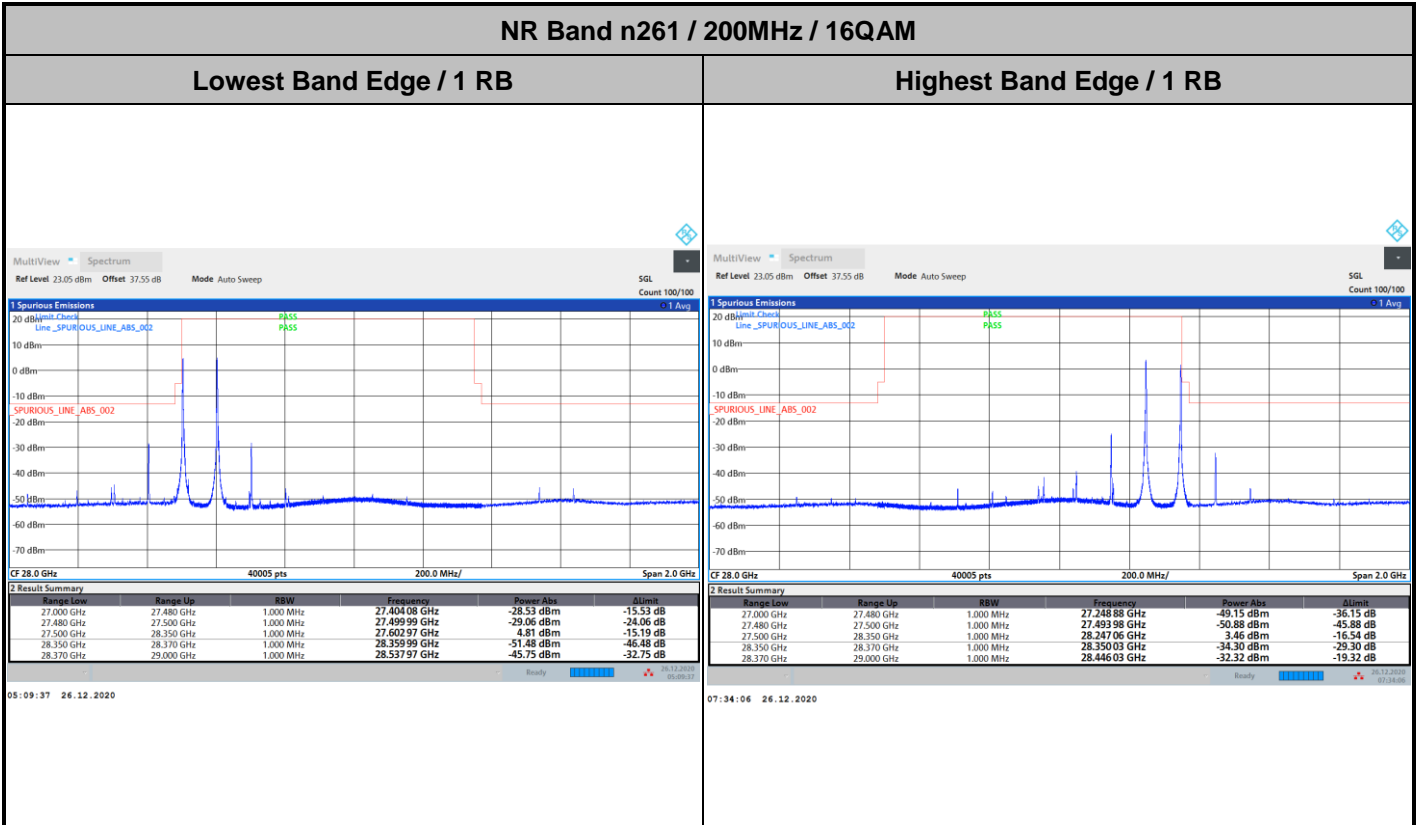


NR Band n261 / 50MHz / QPSK





DFT-s-OFDM Module 1

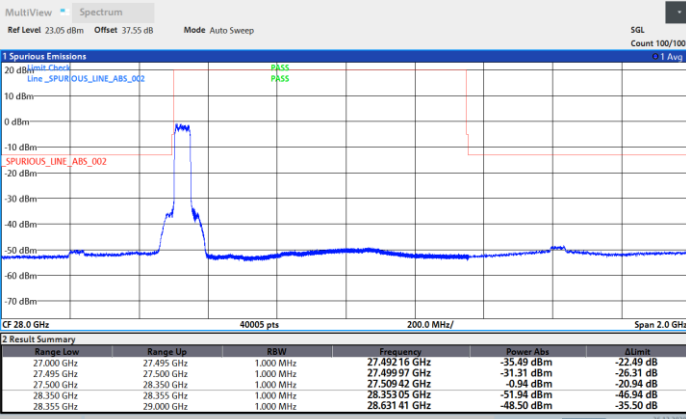




DFT-s-OFDM Module 1

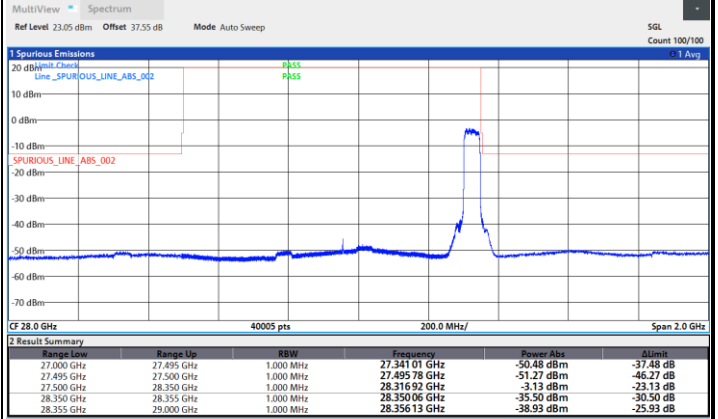
NR Band n261 / 50MHz / BPSK

Lowest Band Edge / Full RB



04:45:02 26.12.2020

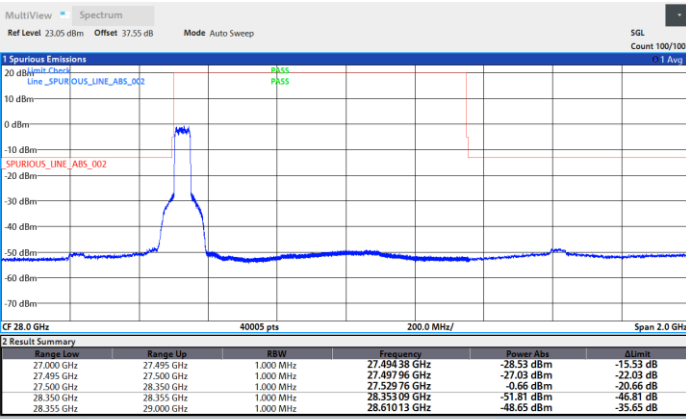
Highest Band Edge / Full RB



07:04:57 26.12.2020

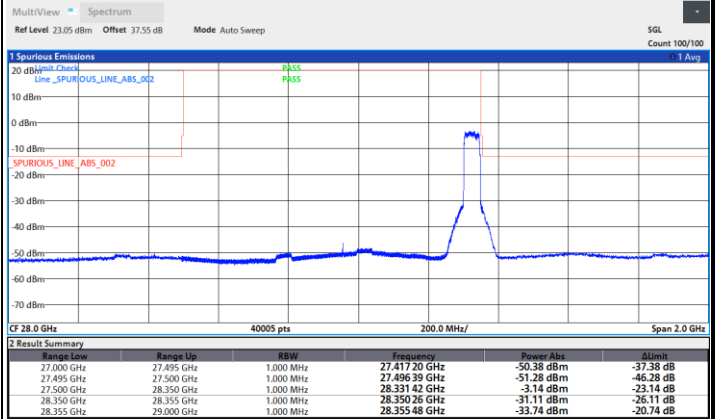
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



