

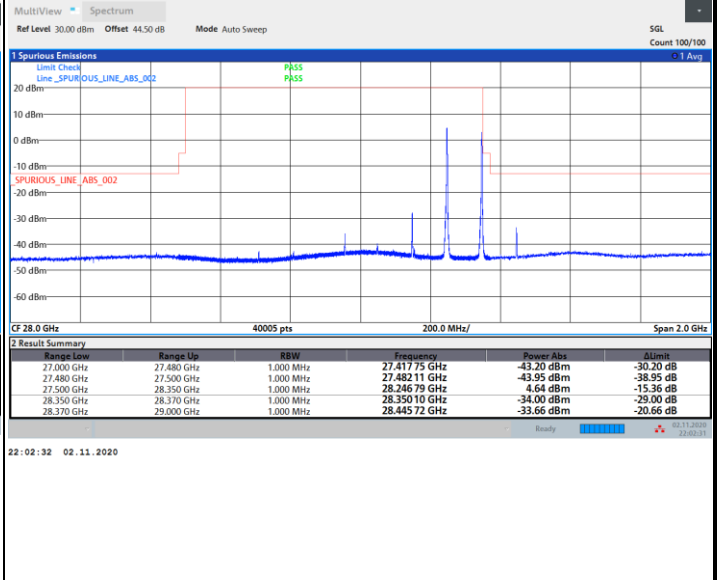
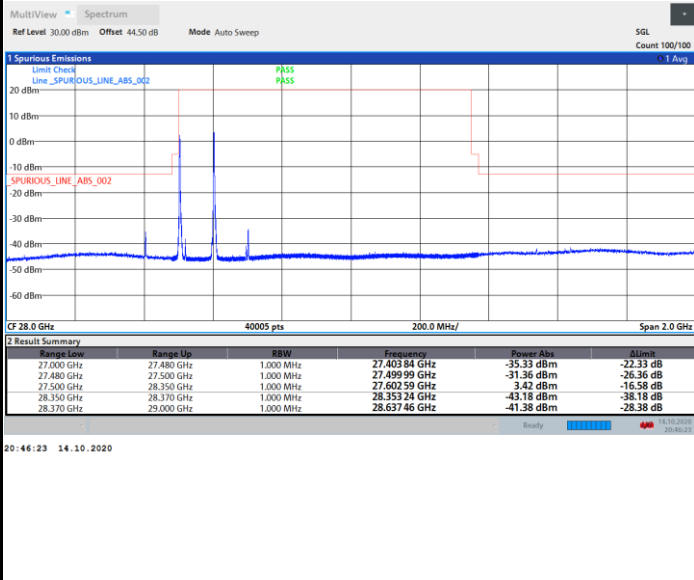


CP-OFDM Module 1

NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

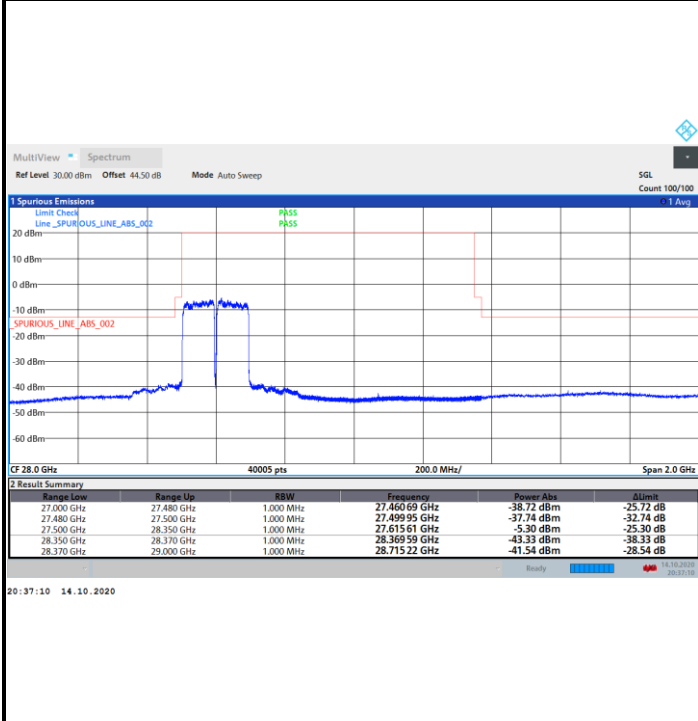




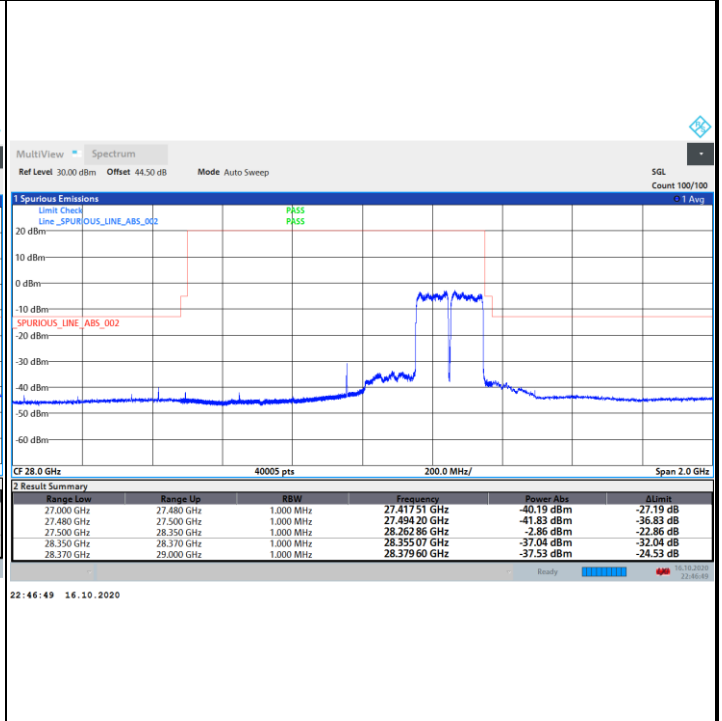
DFT-s-OFDM Module 1

NR Band n261 / 200MHz / BPSK

Lowest Band Edge / Full RB

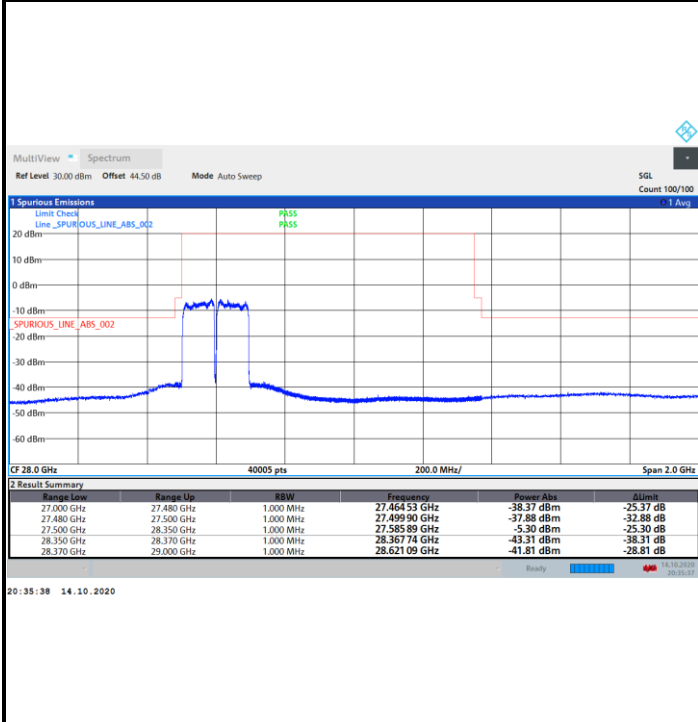


Highest Band Edge / Full RB

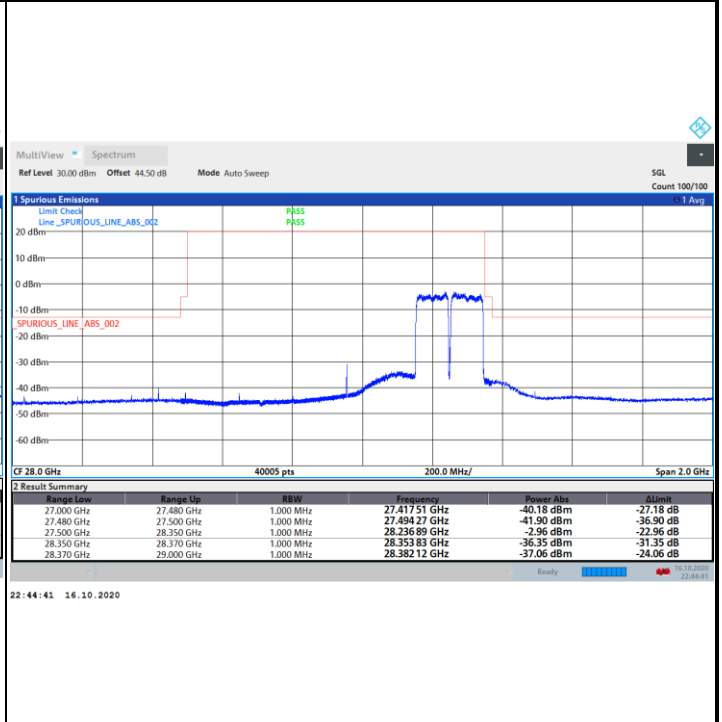


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB

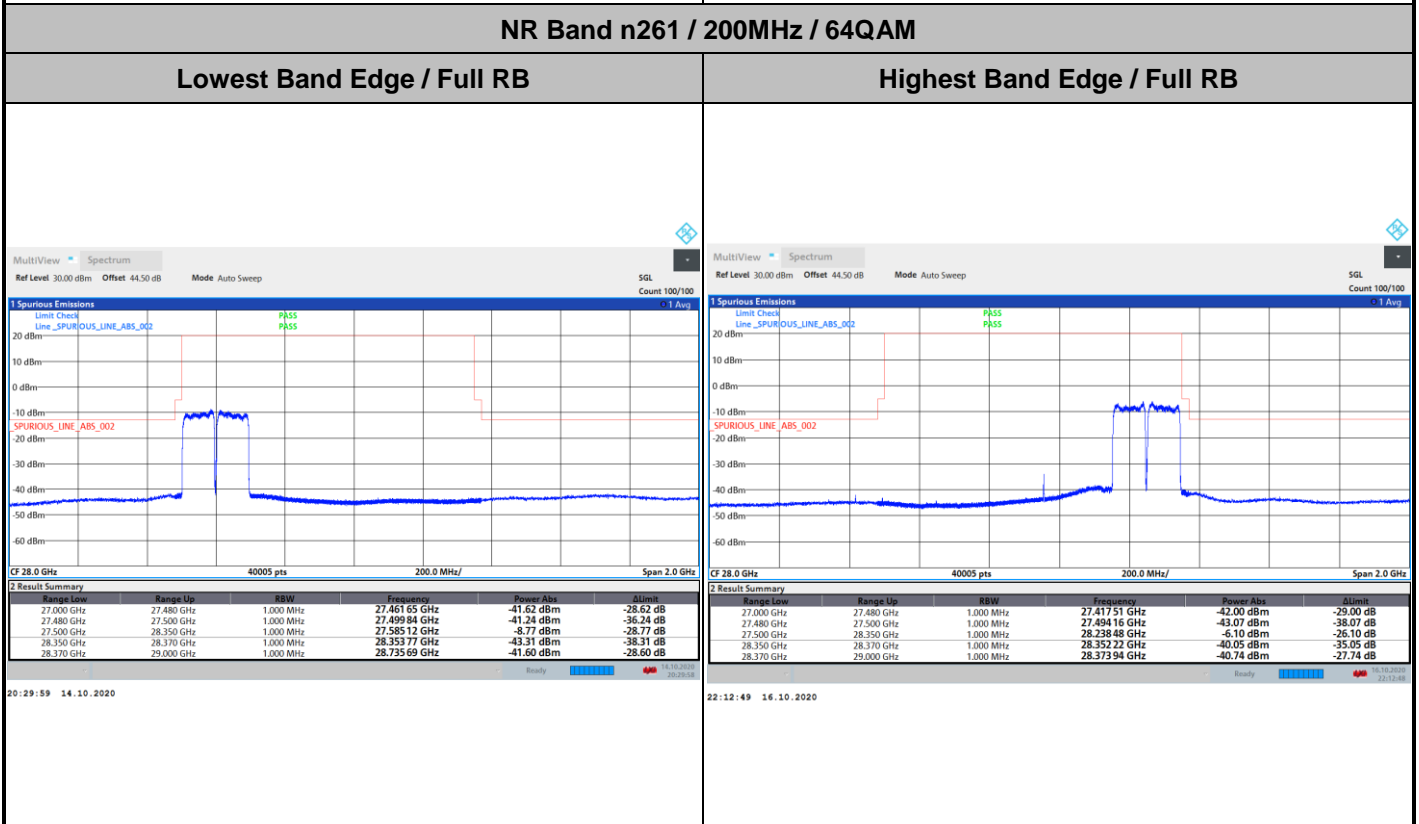
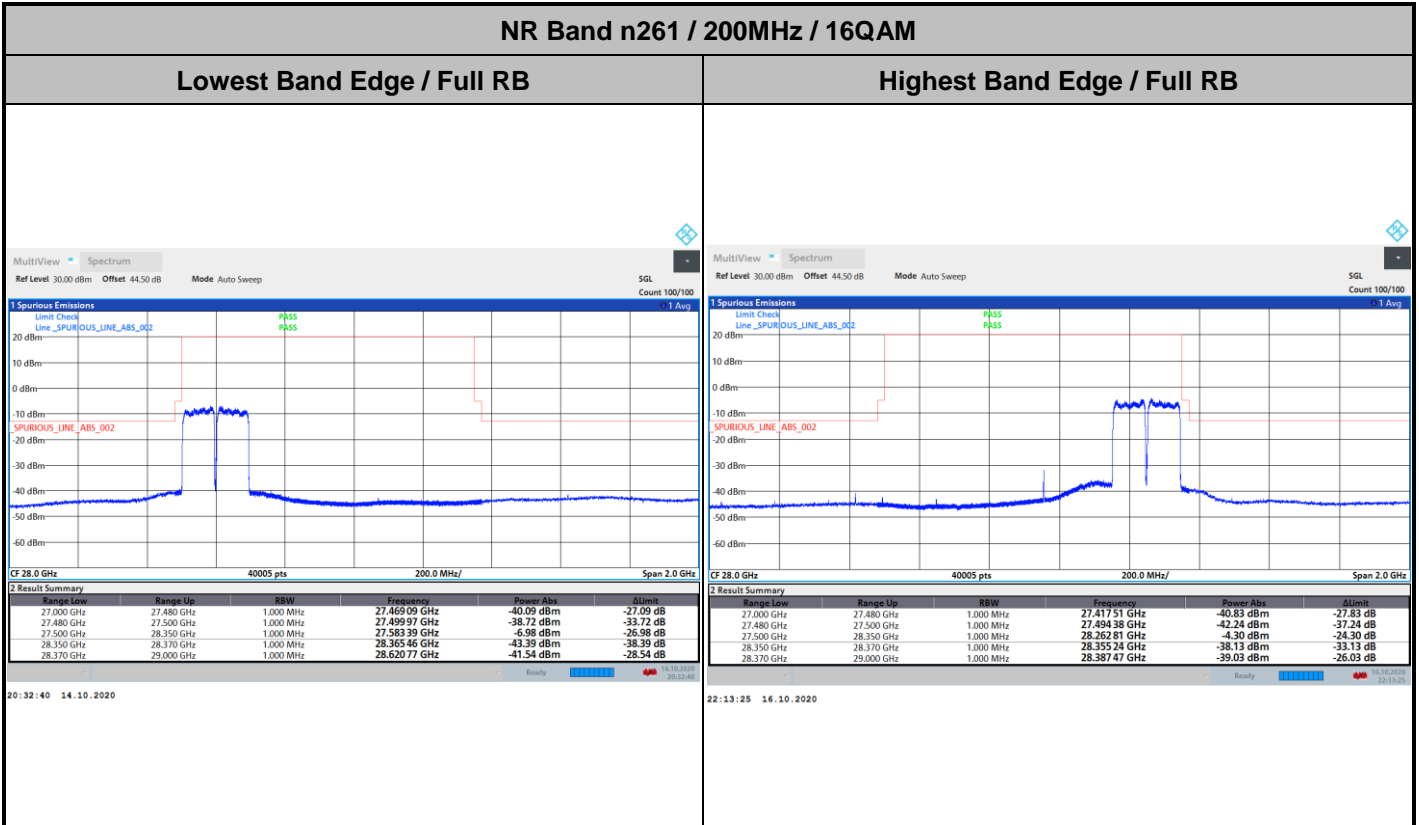