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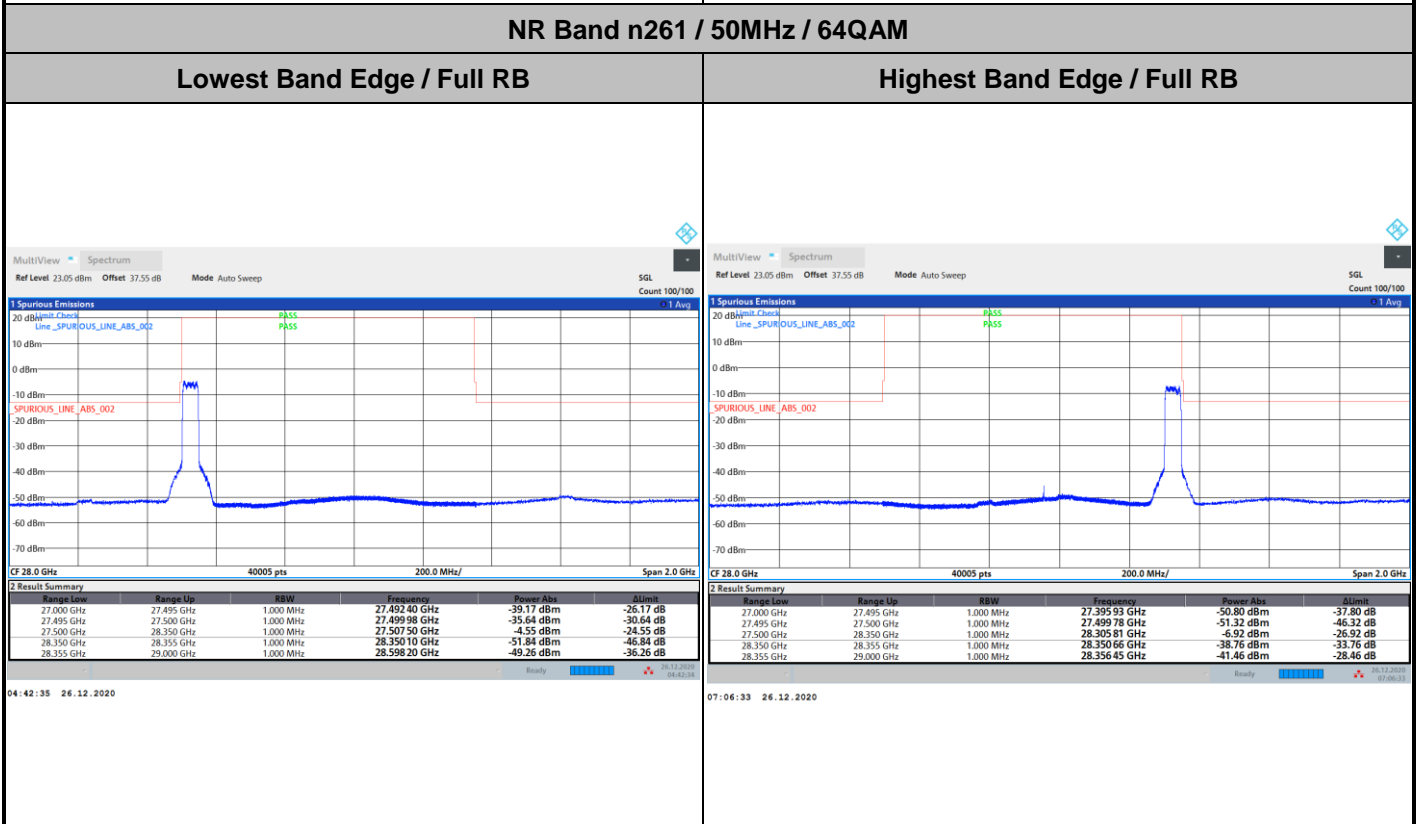
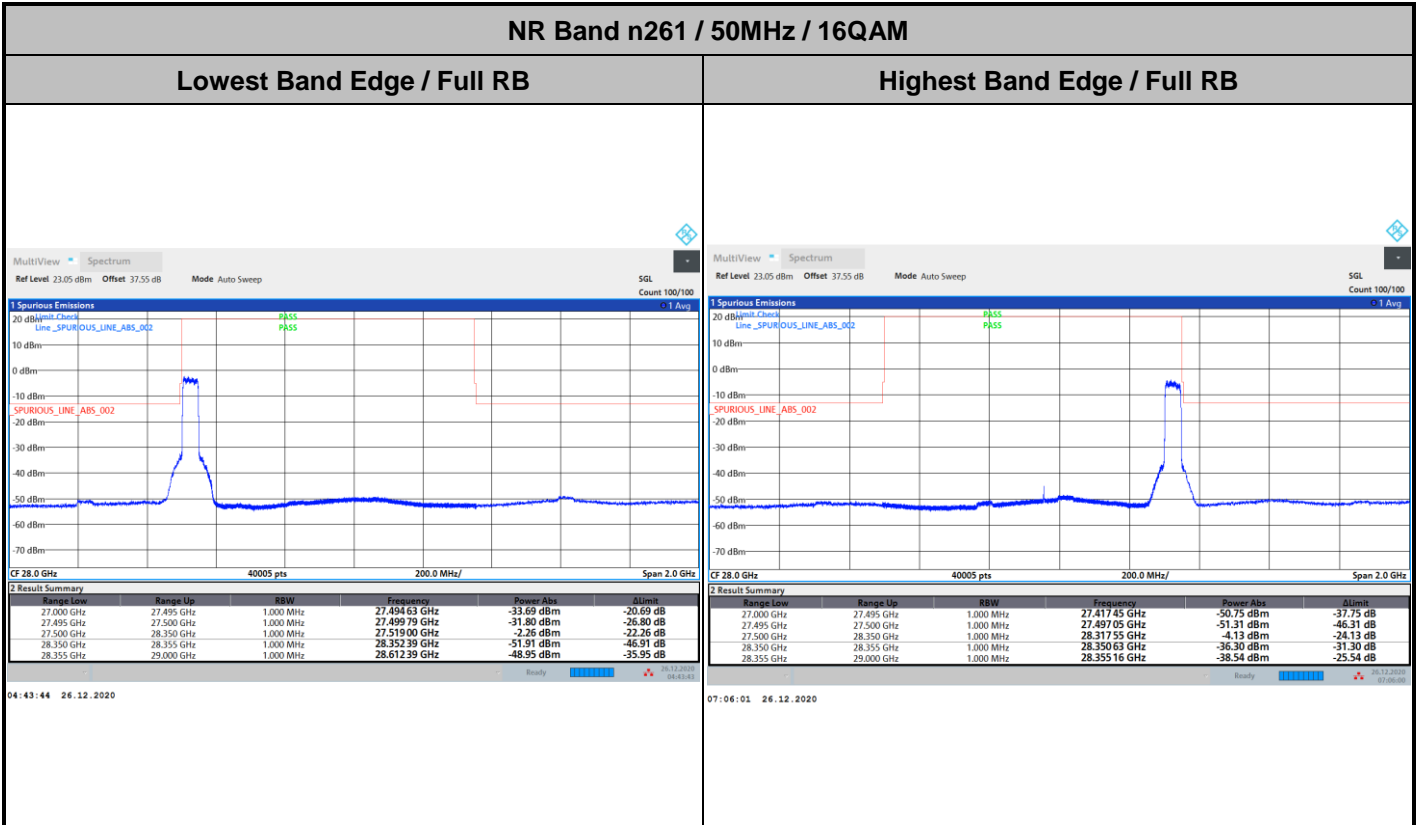
Highest Band Edge / Full RB



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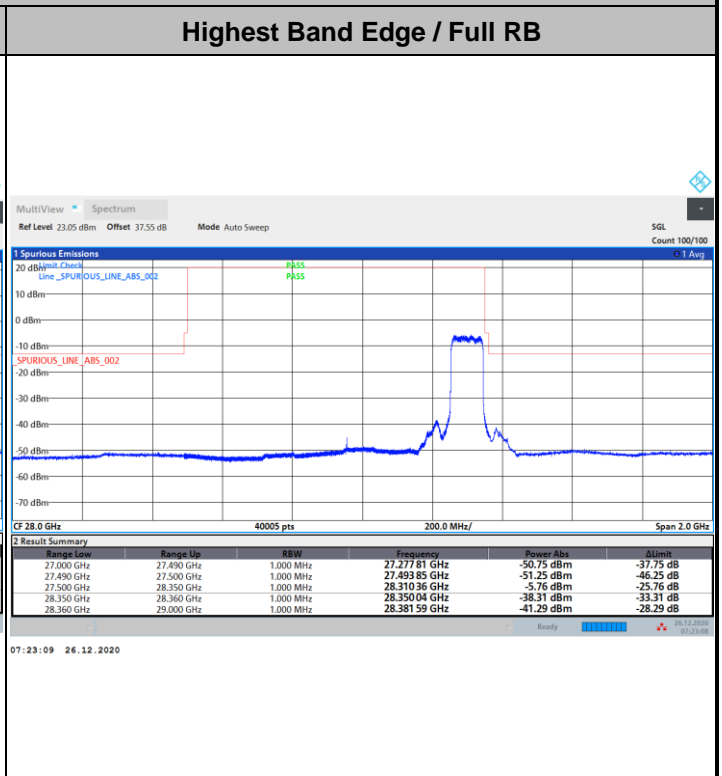
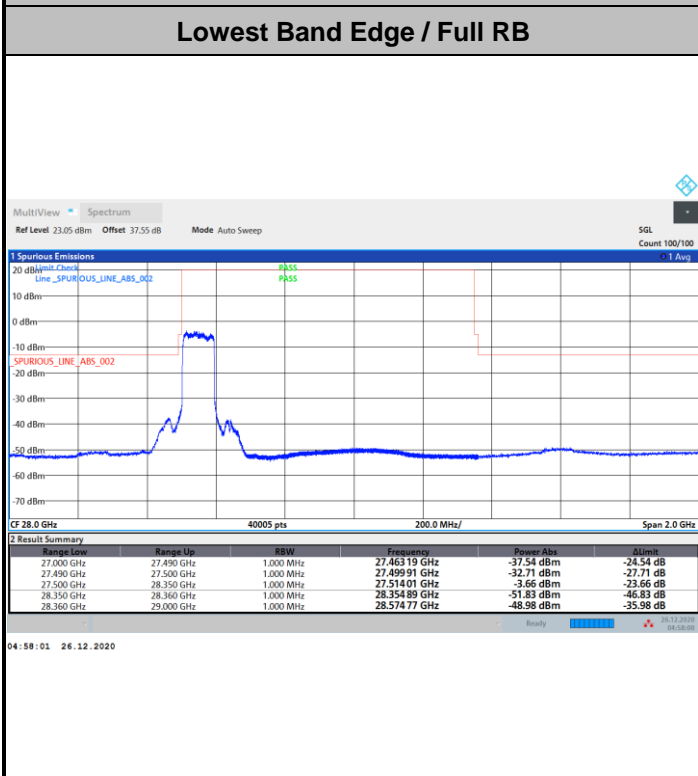
DFT-s-OFDM Module 1



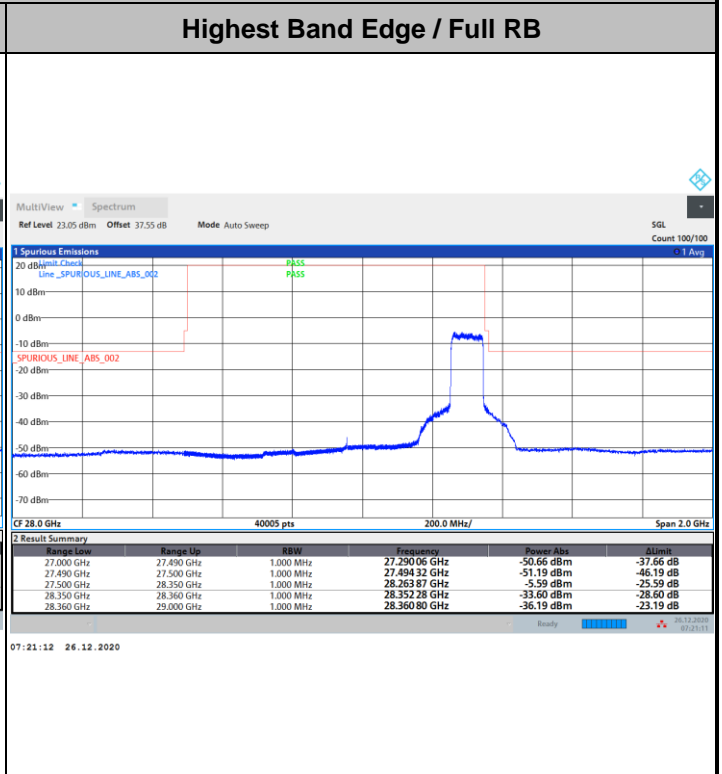
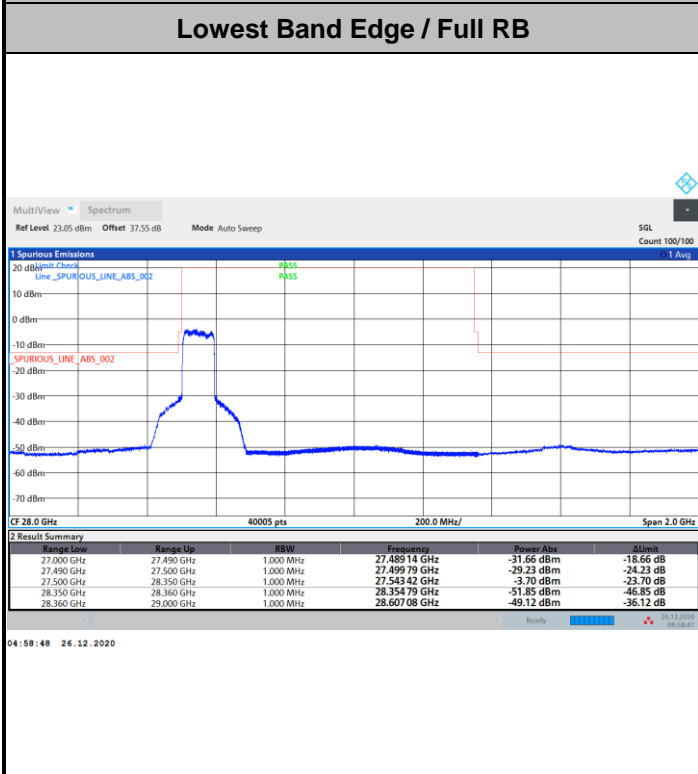