Highest Band Edge / Full RB



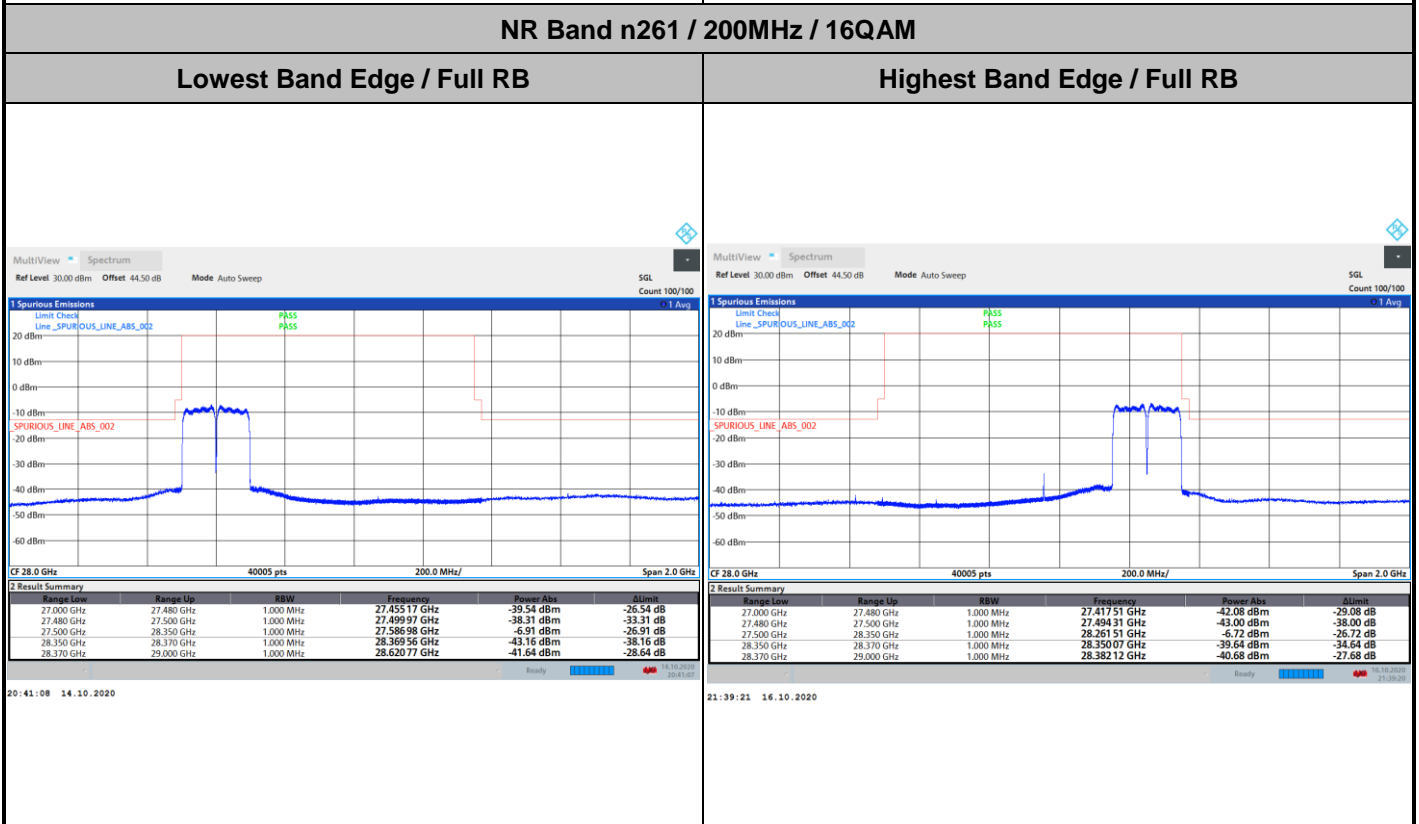
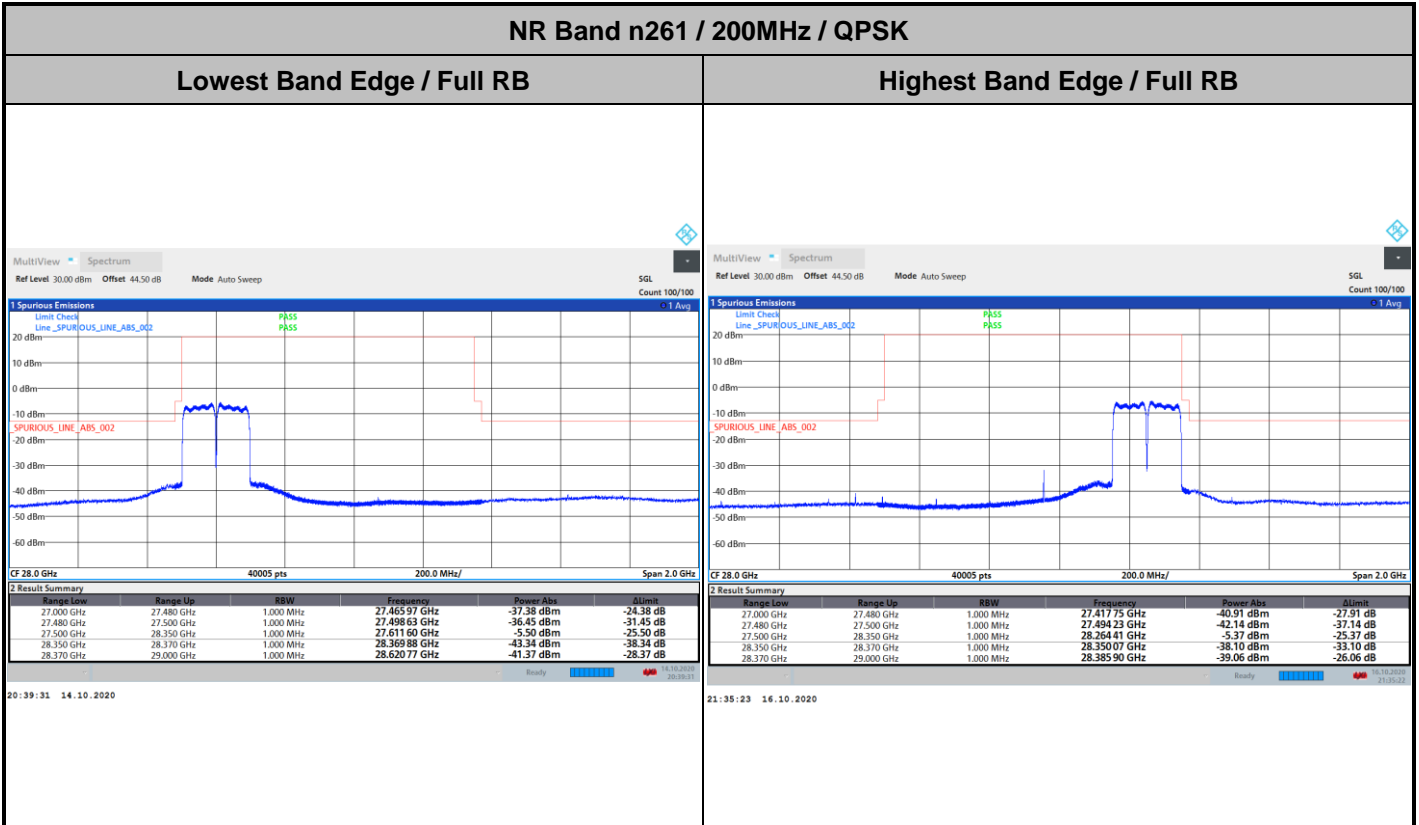


DFT-s-OFDM Module 1



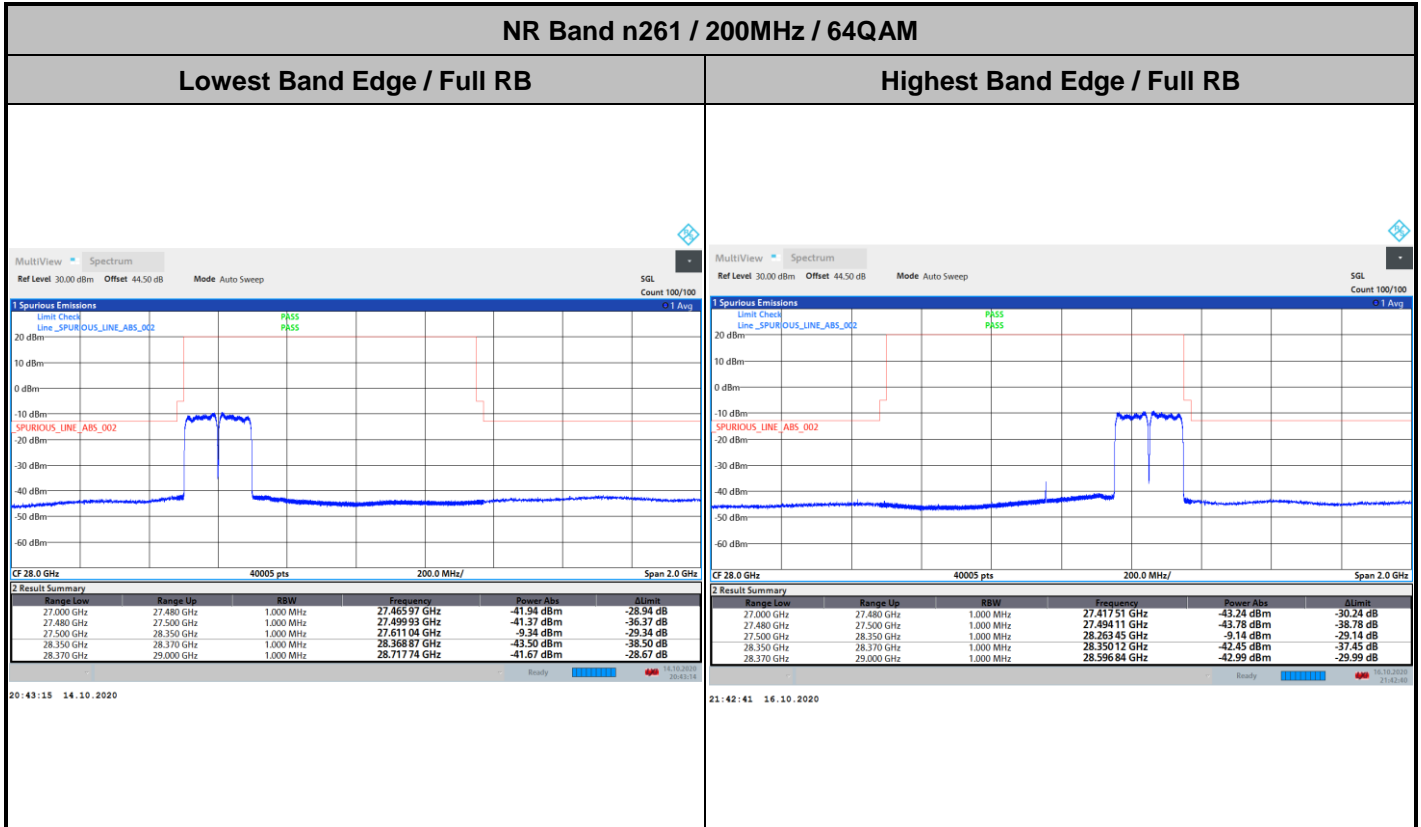


CP-OFDM Module 1





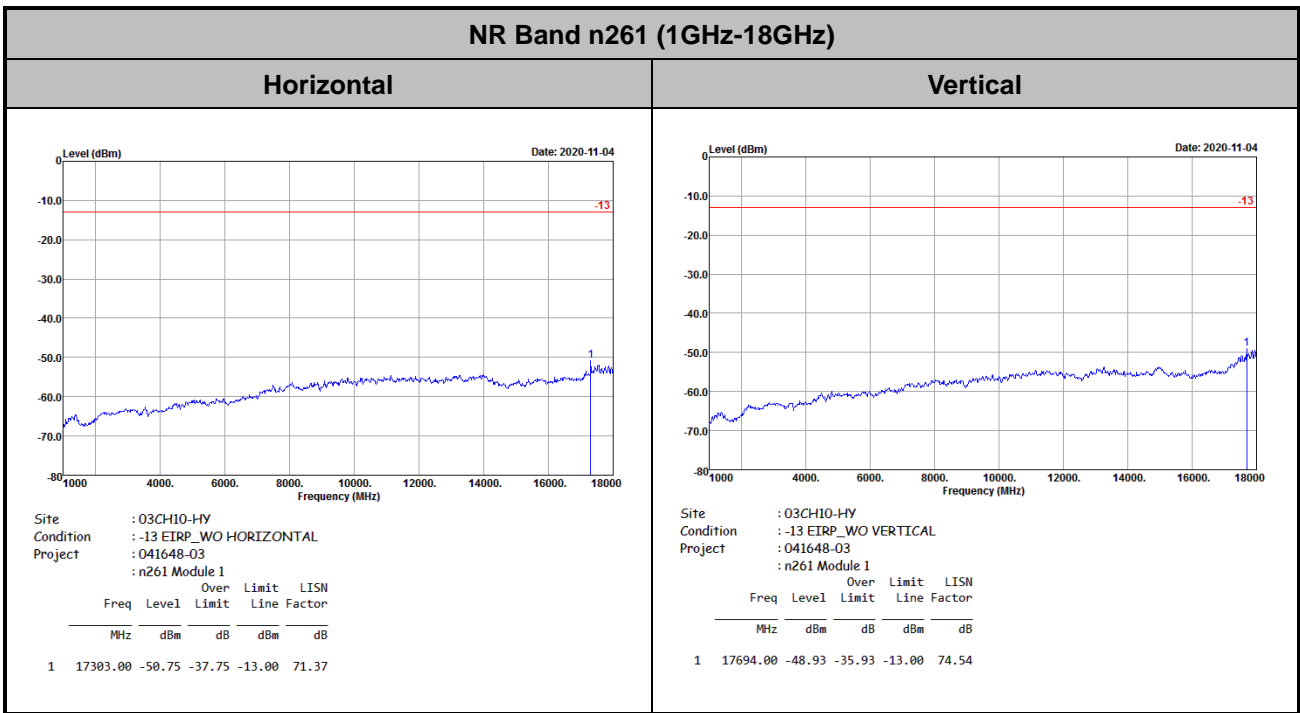
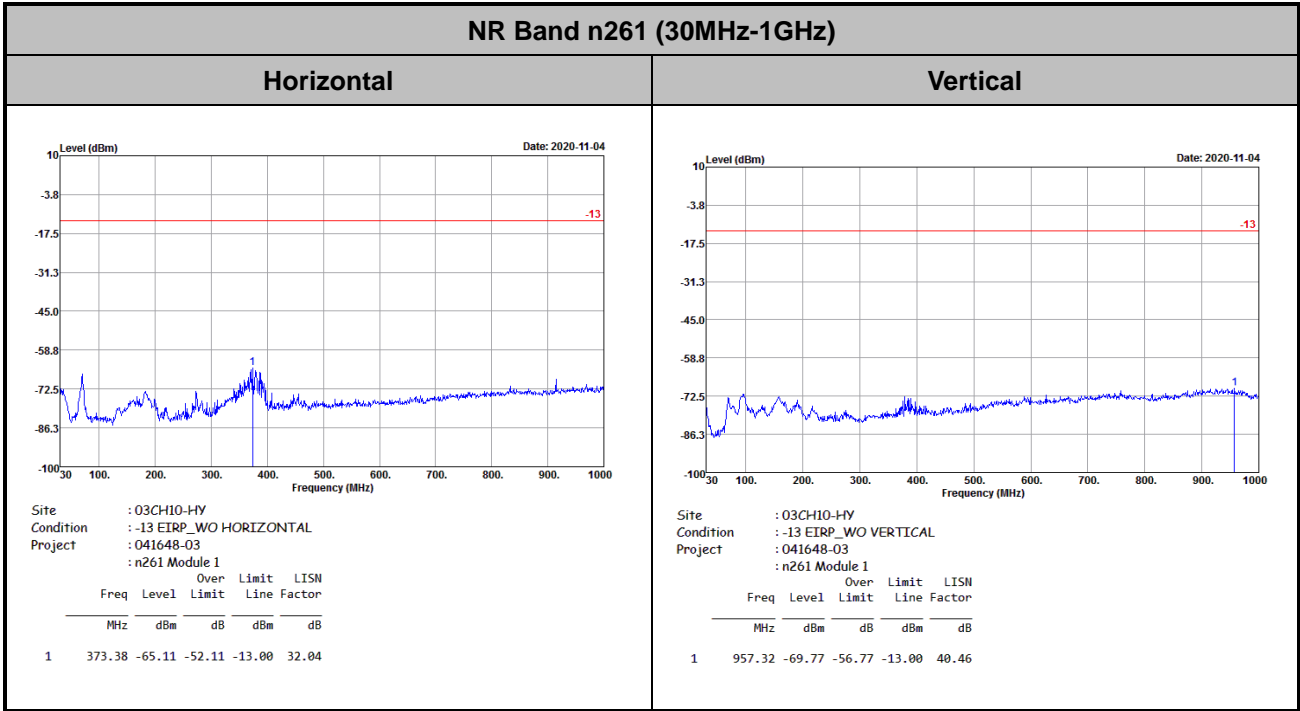
CP-OFDM Module 1





Spurious Emission

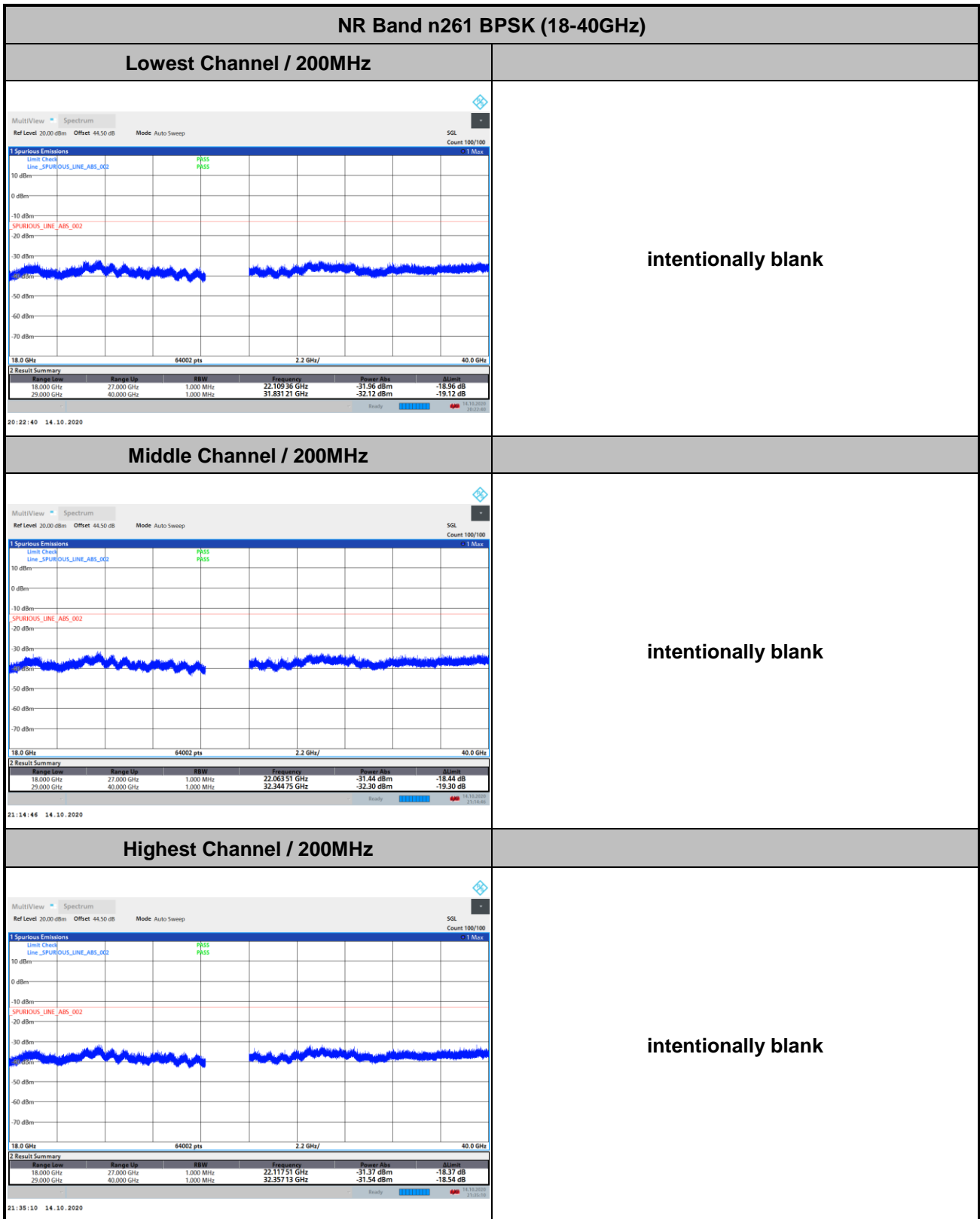
There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz. Only the noise floor is reported.





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

DFT-s-OFDM Module 1





DFT-s-OFDM Module 1

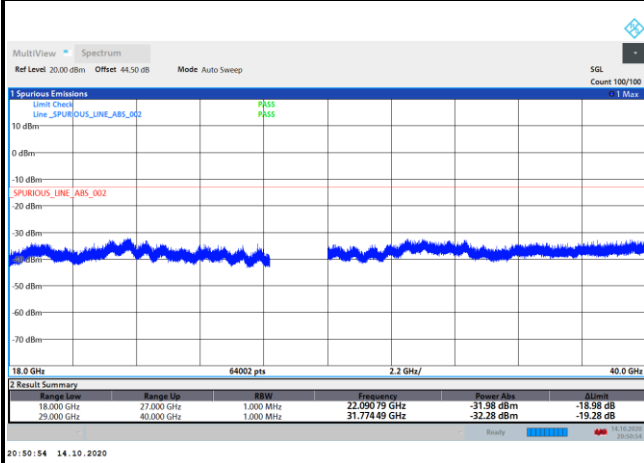
NR Band n261 QPSK (18-40GHz)																													
<p>Lowest Channel / 200MHz</p> <table border="1"><caption>Spurious Emissions</caption><thead><tr><th>Line</th><th>Channel</th><th>Line</th><th>Channel</th><th>Pass</th></tr></thead><tbody><tr><td>Line_SPURIOUS_LINE_ABS_002</td><td></td><td>PASS</td><td>PASS</td><td></td></tr></tbody></table> <table border="1"><caption>Result Summary</caption><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>22,139 45 GHz</td><td>-31.75 dBm</td><td>-18.75 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>31,761 09 GHz</td><td>-32.34 dBm</td><td>-19.34 dB</td></tr></tbody></table> <p>20:25:10 14.10.2020</p>	Line	Channel	Line	Channel	Pass	Line_SPURIOUS_LINE_ABS_002		PASS	PASS		Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	22,139 45 GHz	-31.75 dBm	-18.75 dB	29,000 GHz	40,000 GHz	1,000 MHz	31,761 09 GHz	-32.34 dBm	-19.34 dB	<p>intentionally blank</p>
Line	Channel	Line	Channel	Pass																									
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<p>Middle Channel / 200MHz</p> <table border="1"><caption>Spurious Emissions</caption><thead><tr><th>Line</th><th>Channel</th><th>Line</th><th>Channel</th><th>Pass</th></tr></thead><tbody><tr><td>Line_SPURIOUS_LINE_ABS_002</td><td></td><td>PASS</td><td>PASS</td><td></td></tr></tbody></table> <table border="1"><caption>Result Summary</caption><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>22,221 29 GHz</td><td>-32.09 dBm</td><td>-19.09 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>32,369 16 GHz</td><td>-32.05 dBm</td><td>-19.05 dB</td></tr></tbody></table> <p>21:15:53 14.10.2020</p>	Line	Channel	Line	Channel	Pass	Line_SPURIOUS_LINE_ABS_002		PASS	PASS		Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	22,221 29 GHz	-32.09 dBm	-19.09 dB	29,000 GHz	40,000 GHz	1,000 MHz	32,369 16 GHz	-32.05 dBm	-19.05 dB	<p>intentionally blank</p>
Line	Channel	Line	Channel	Pass																									
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<p>Highest Channel / 200MHz</p> <table border="1"><caption>Spurious Emissions</caption><thead><tr><th>Line</th><th>Channel</th><th>Line</th><th>Channel</th><th>Pass</th></tr></thead><tbody><tr><td>Line_SPURIOUS_LINE_ABS_002</td><td></td><td>PASS</td><td>PASS</td><td></td></tr></tbody></table> <table border="1"><caption>Result Summary</caption><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>22,144 23 GHz</td><td>-31.49 dBm</td><td>-18.49 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>32,259 10 GHz</td><td>-32.16 dBm</td><td>-19.16 dB</td></tr></tbody></table> <p>21:36:43 14.10.2020</p>	Line	Channel	Line	Channel	Pass	Line_SPURIOUS_LINE_ABS_002		PASS	PASS		Range Low	Range Up	RBW	Frequency	Power Abs.	dBm	18,000 GHz	27,000 GHz	1,000 MHz	22,144 23 GHz	-31.49 dBm	-18.49 dB	29,000 GHz	40,000 GHz	1,000 MHz	32,259 10 GHz	-32.16 dBm	-19.16 dB	<p>intentionally blank</p>
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CP-OFDM Module 1

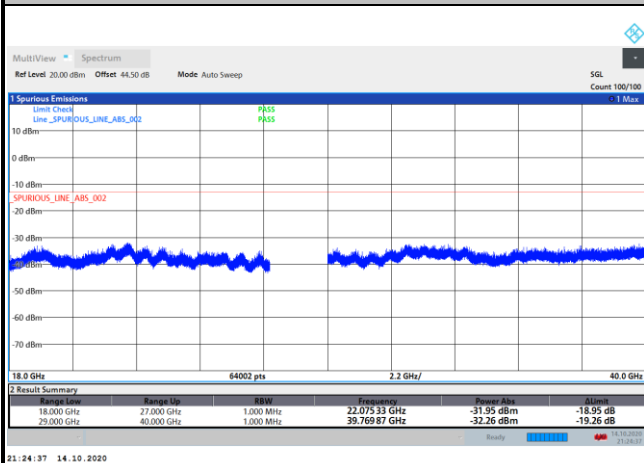
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 200MHz



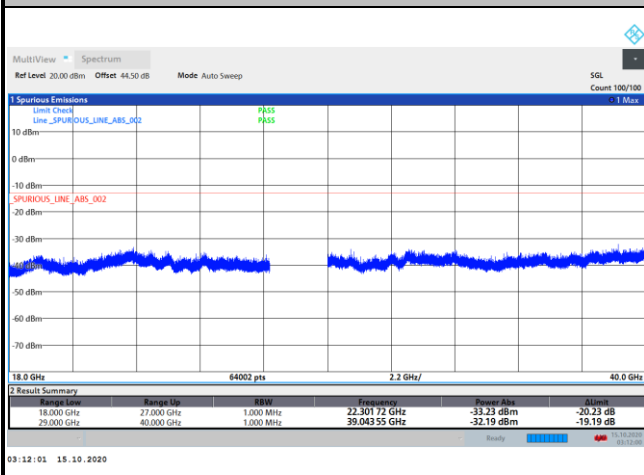
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Middle Channel / 200MHz



intentionally blank

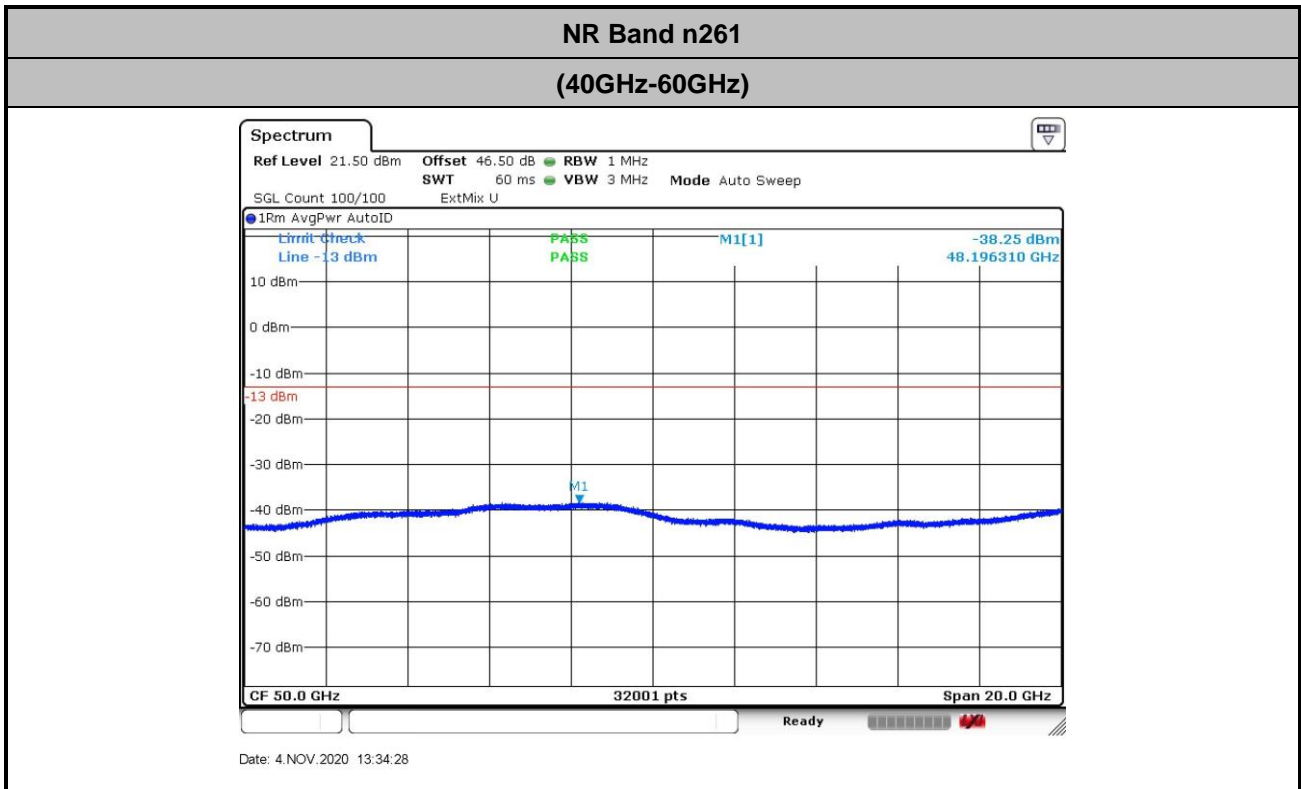
Highest Channel / 200MHz



intentionally blank



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.