DFT-s-OFDM Module 1

NR Band n261 / 100MHz / BPSK



NR Band n261 / 100MHz / QPSK

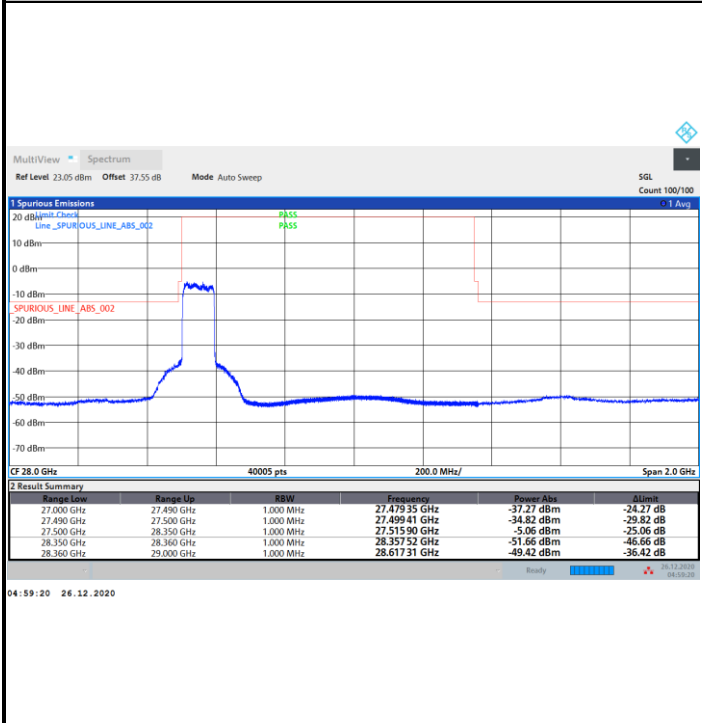




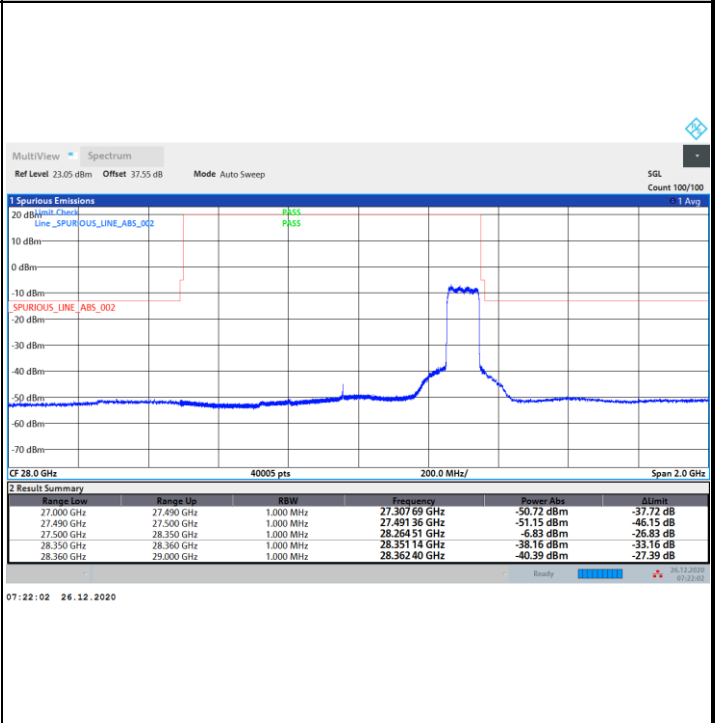
DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB

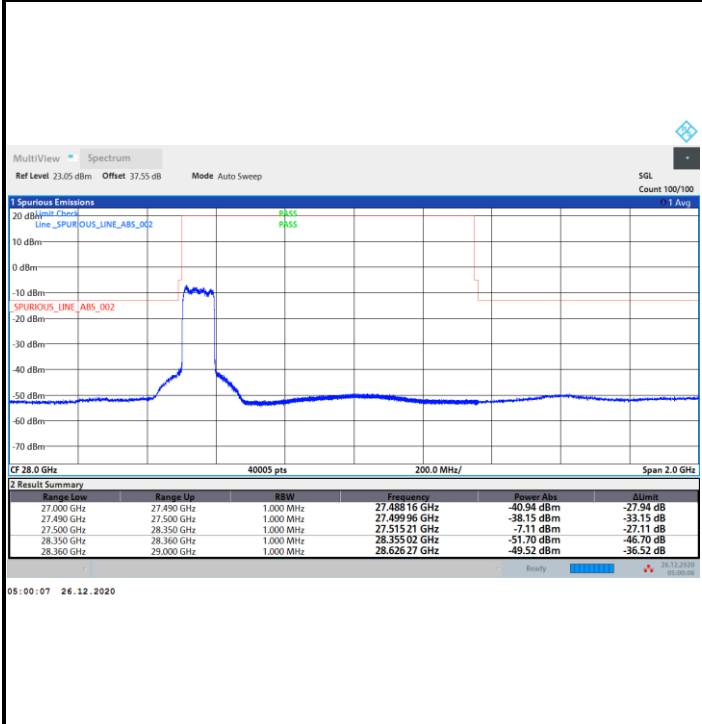


Highest Band Edge / Full RB

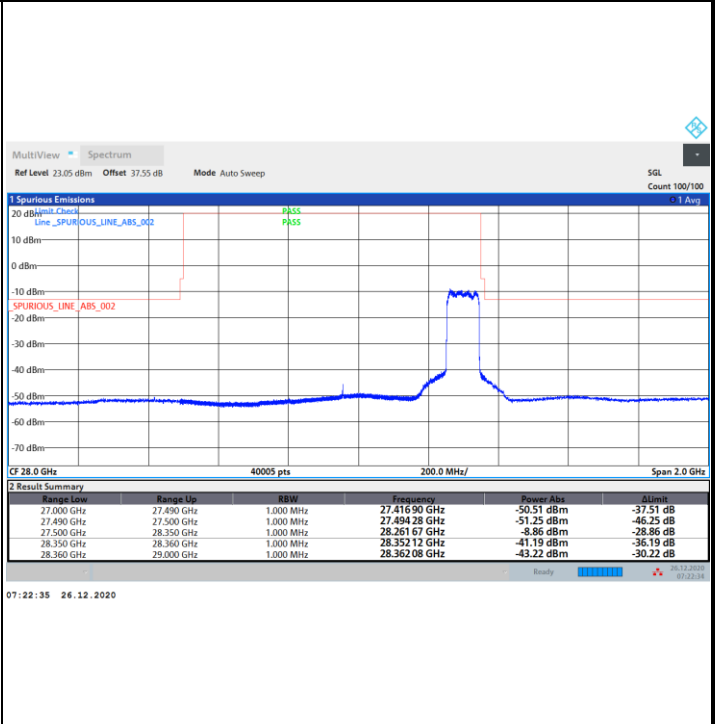


NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB

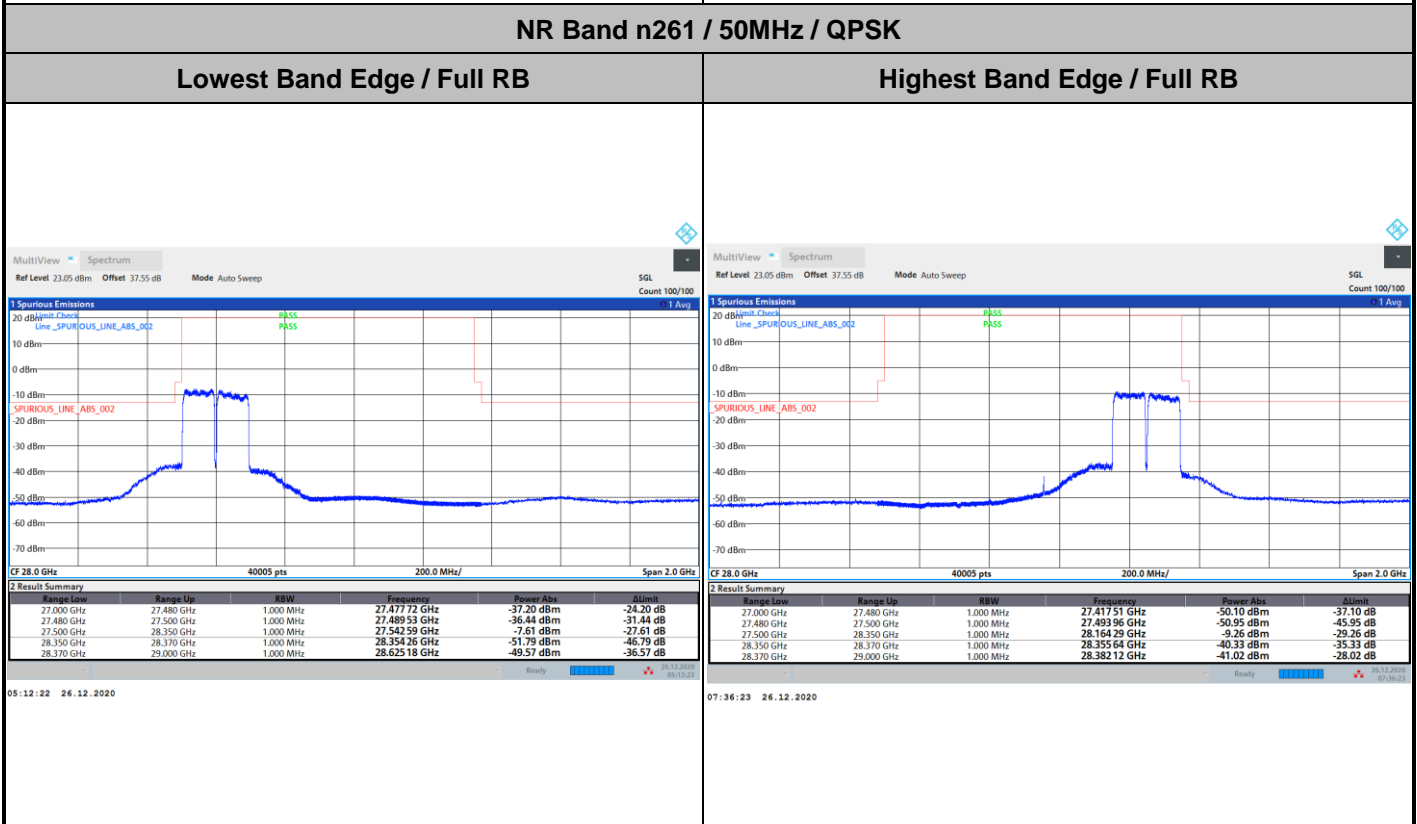
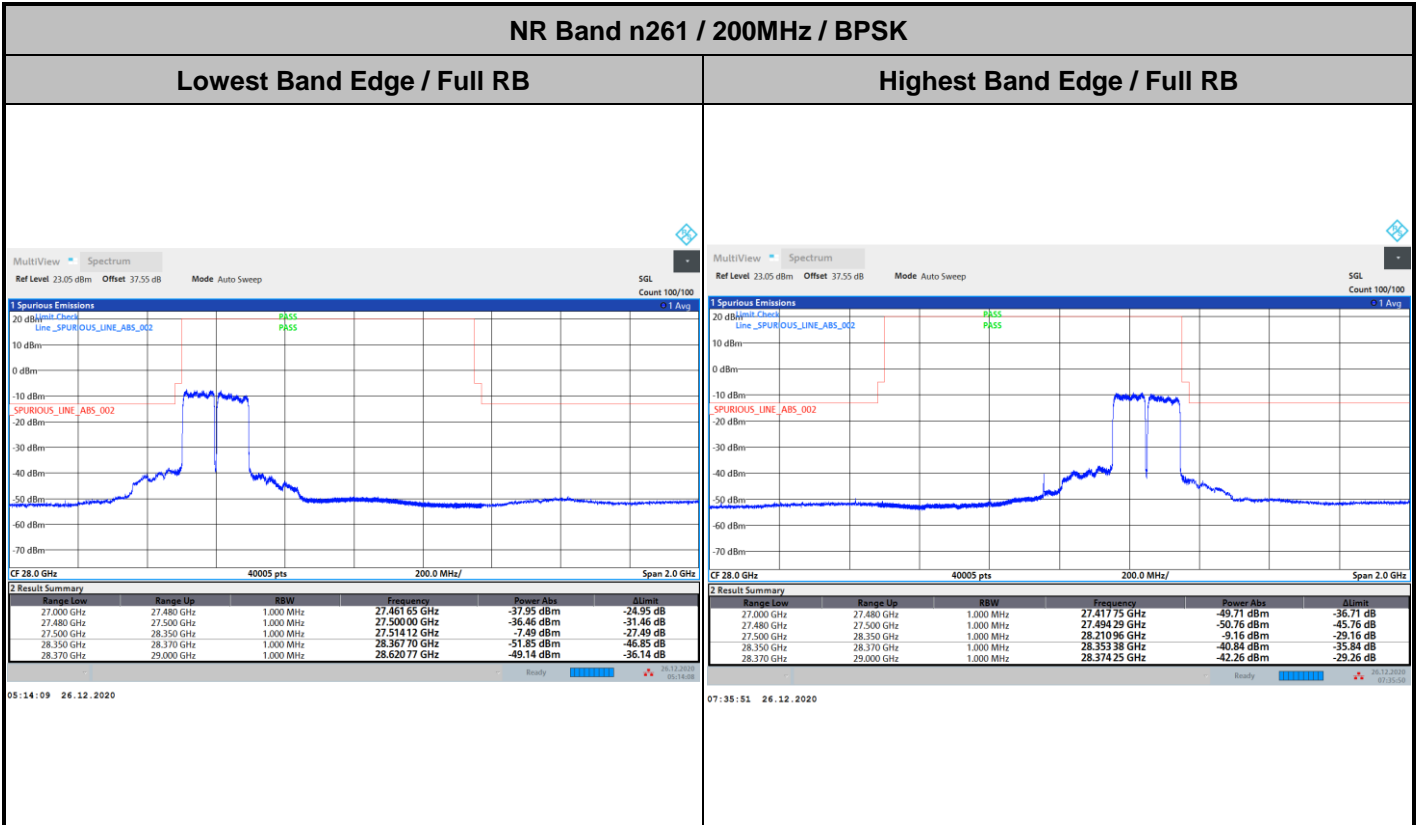