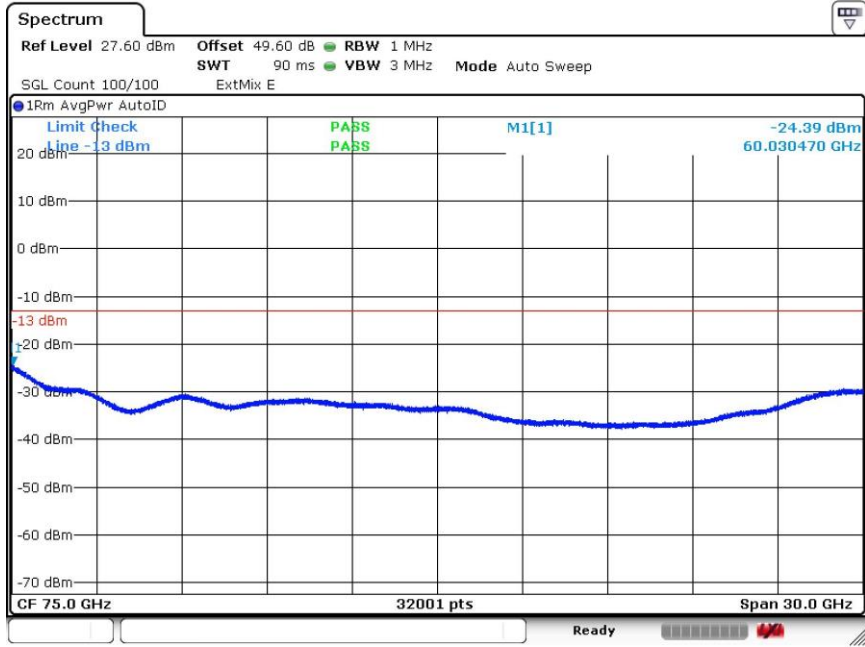


$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\
 &= 42.3 + 2 + 107 + 20\log(1) - 104.8 \\
 &= 46.5 \text{ (dB)}
 \end{aligned}$$



NR Band n261

(60GHz-90GHz)



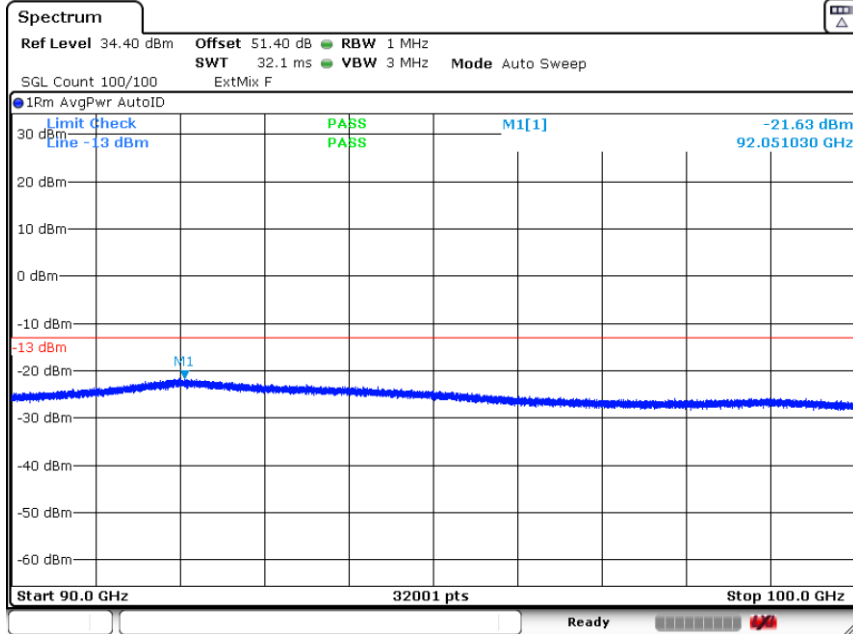
Date: 4.NOV.2020 13:35:29

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



NR Band n261

(90GHz-100GHz)



Date: 5.NOV.2020 20:11:08

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



NR Band n261 Module 1 AG1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)			
BW	200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM
Lowest CH	188.27	188.70	187.99	188.18
Middle CH	187.95	188.50	188.44	188.71
Highest CH	188.54	188.92	188.18	188.44

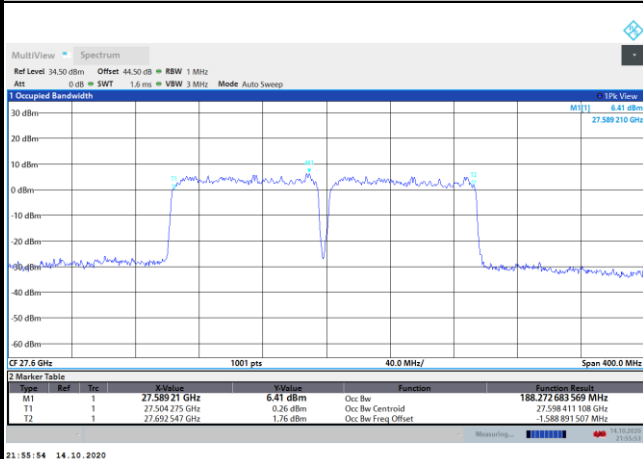
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)		
BW	200MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	190.45	190.21	190.70
Middle CH	190.26	190.25	190.45
Highest CH	190.48	190.53	191.02



DFT-s-OFDM Module 1

NR Band n261

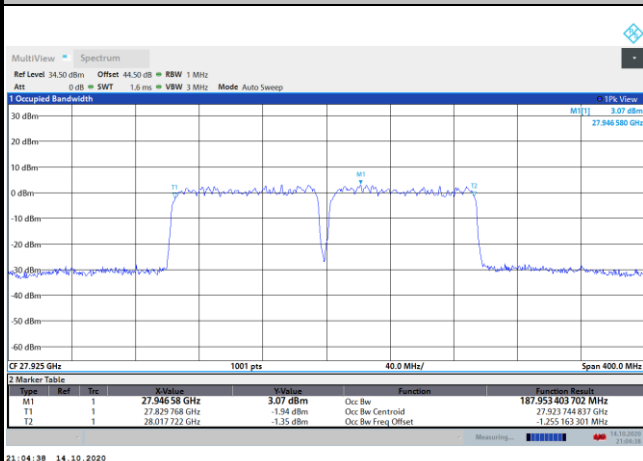
Lowest Channel / 200MHz / BPSK



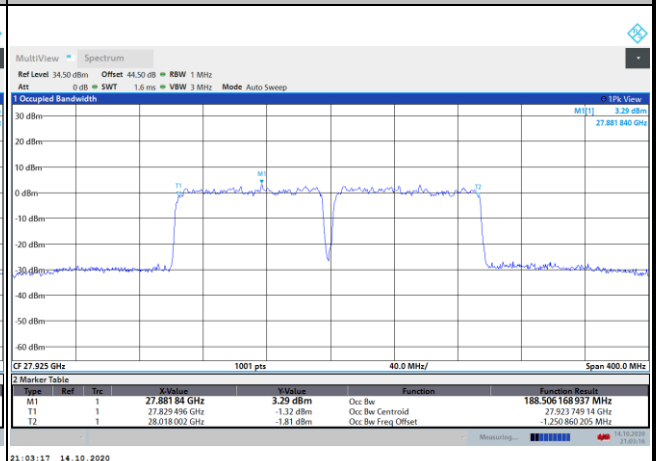
Lowest Channel / 200MHz / QPSK



Middle Channel / 200MHz / BPSK



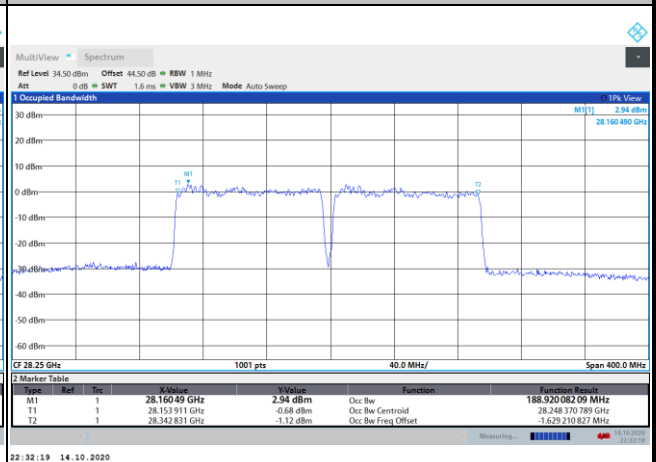
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

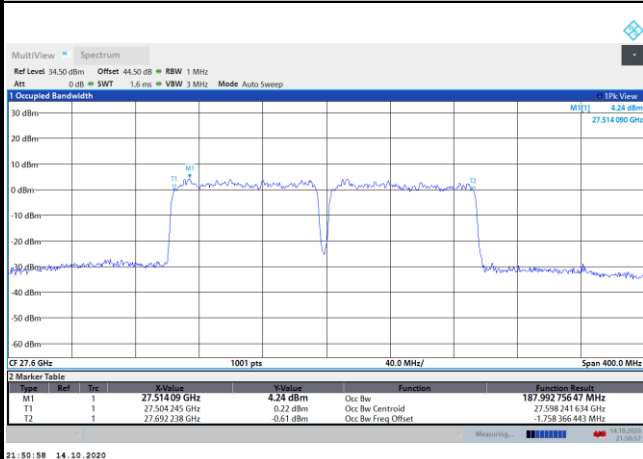




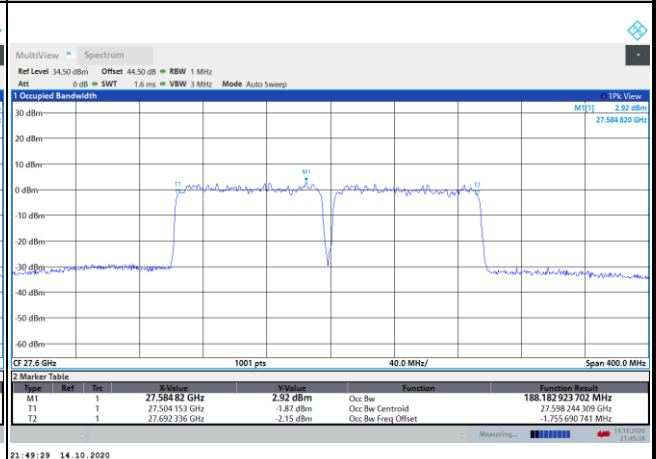
DFT-s-OFDM Module 1

NR Band n261

Lowest Channel / 200MHz / 16QAM



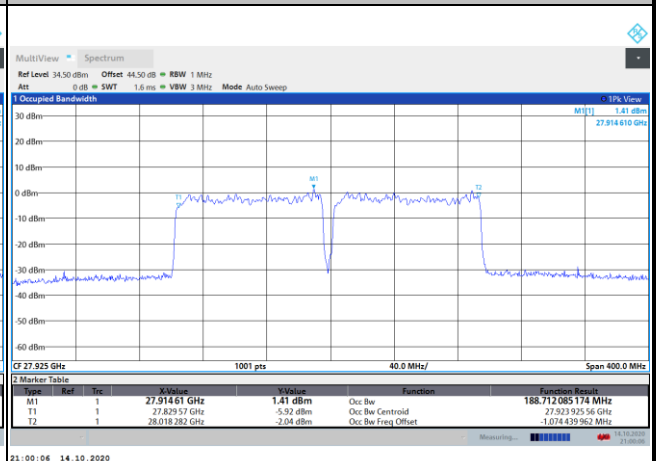
Lowest Channel / 200MHz / 64QAM



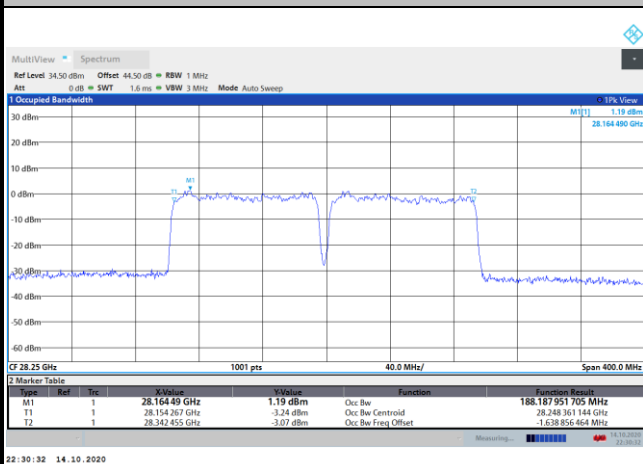
Middle Channel / 200MHz / 16QAM



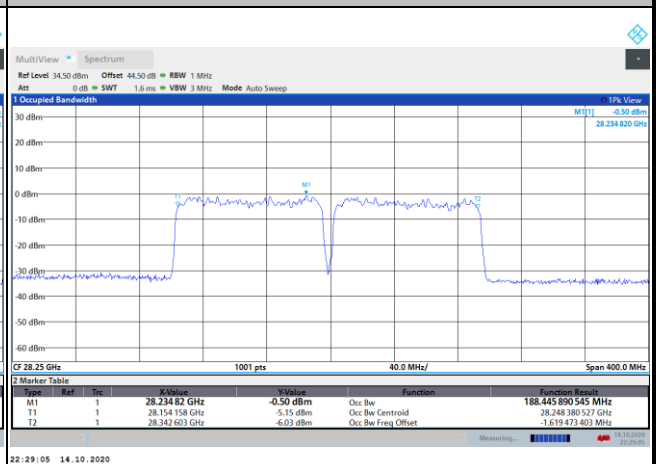
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM

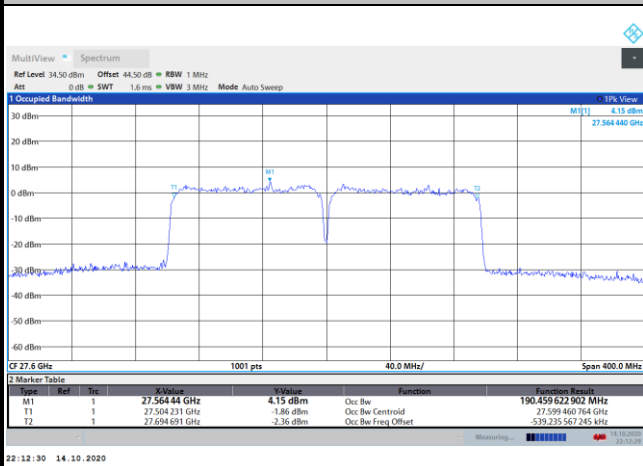




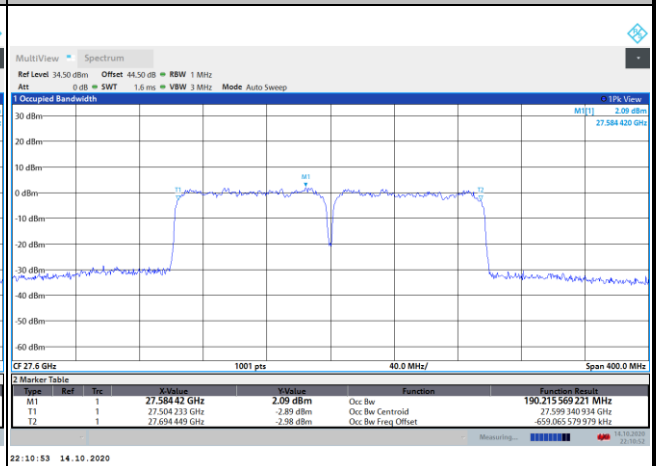
CP-OFDM Module 1

NR Band n261

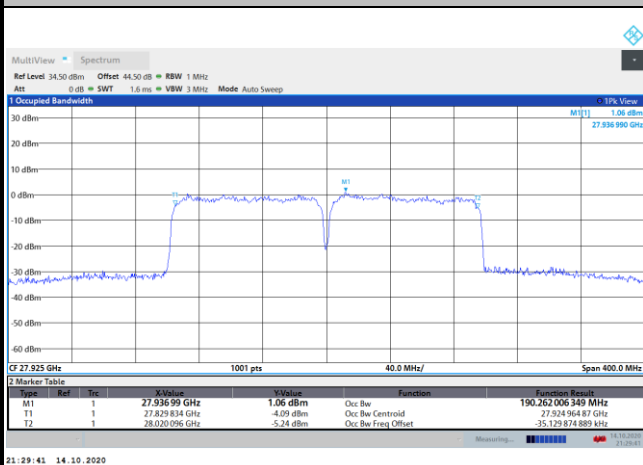
Lowest Channel / 200MHz / QPSK



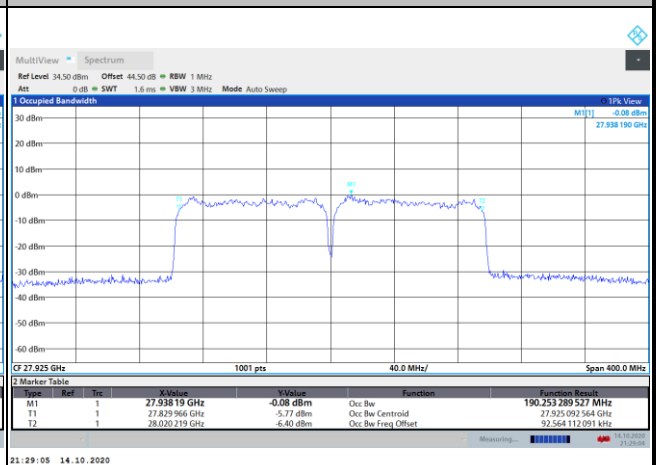
Lowest Channel / 200MHz / 16QAM



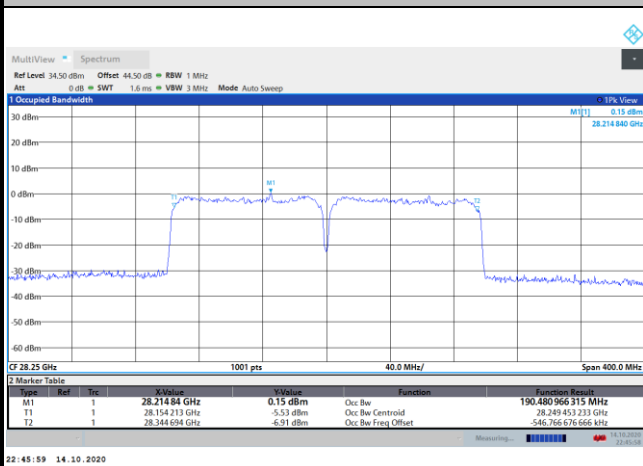
Middle Channel / 200MHz / QPSK



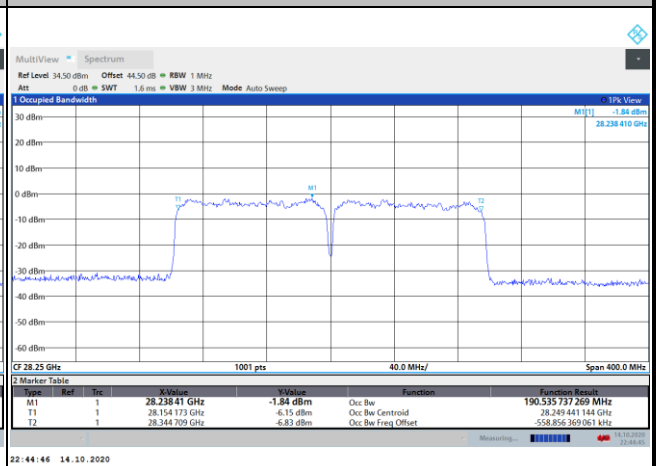
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

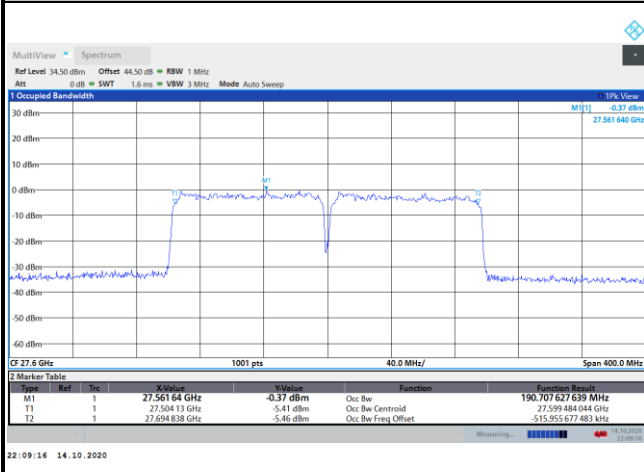




CP-OFDM Module 1

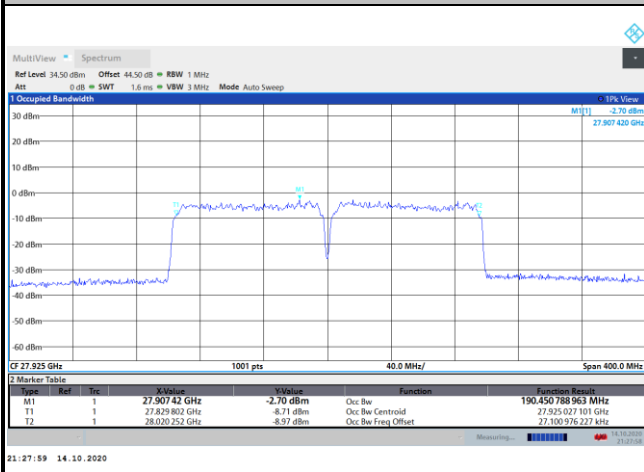
NR Band n261

Lowest Channel / 200MHz / 64QAM



intentionally blank

Middle Channel / 200MHz / 64QAM



intentionally blank

Highest Channel / 200MHz / 64QAM



intentionally blank



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB			
BW			200MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-27.08	-25.45	-25.79	-24.39
	>10%OB	≤ -13	-24.46	-26.97	-25.78	-25.52
HighCH	0~10%OB	≤ -5	-33.04	-32.28	-32.24	-30.26
	>10%OB	≤ -13	-37.97	-35.91	-36.56	-36.85
Result			Compliance			

Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) 1 RB		
BW			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-24.93	-23.57	-27.38
	>10%OB	≤ -13	-24.73	-24.36	-29.19
High CH	0~10%OB	≤ -5	-32.76	-33.25	-35.22
	>10%OB	≤ -13	-35.68	-35.02	-38.52
Result			Compliance		

Mode			DFT-s-OFDM Module 1 NR Band n261 : BE (dBm) Full RB			
BW			200MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-35.41	-35.27	-37.37	-39.13
	>10%OB	≤ -13	-35.62	-35.08	-37.62	-39.48
HighCH	0~10%OB	≤ -5	-37.04	-37.3	-38.19	-40.39
	>10%OB	≤ -13	-38.19	-38.2	-38.98	-41.06
Result			Compliance			

Mode			CP-OFDM Module 1 NR Band n261 : BE (dBm) Full RB		
BW			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-37.05	-38.51	-40.79
	>10%OB	≤ -13	-37.99	-39.35	-41.89
High CH	0~10%OB	≤ -5	-38.63	-39.83	-41.84
	>10%OB	≤ -13	-39.8	-40.34	-42.91
Result			Compliance		

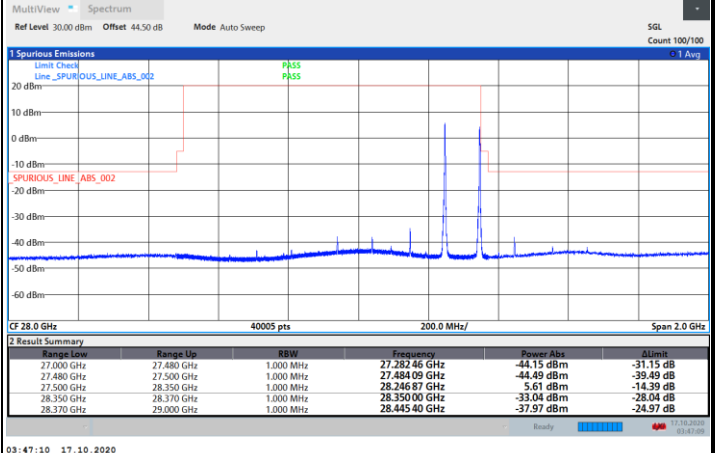
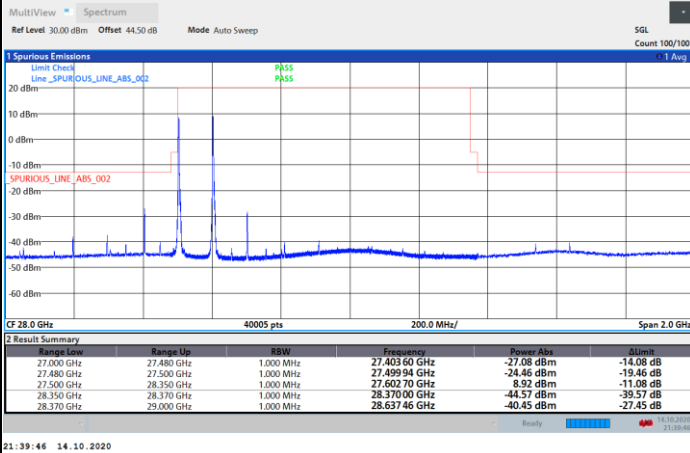


DFT-s-OFDM Module 1

NR Band n261 / 200MHz / BPSK

Lowest Band Edge / 1 RB

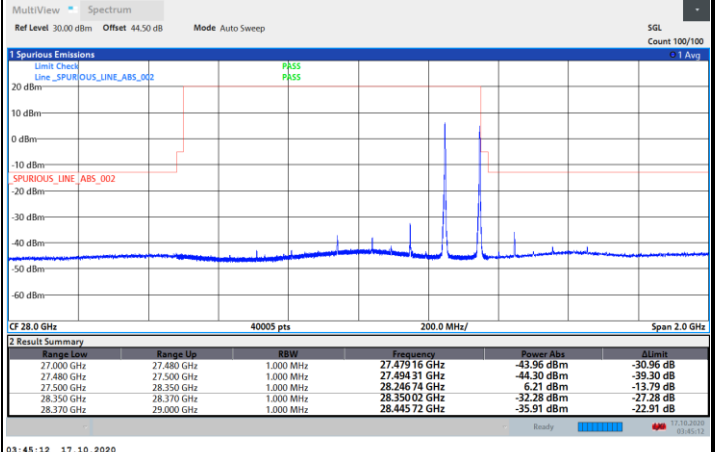
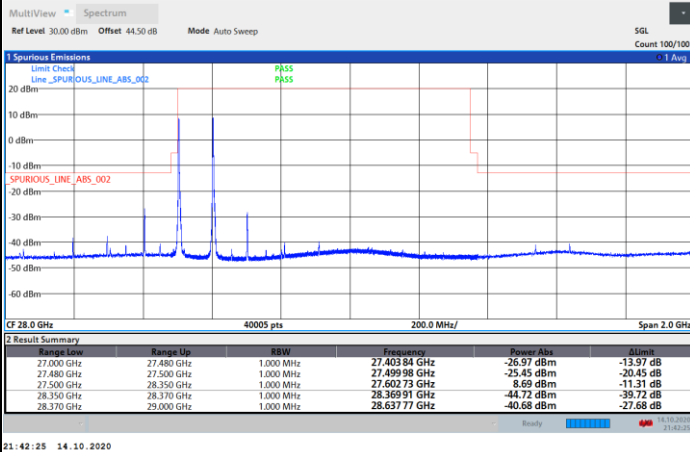
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / QPSK