Highest Band Edge / Full RB



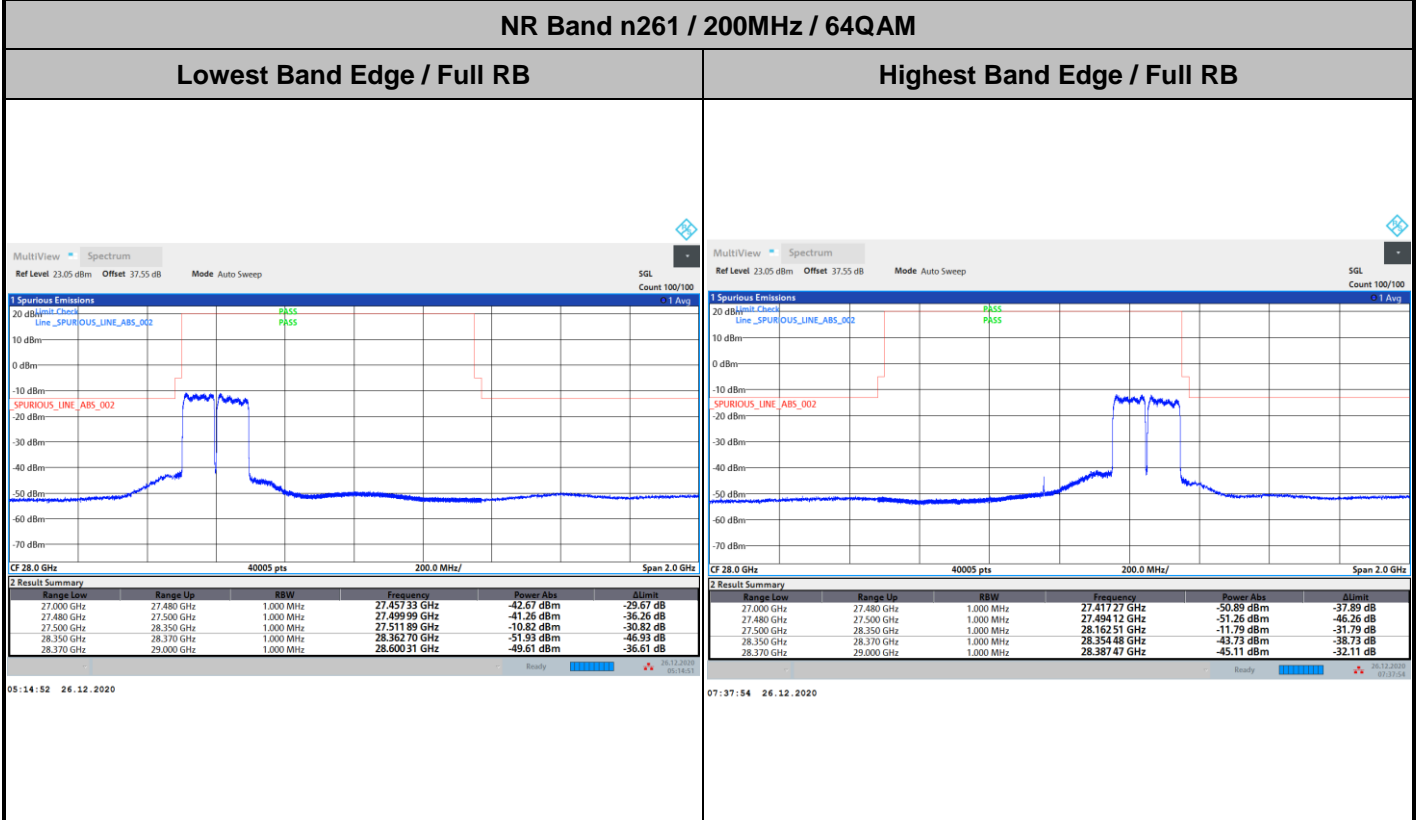
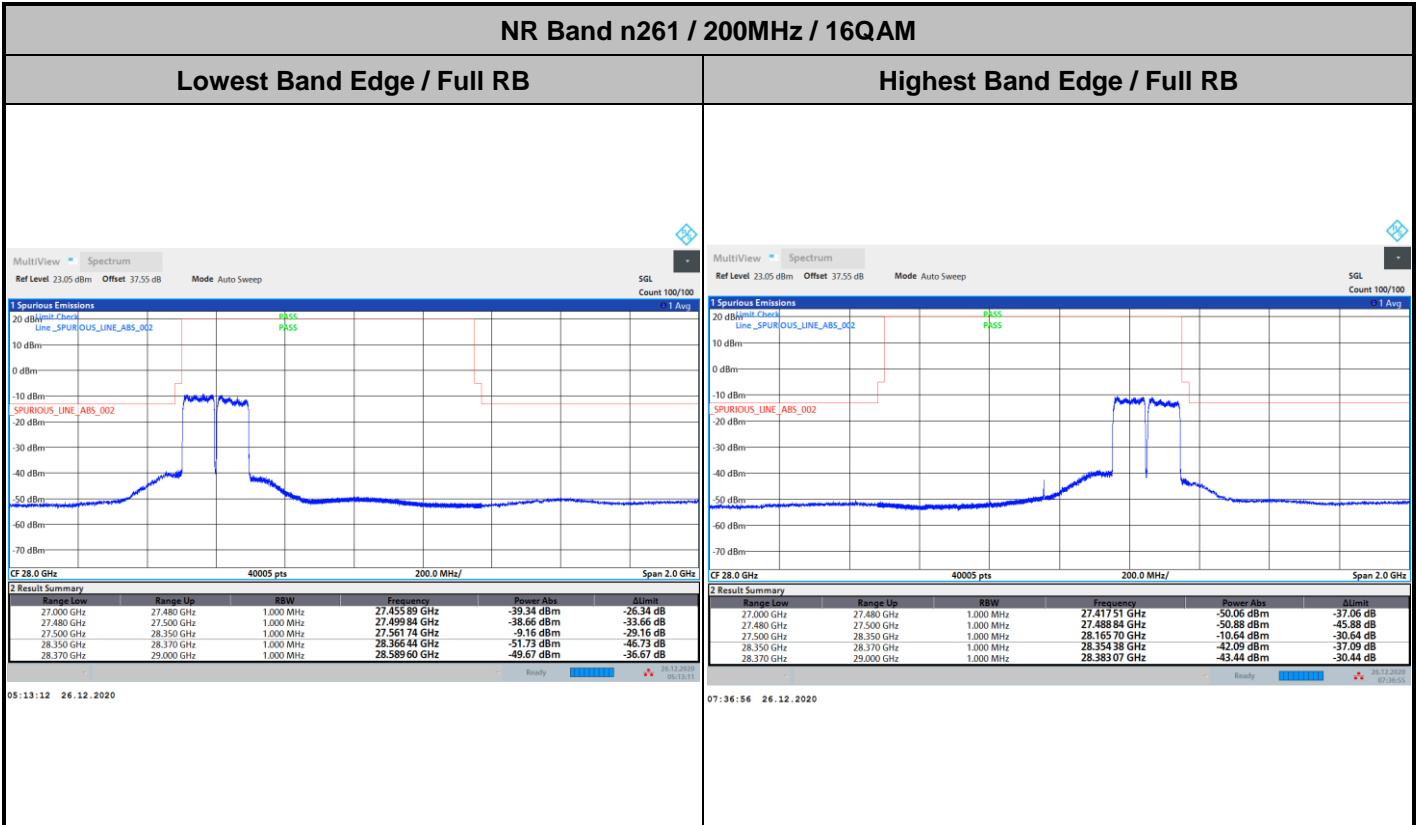