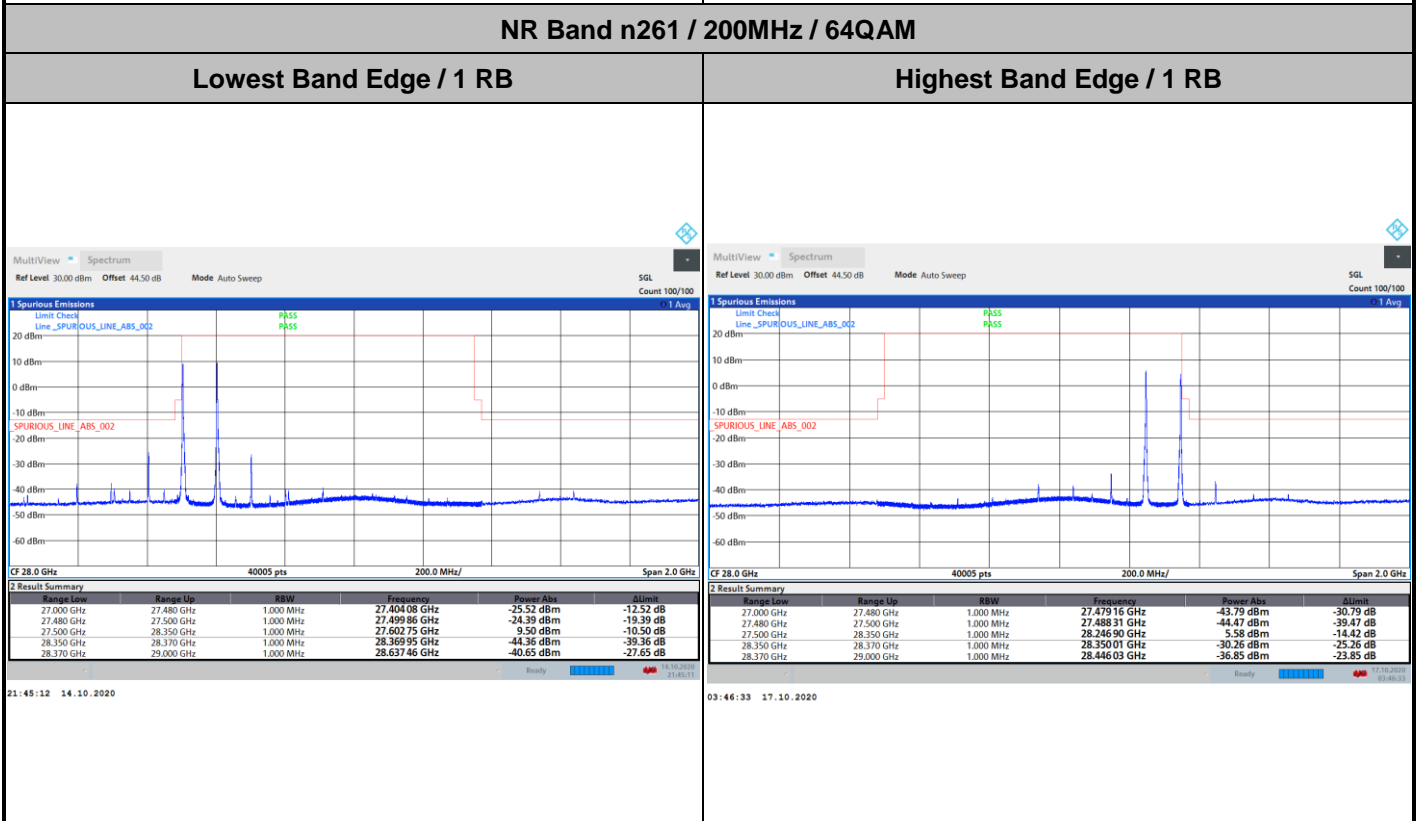
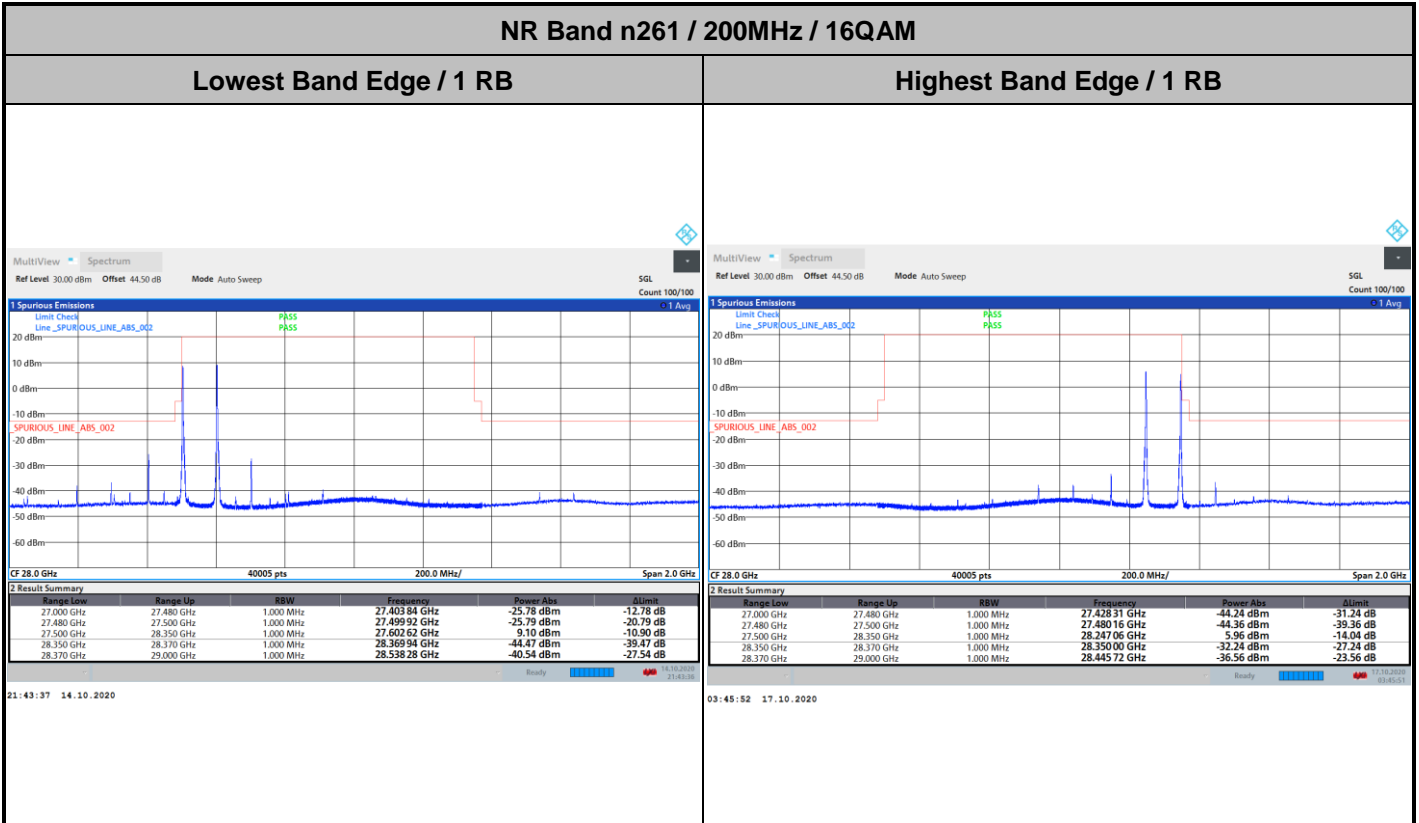
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB





DFT-s-OFDM Module 1



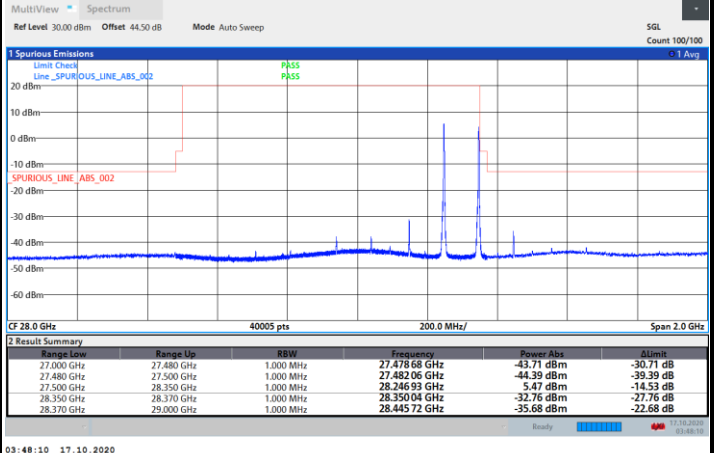
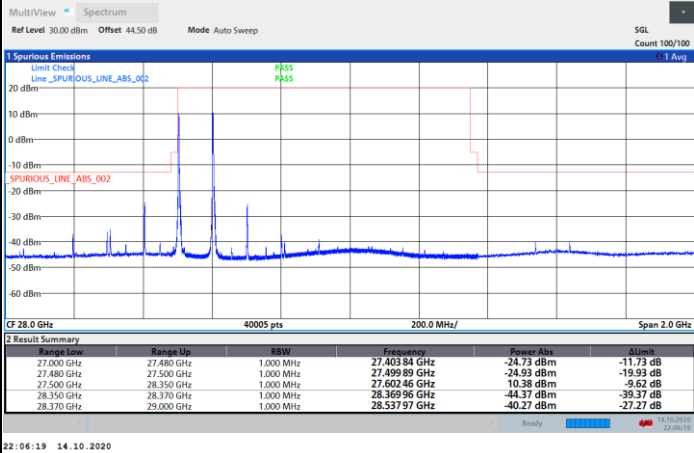


CP-OFDM Module 1

NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

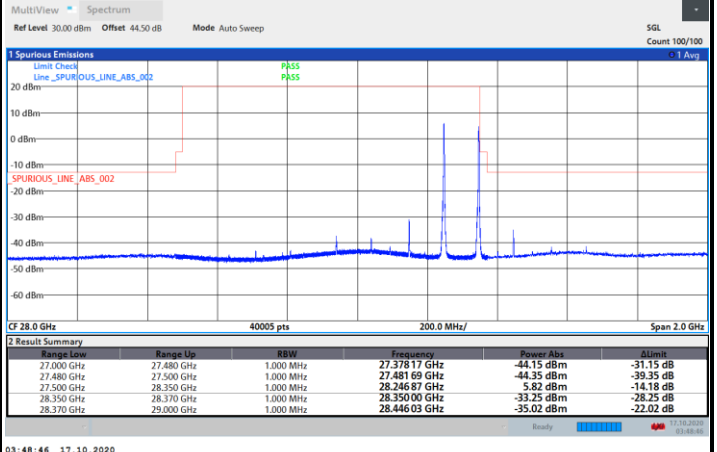
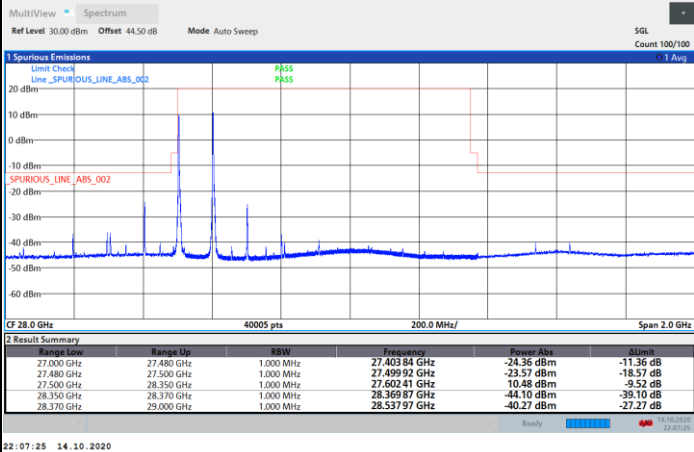
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / 16QAM

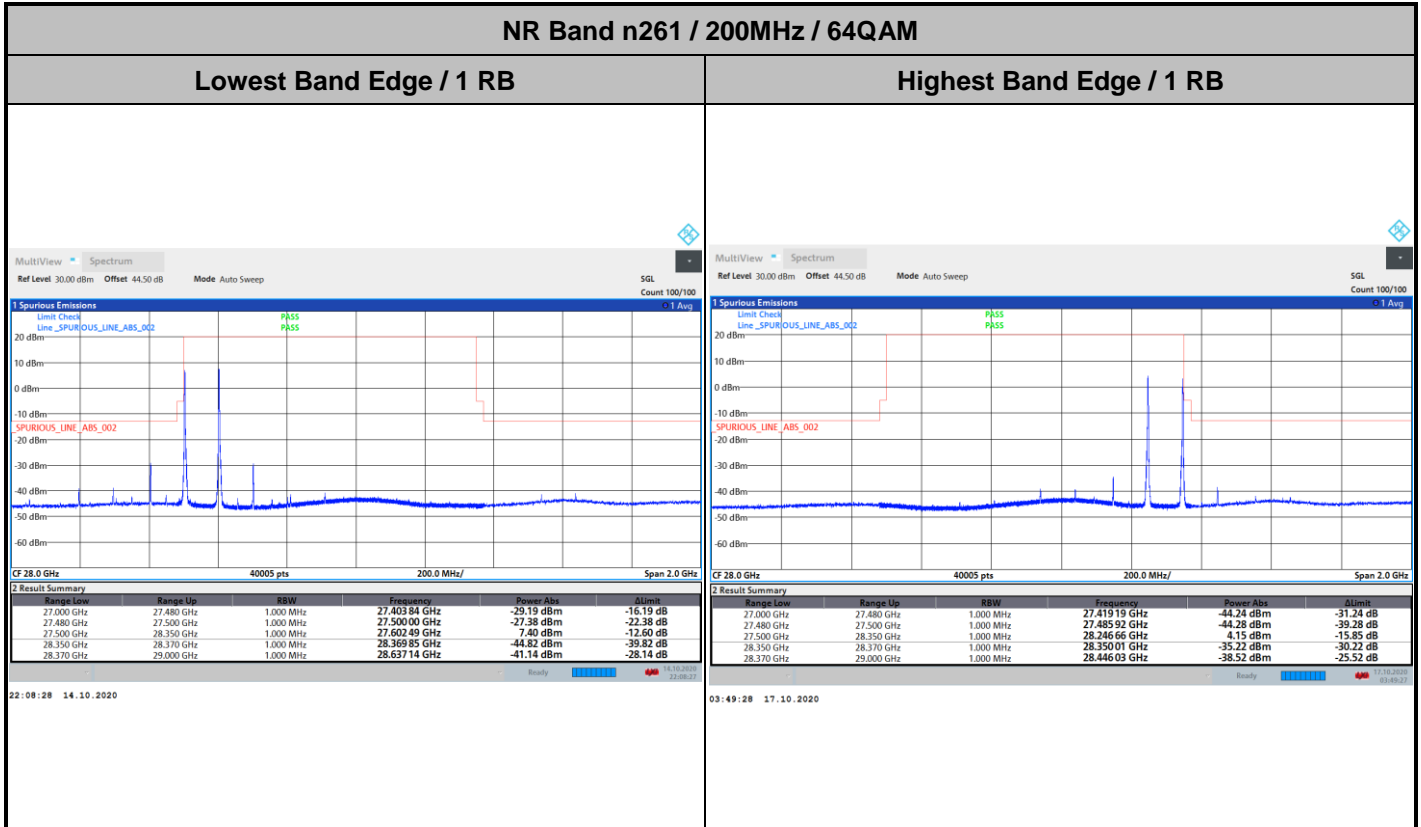
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



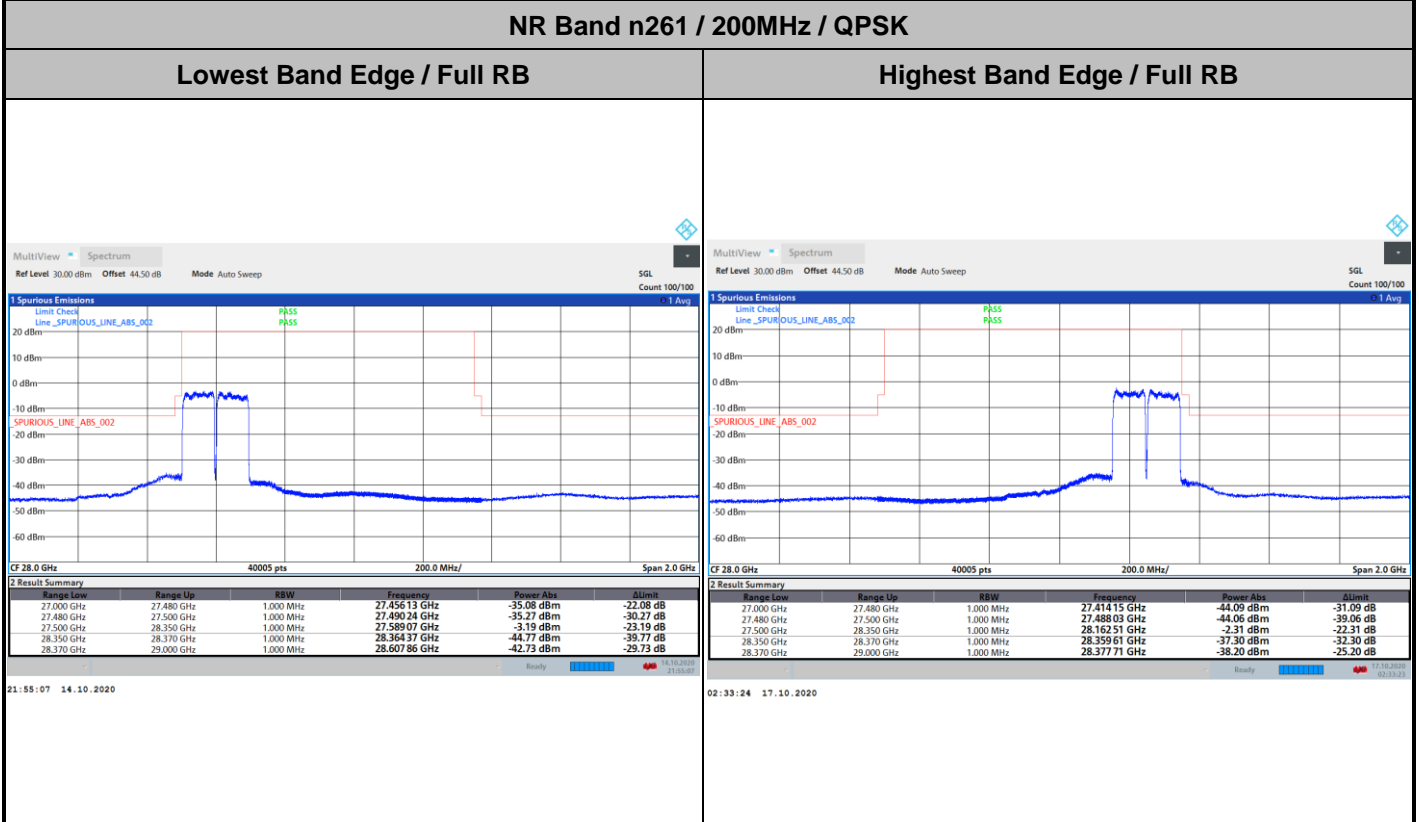
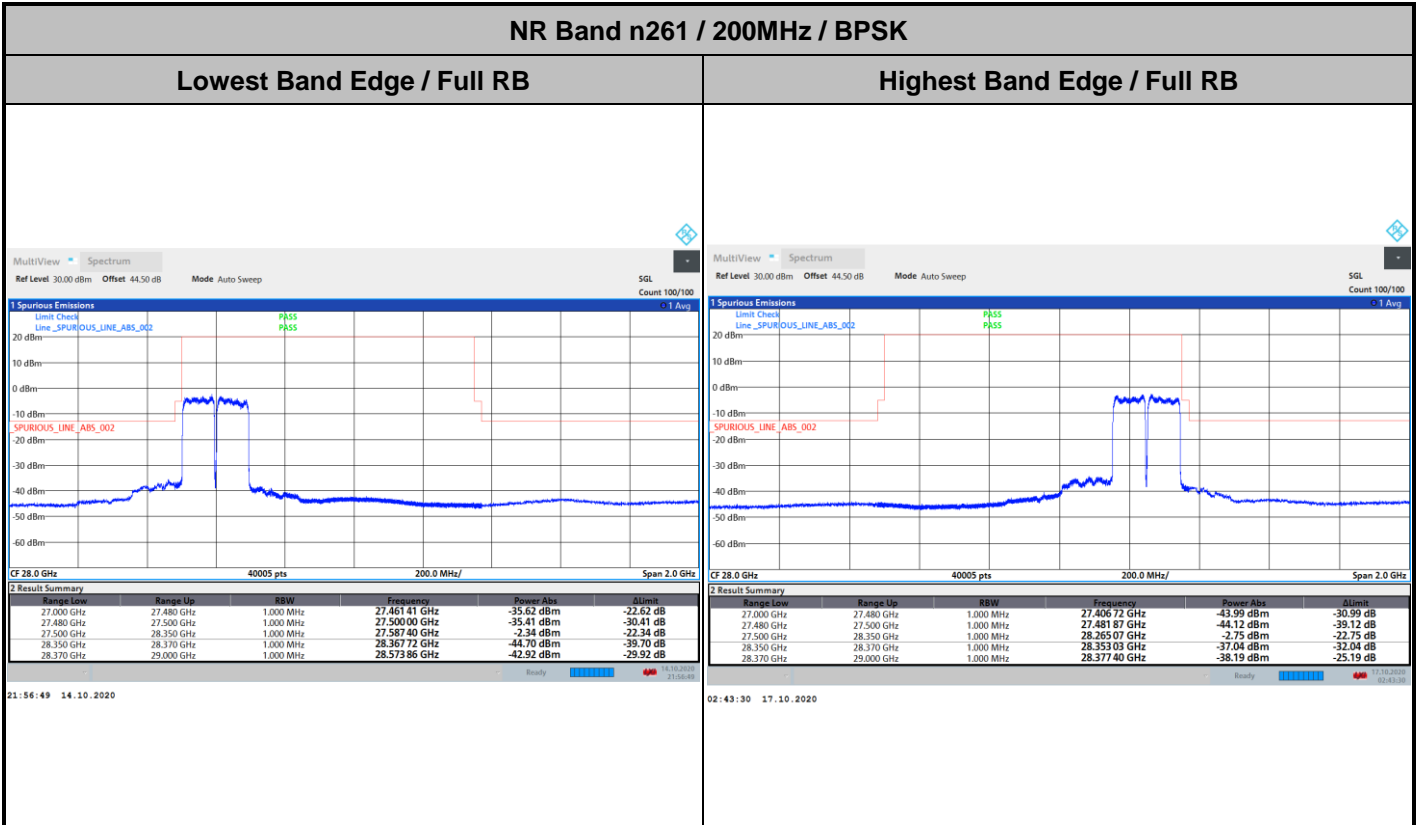