DFT-s-OFDM Module 1





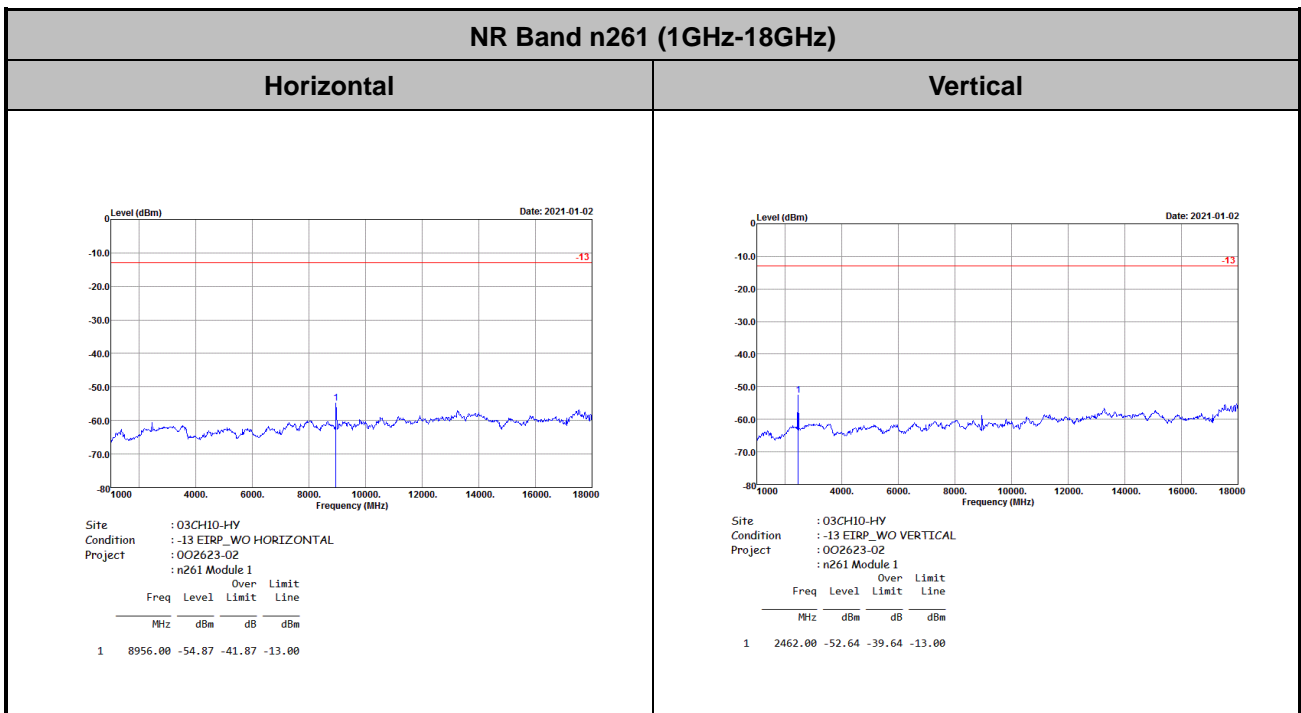
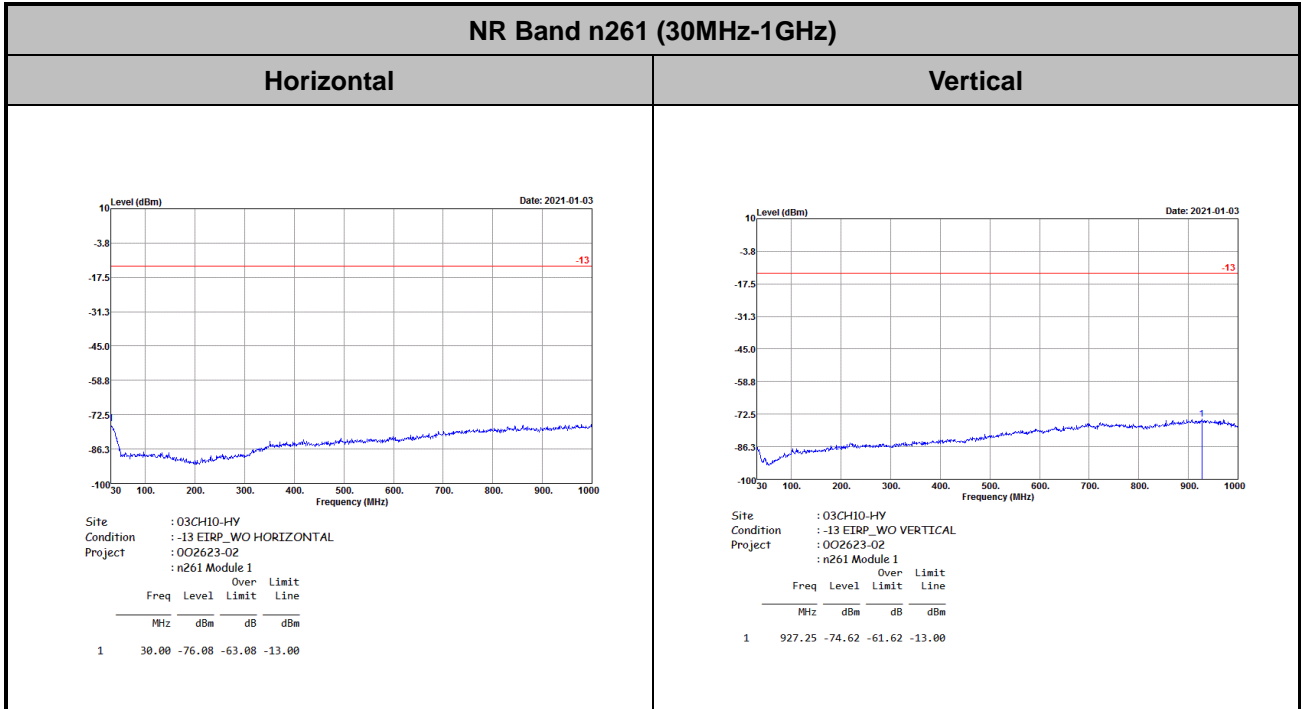
DFT-s-OFDM Module 1





Spurious Emission

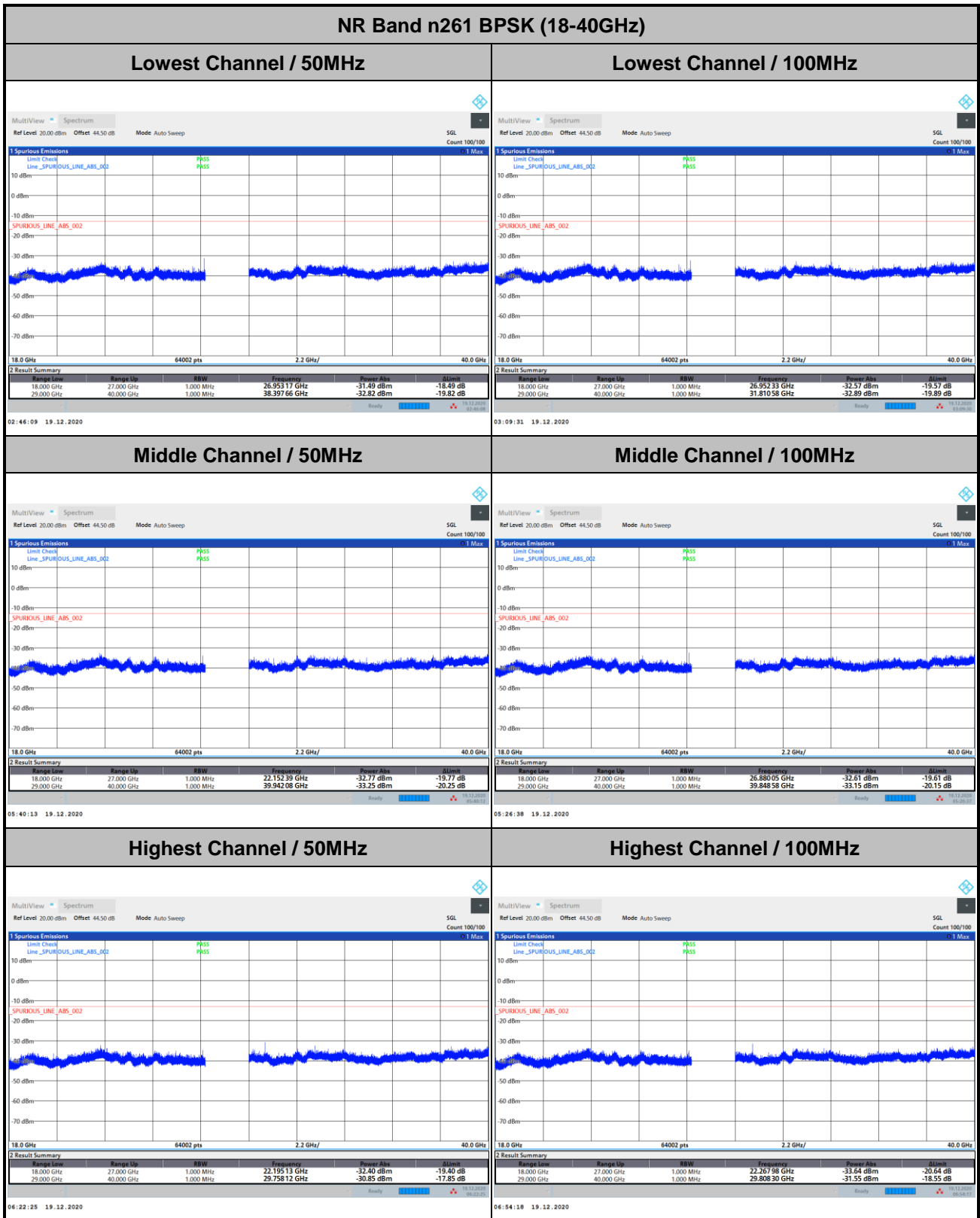
There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.
Only the noise floor is reported.





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.



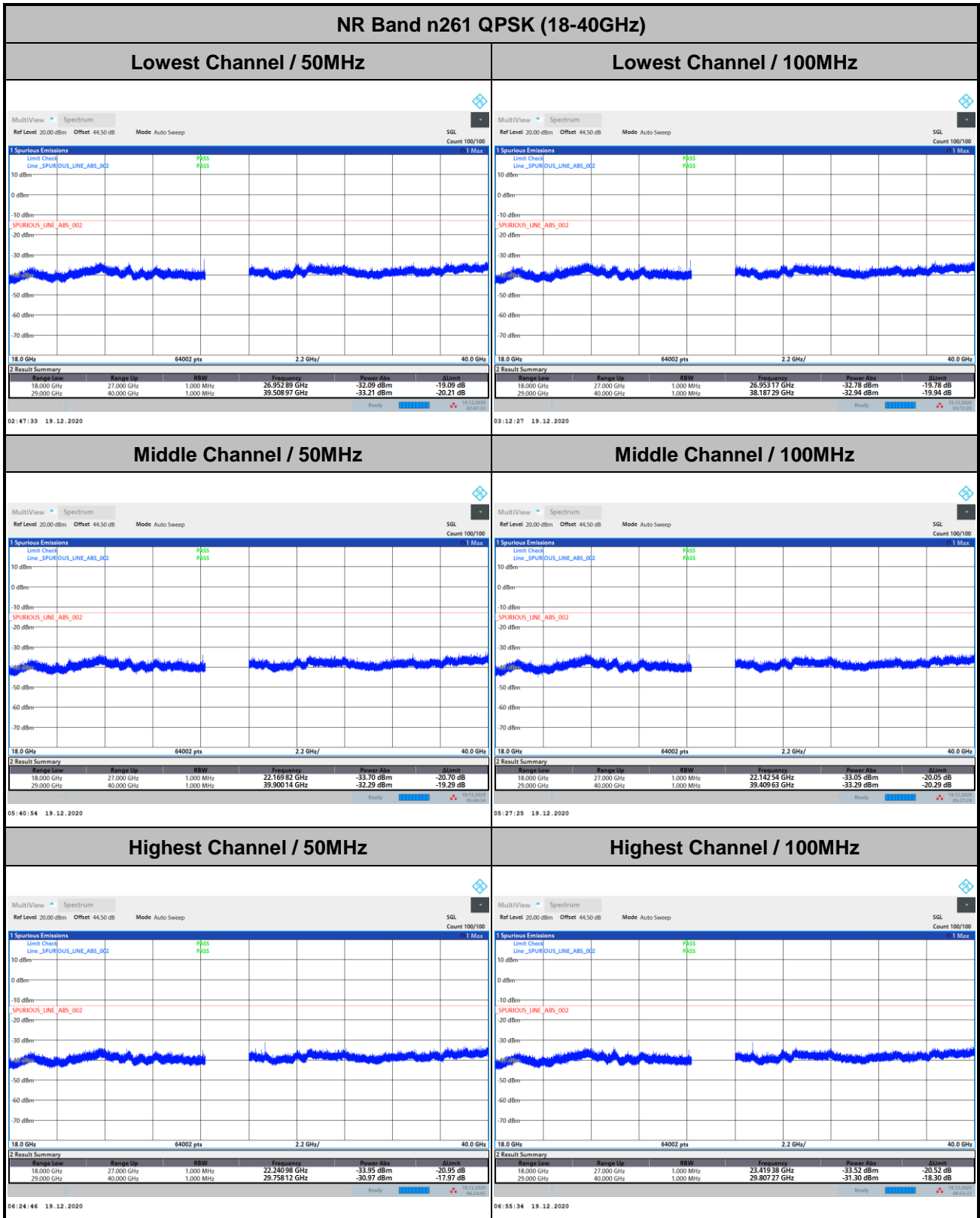
AG0 DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)							
<p>Lowest Channel / 200MHz</p> <table border="1"> <thead> <tr> <th>Line Check</th> <th>Spur</th> </tr> </thead> <tbody> <tr> <td>Line_SPURIOUS_LINE_ABS_002</td> <td>PASS</td> </tr> <tr> <td>SPURIOUS_LINE_ABS_002</td> <td>PASS</td> </tr> </tbody> </table> <p>04:03:57 19.12.2020</p>	Line Check	Spur	Line_SPURIOUS_LINE_ABS_002	PASS	SPURIOUS_LINE_ABS_002	PASS	<p>intentionally blank</p>
Line Check	Spur						
Line_SPURIOUS_LINE_ABS_002	PASS						
SPURIOUS_LINE_ABS_002	PASS						
<p>Middle Channel / 200MHz</p> <table border="1"> <thead> <tr> <th>Line Check</th> <th>Spur</th> </tr> </thead> <tbody> <tr> <td>Line_SPURIOUS_LINE_ABS_002</td> <td>PASS</td> </tr> <tr> <td>SPURIOUS_LINE_ABS_002</td> <td>PASS</td> </tr> </tbody> </table> <p>05:48:39 19.12.2020</p>	Line Check	Spur	Line_SPURIOUS_LINE_ABS_002	PASS	SPURIOUS_LINE_ABS_002	PASS	<p>intentionally blank</p>
Line Check	Spur						
Line_SPURIOUS_LINE_ABS_002	PASS						
SPURIOUS_LINE_ABS_002	PASS						
<p>Highest Channel / 200MHz</p> <table border="1"> <thead> <tr> <th>Line Check</th> <th>Spur</th> </tr> </thead> <tbody> <tr> <td>Line_SPURIOUS_LINE_ABS_002</td> <td>PASS</td> </tr> <tr> <td>SPURIOUS_LINE_ABS_002</td> <td>PASS</td> </tr> </tbody> </table> <p>03:02:34 22.12.2020</p>	Line Check	Spur	Line_SPURIOUS_LINE_ABS_002	PASS	SPURIOUS_LINE_ABS_002	PASS	<p>intentionally blank</p>
Line Check	Spur						
Line_SPURIOUS_LINE_ABS_002	PASS						
SPURIOUS_LINE_ABS_002	PASS						

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

NR Band n261 QPSK (18-40GHz)																			
<p>Lowest Channel / 200MHz</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>dlm</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>22,185 29 GHz</td> <td>-33.87 dBm</td> <td>-20.87 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>37,506 24 GHz</td> <td>-32.61 dBm</td> <td>-19.61 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs.	dlm	18,000 GHz	27,000 GHz	1,000 MHz	22,185 29 GHz	-33.87 dBm	-20.87 dB	29,000 GHz	40,000 GHz	1,000 MHz	37,506 24 GHz	-32.61 dBm	-19.61 dB	<p>intentionally blank</p>
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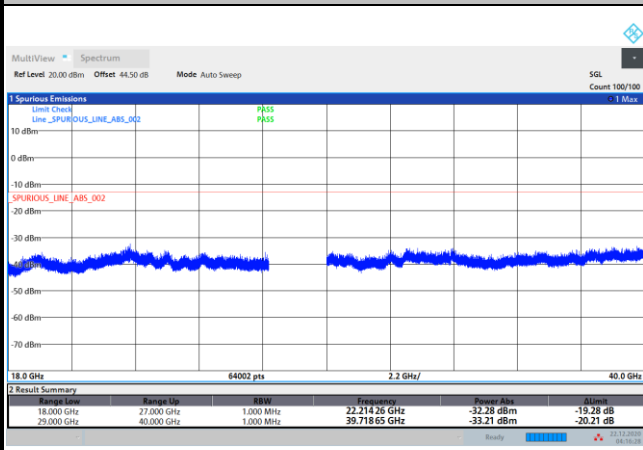
Remark: In band and out of band frequencies are omitted.



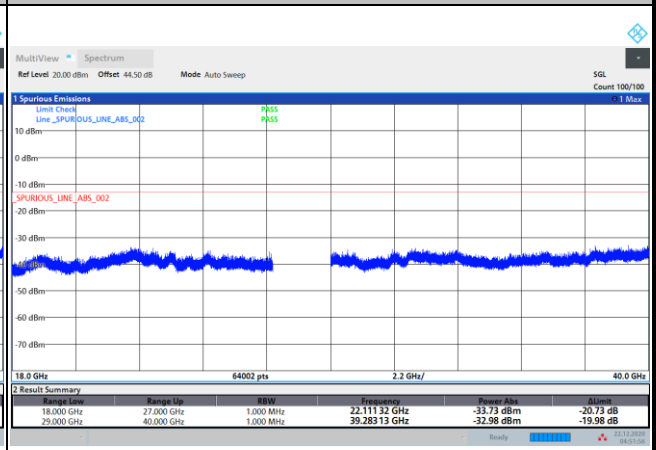
AG1 DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)

Lowest Channel / 50MHz



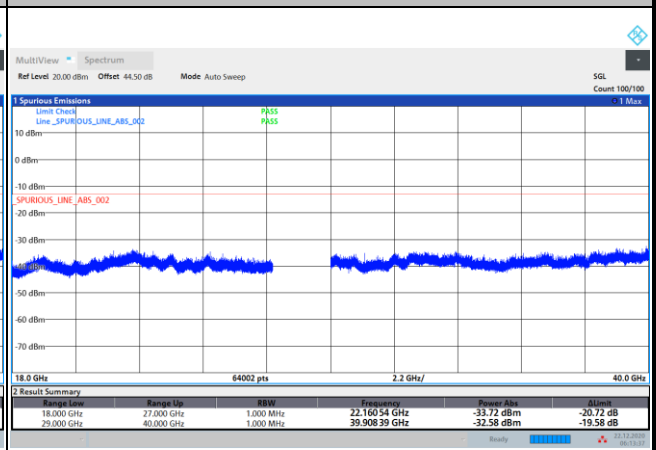
Lowest Channel / 100MHz



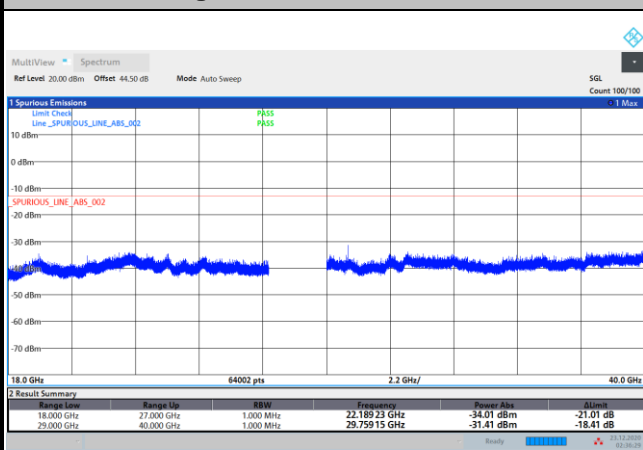
Middle Channel / 50MHz



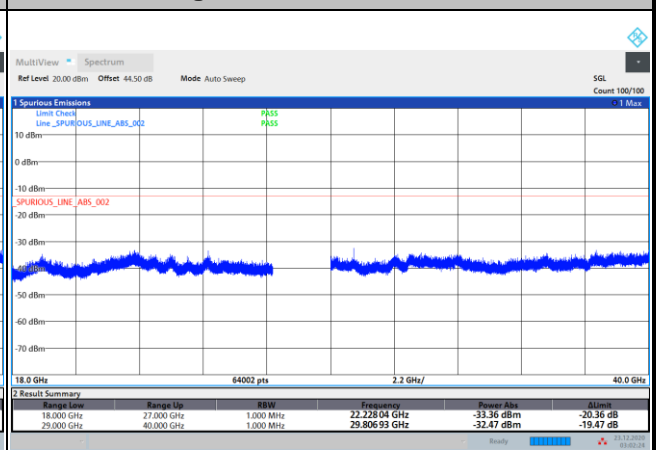
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



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



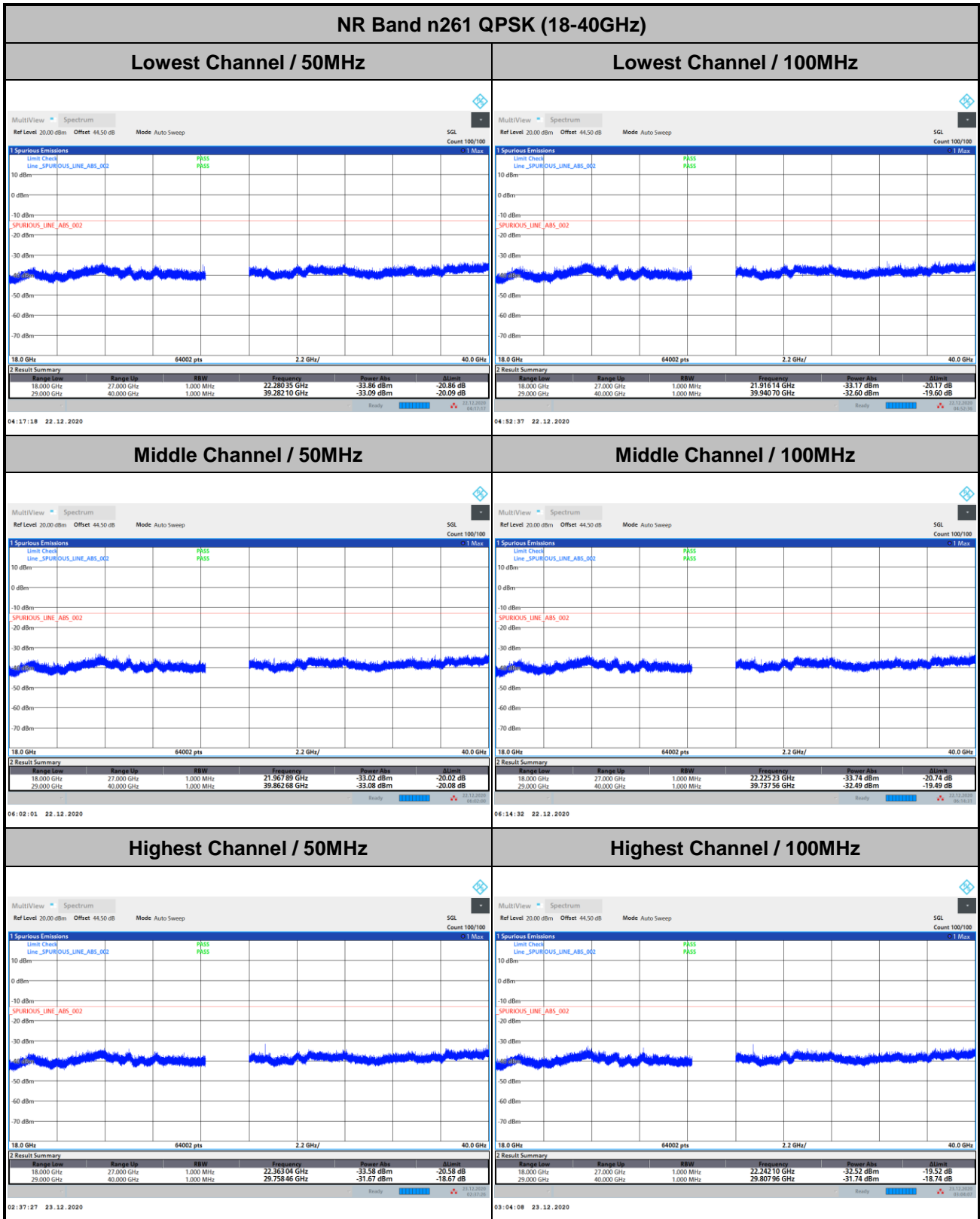
AG1 DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)																			
<p>Lowest Channel / 200MHz</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>22,338 85 GHz</td> <td>-33.47 dBm</td> <td>-20.47 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>38,160 48 GHz</td> <td>-32.95 dBm</td> <td>-19.95 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	22,338 85 GHz	-33.47 dBm	-20.47 dB	29,000 GHz	40,000 GHz	1,000 MHz	38,160 48 GHz	-32.95 dBm	-19.95 dB	<p>intentionally blank</p>
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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