CP-OFDM Module 1





DFT-s-OFDM Module 1

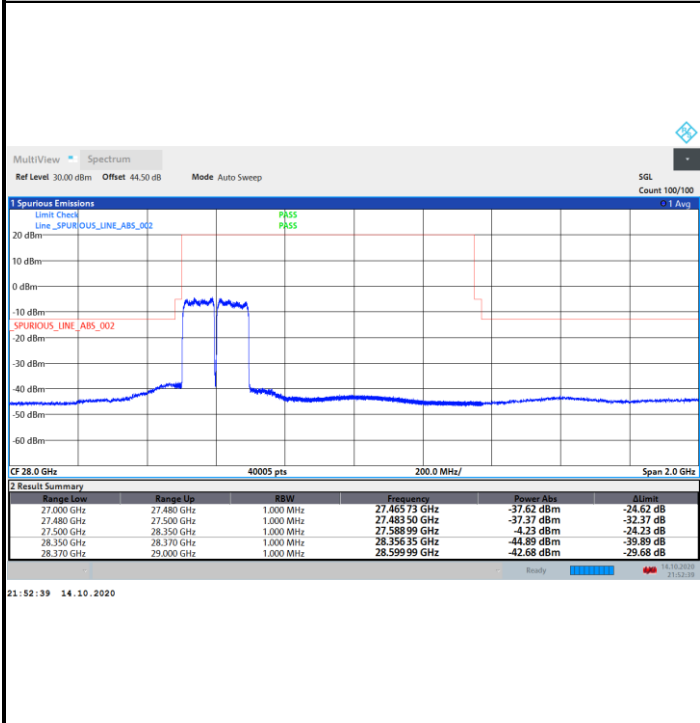




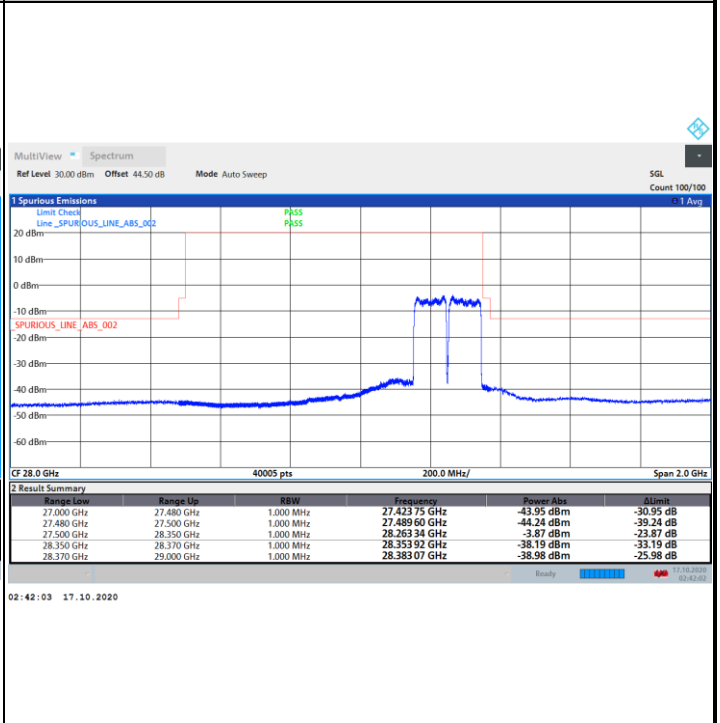
DFT-s-OFDM Module 1

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB

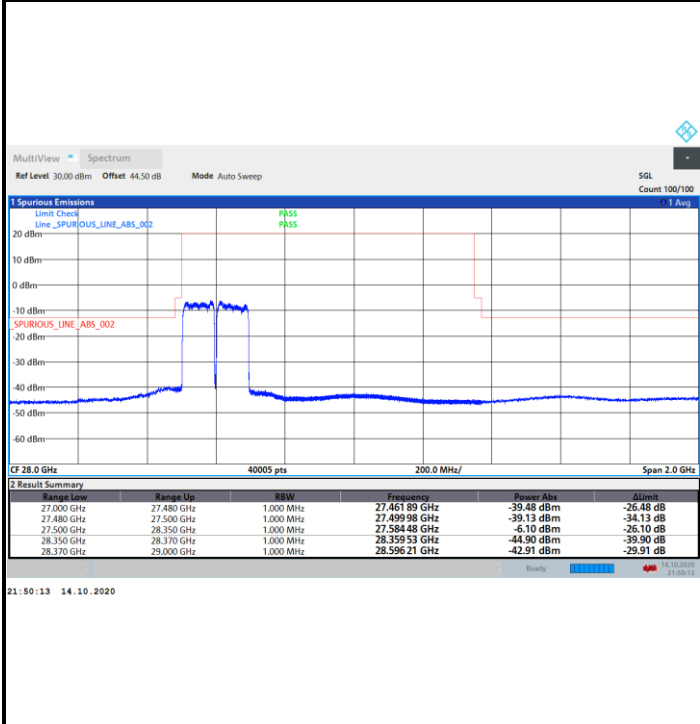


Highest Band Edge / Full RB

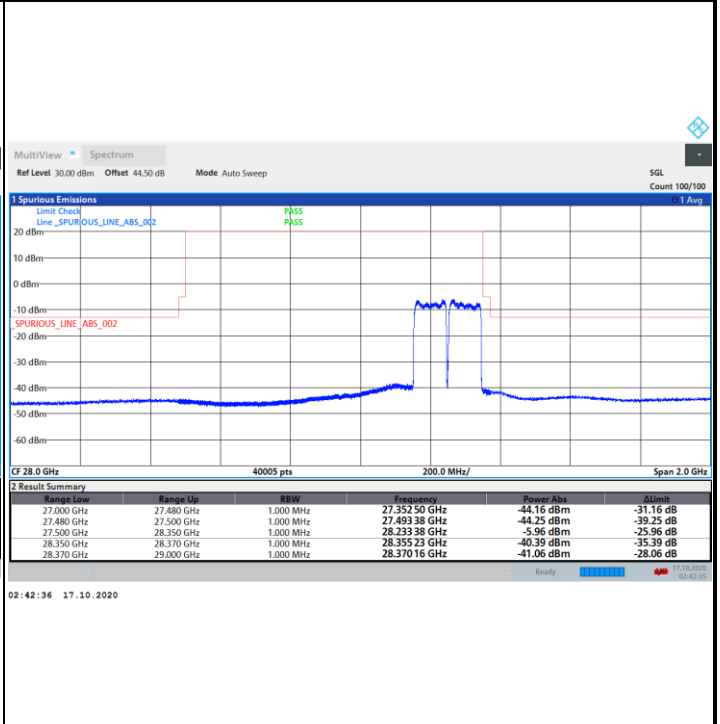


NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB

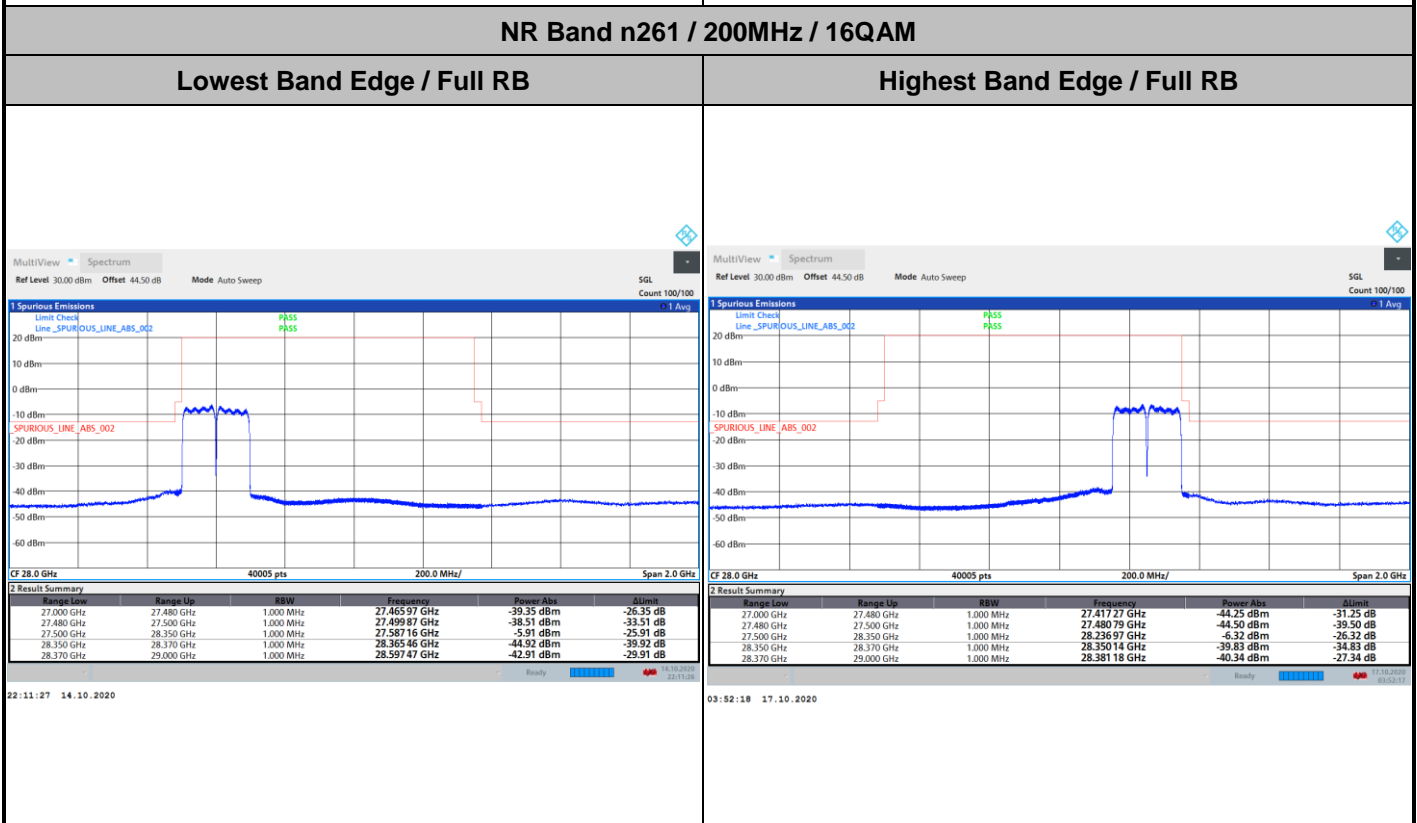
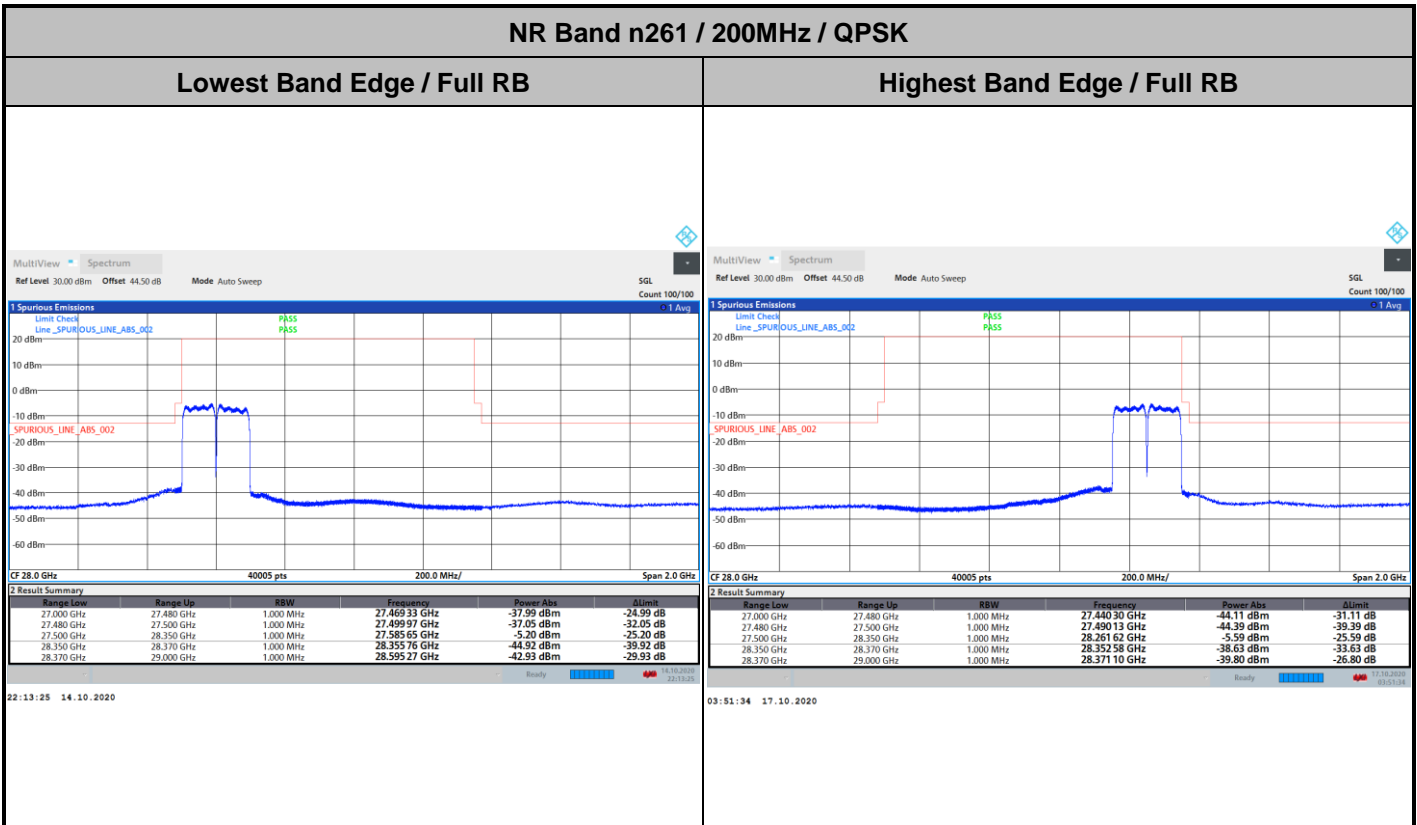