NR Band n261 QPSK (18-40GHz)																			
<p>Lowest Channel / 200MHz</p> <p>MultiView Spectrum Ref Level 20.00 dBm Offset 44.50 dB Mode Auto Sweep SGL Count 100/100</p> <p>Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_002 PASS SPURIOUS_LINE_ABS_002</p> <p>18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>22,134 95 GHz</td> <td>-33.02 dBm</td> <td>-20.02 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>39,995 70 GHz</td> <td>-32.18 dBm</td> <td>-20.18 dB</td> </tr> </tbody> </table> <p>05:32:33 22.12.2020</p>	Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	22,134 95 GHz	-33.02 dBm	-20.02 dB	29,000 GHz	40,000 GHz	1,000 MHz	39,995 70 GHz	-32.18 dBm	-20.18 dB	<p>intentionally blank</p>
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<p>Highest Channel / 200MHz</p> <p>MultiView Spectrum Ref Level 20.00 dBm Offset 44.50 dB Mode Auto Sweep SGL Count 100/100</p> <p>Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_002 PASS SPURIOUS_LINE_ABS_002</p> <p>18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs.</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>18,000 GHz</td> <td>27,000 GHz</td> <td>1,000 MHz</td> <td>22,289 35 GHz</td> <td>-34.02 dBm</td> <td>-21.02 dB</td> </tr> <tr> <td>29,000 GHz</td> <td>40,000 GHz</td> <td>1,000 MHz</td> <td>39,911 14 GHz</td> <td>-32.20 dBm</td> <td>-20.20 dB</td> </tr> </tbody> </table> <p>03:52:02 23.12.2020</p>	Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	22,289 35 GHz	-34.02 dBm	-21.02 dB	29,000 GHz	40,000 GHz	1,000 MHz	39,911 14 GHz	-32.20 dBm	-20.20 dB	<p>intentionally blank</p>
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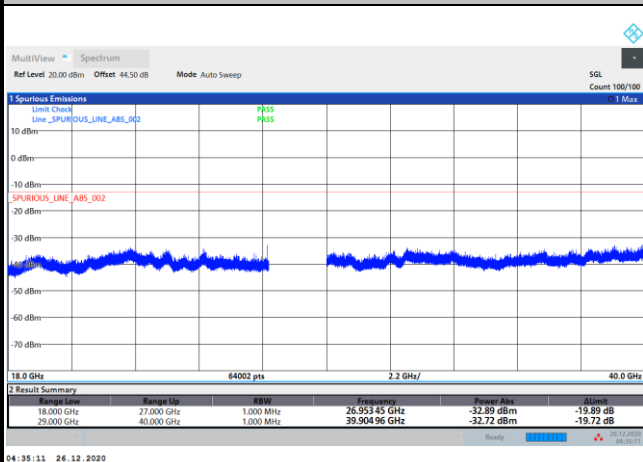
Remark: In band and out of band frequencies are omitted.



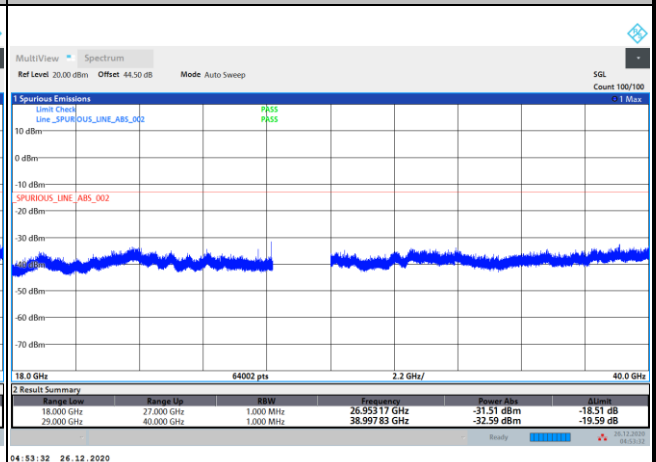
AG0+1 DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)

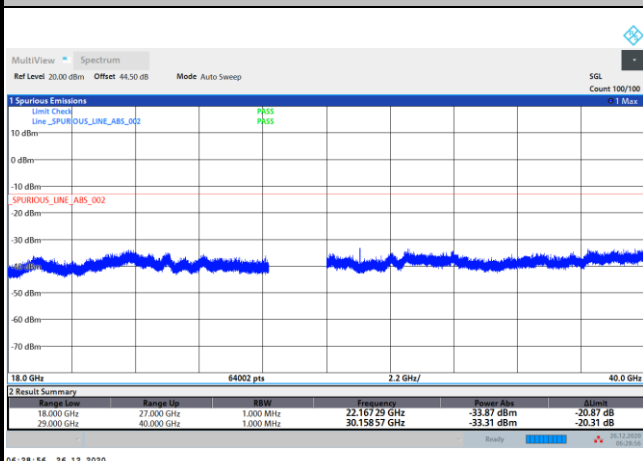
Lowest Channel / 50MHz



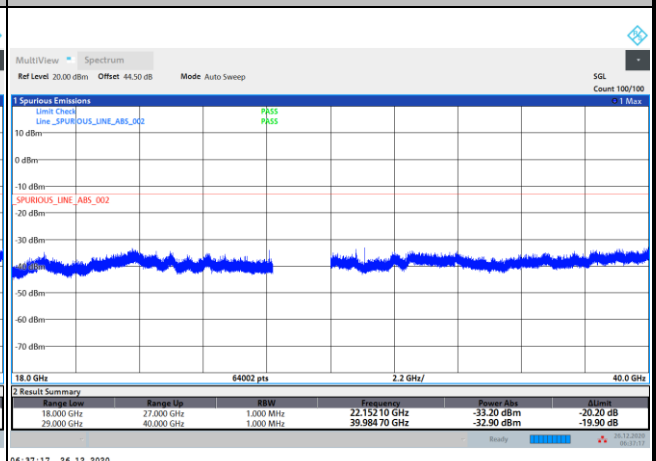
Lowest Channel / 100MHz



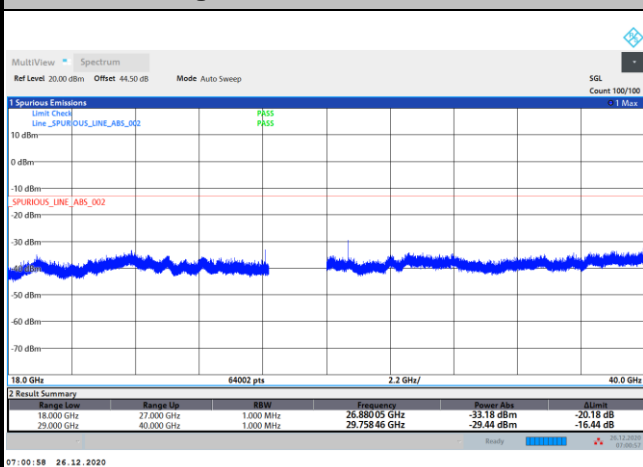
Middle Channel / 50MHz



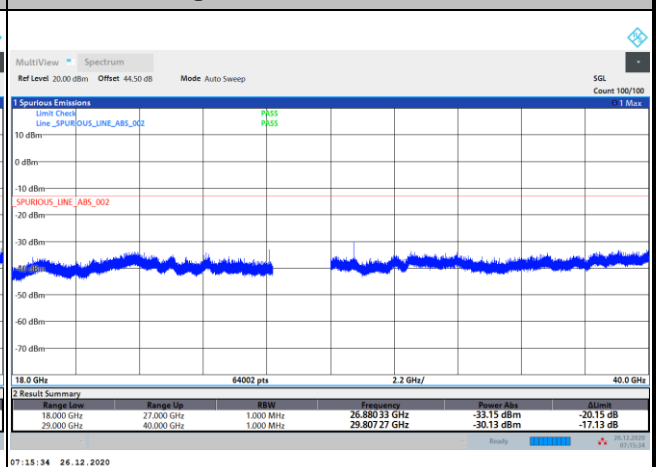
Middle Channel / 100MHz



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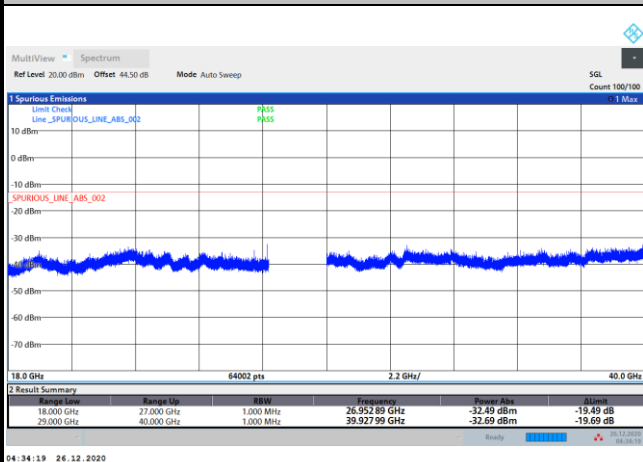
Remark: In band and out of band frequencies are omitted.