Highest Band Edge / Full RB



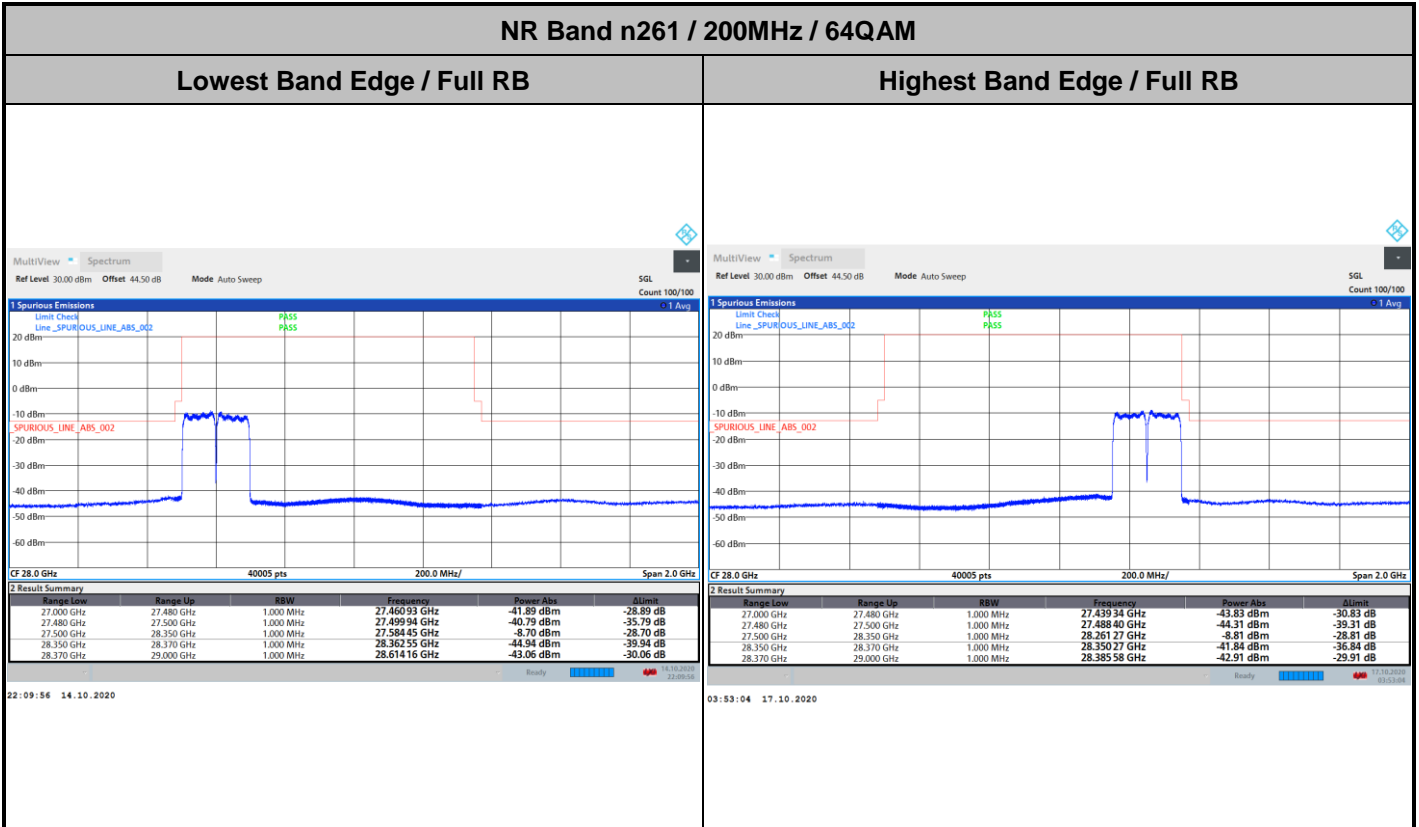


CP-OFDM Module 1





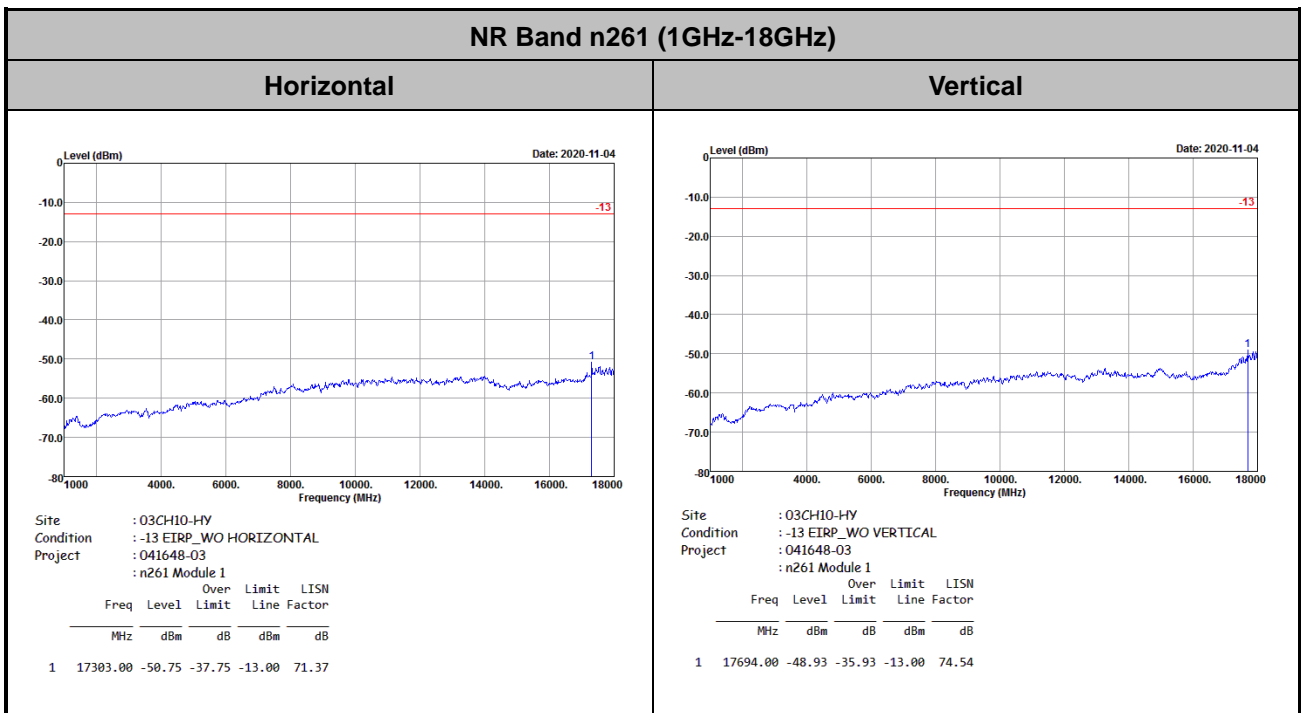
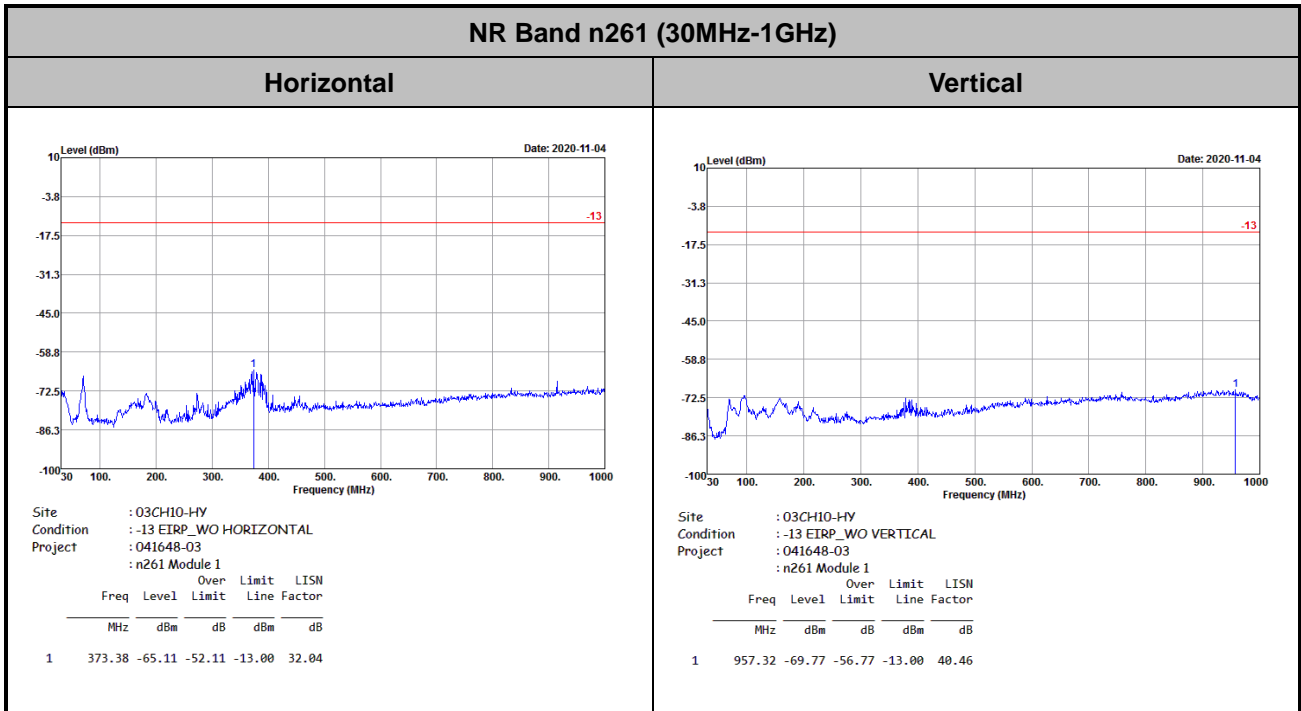
CP-OFDM Module 1





Spurious Emission

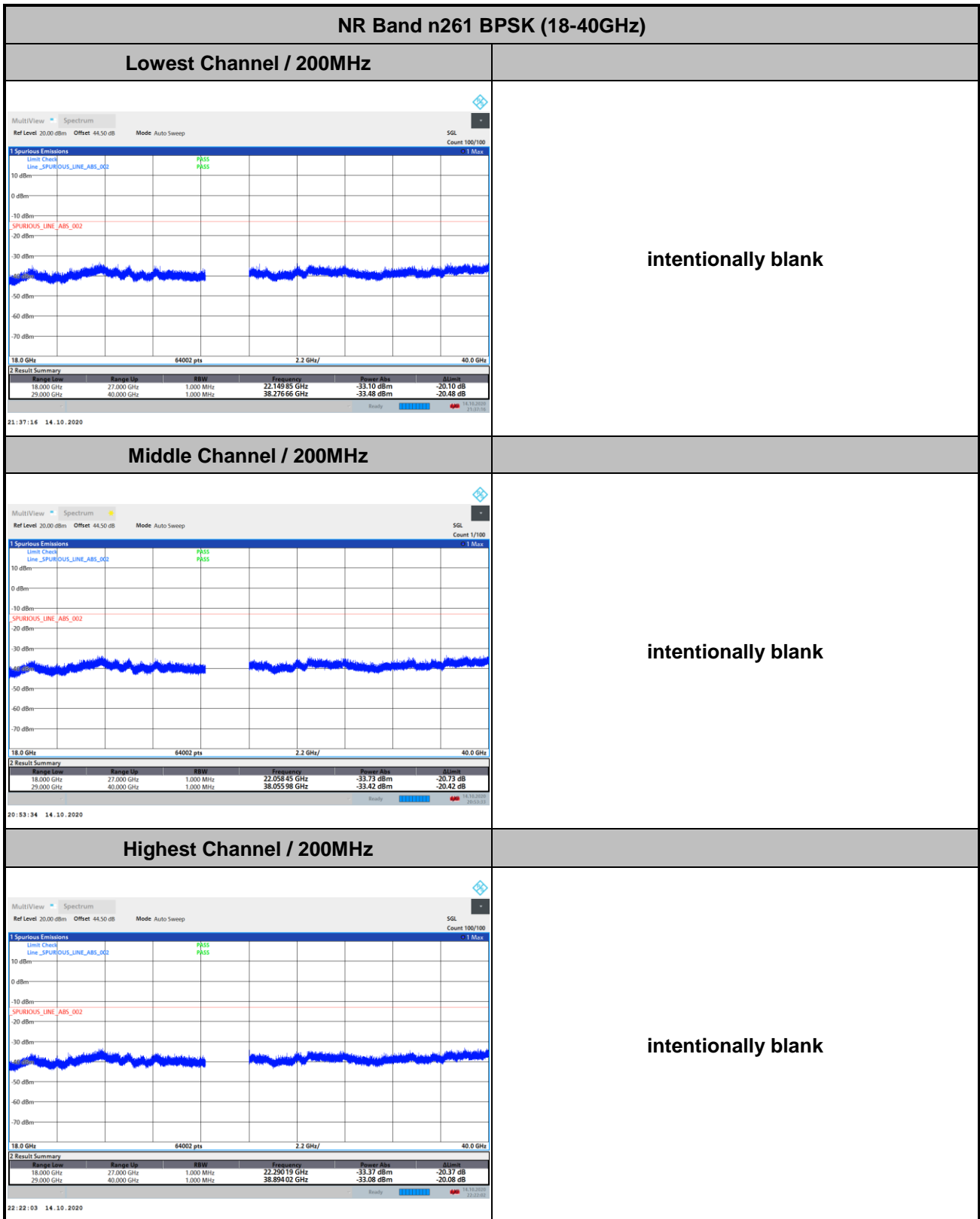
There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.
Only the noise floor is reported.





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

DFT-s-OFDM Module 1





DFT-s-OFDM Module 1