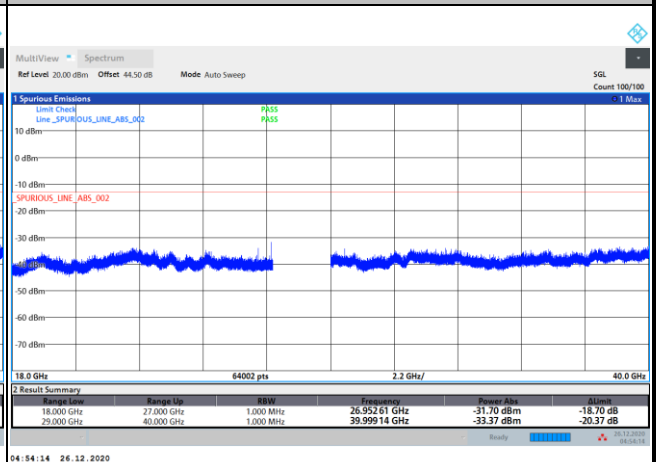
AG0+1 DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



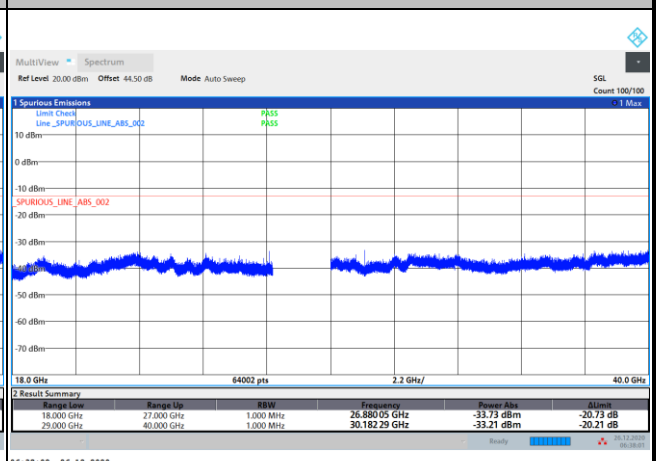
Lowest Channel / 100MHz



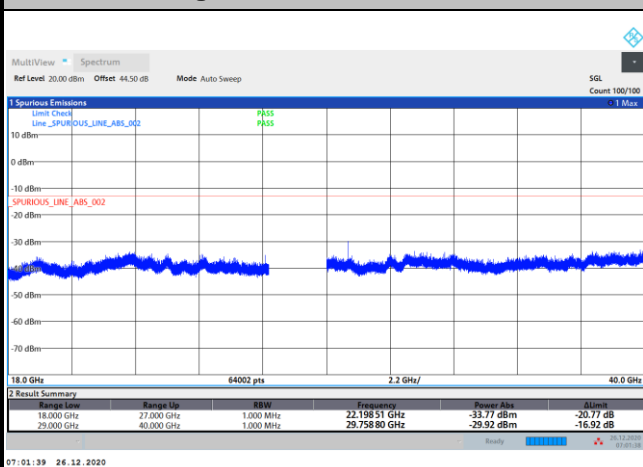
Middle Channel / 50MHz



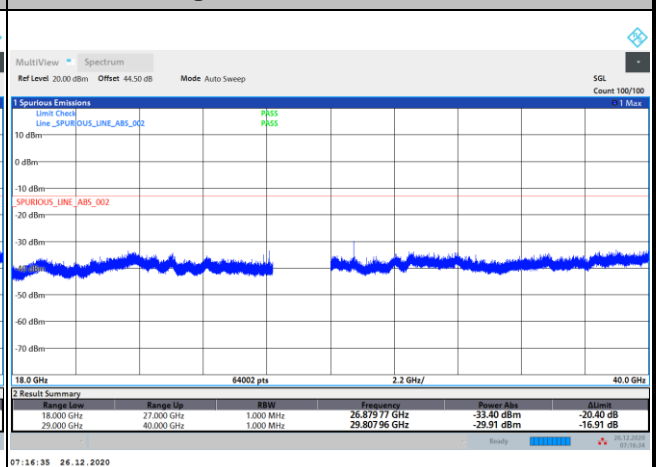
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



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



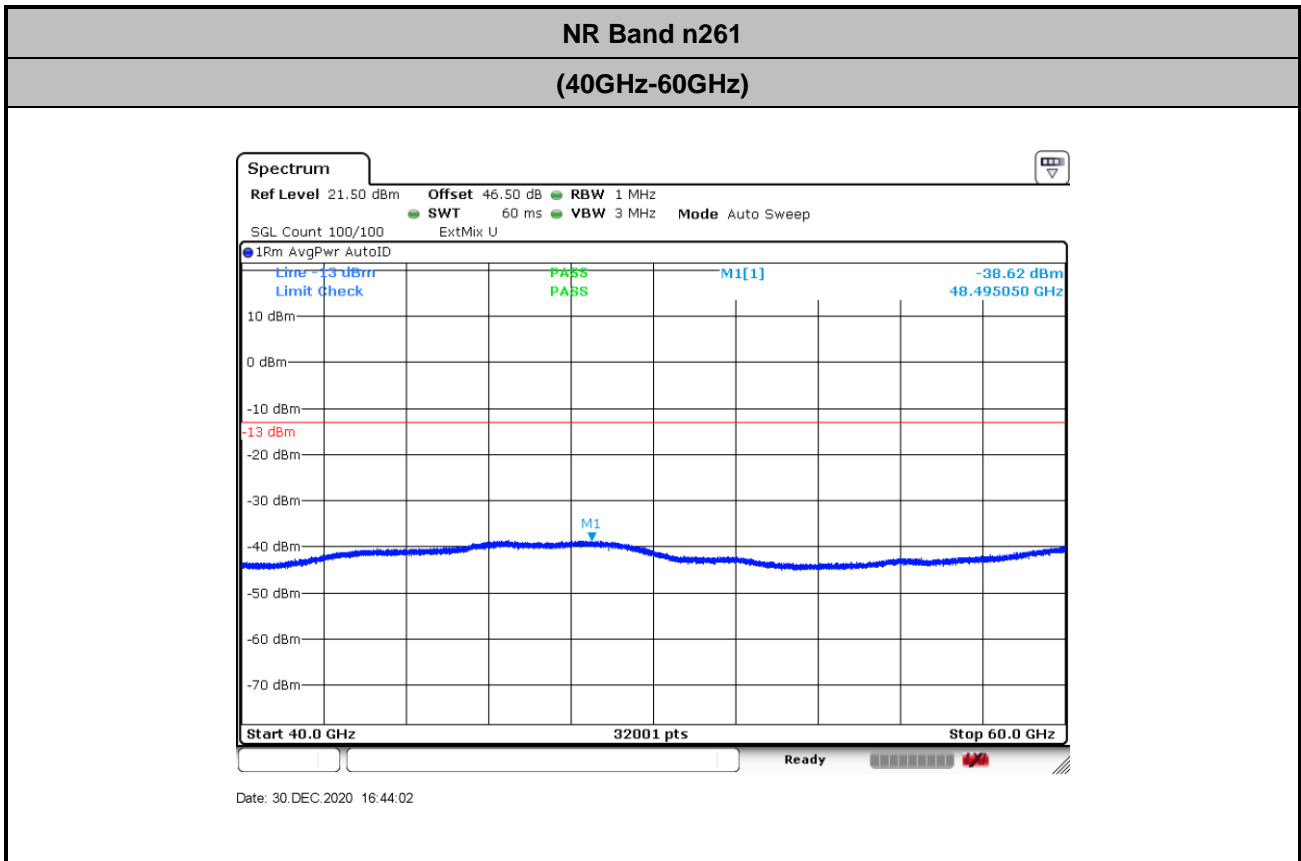
AG0+1 DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)																
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Spurious	-20	dBm	-32.42	PASS												
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Spurious	-20	dBm	-33.09	PASS												

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.

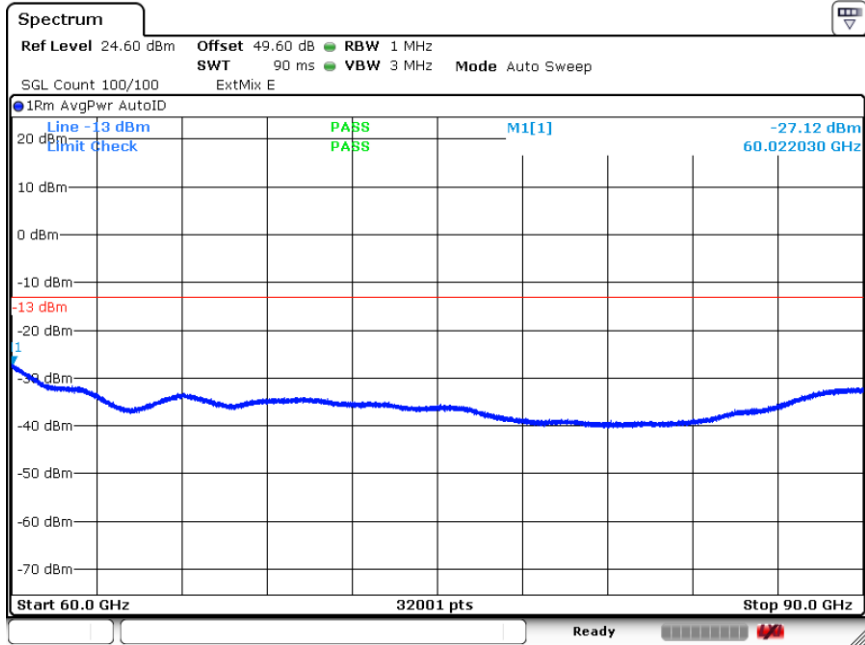


Remark: $Offset = Antenna\ Factor\ (dB/m) + Cable\ Loss\ (dB) + 107 + 20\log(D) - 104.8$
 $= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5\ (dB)$



NR Band n261

(60GHz-90GHz)



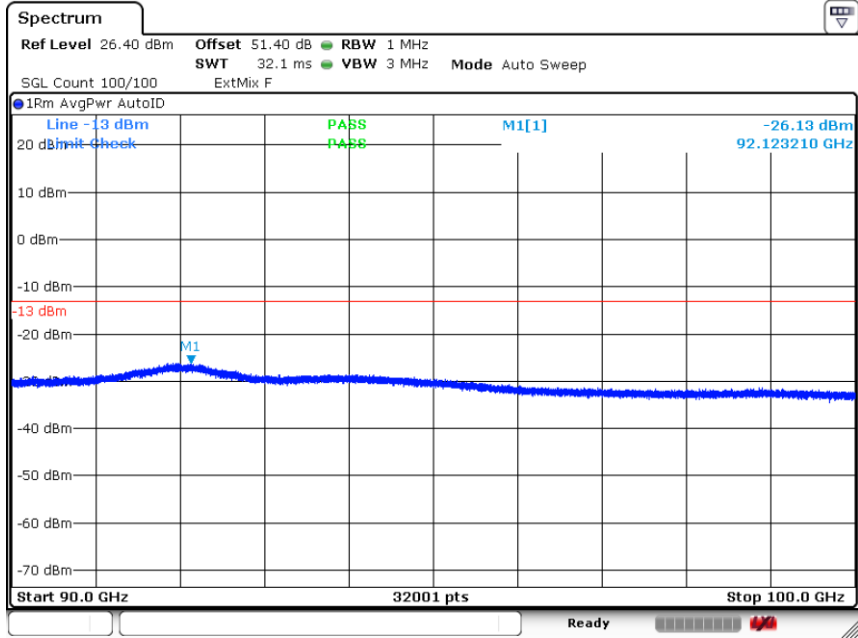
Date: 30.DEC.2020 17:13:02

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



NR Band n261

(90GHz-100GHz)



Date: 30.DEC.2020 17:30:17

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



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