

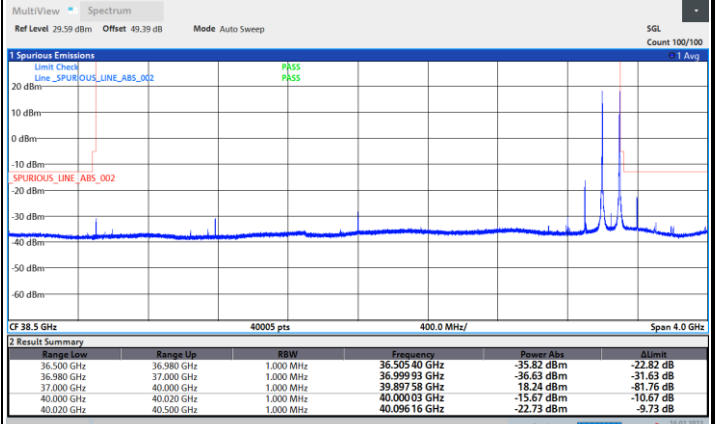
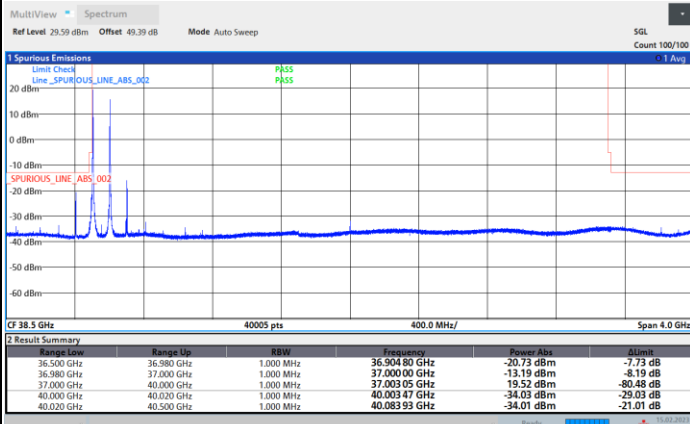


CP-OFDM Module 0

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / 1 RB

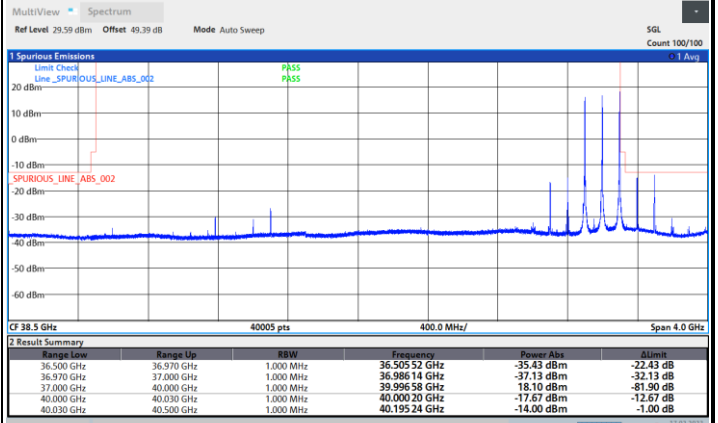
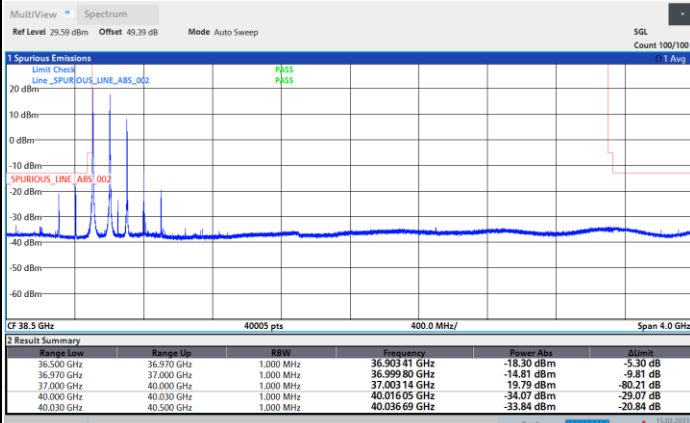
Highest Band Edge / 1 RB



NR Band n260 / 300MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



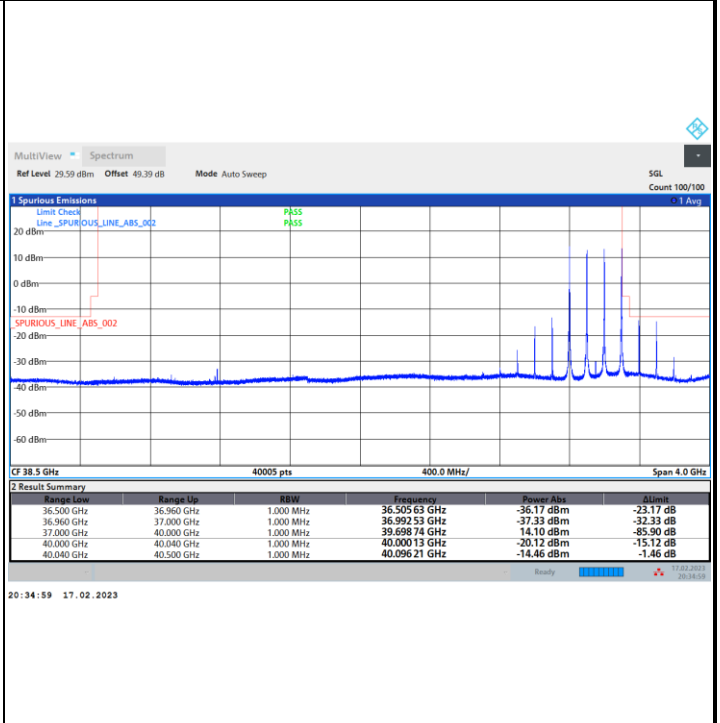
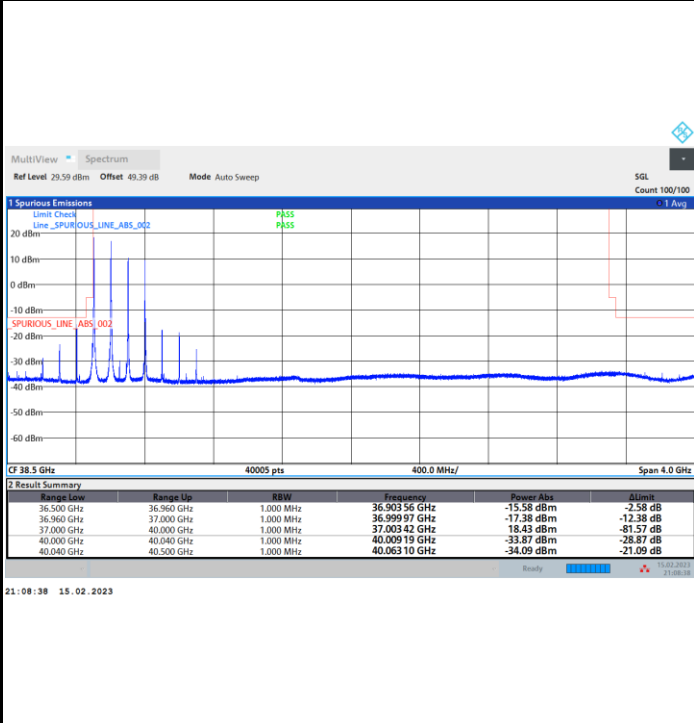


CP-OFDM Module 0

NR Band n260 / 400MHz / QPSK

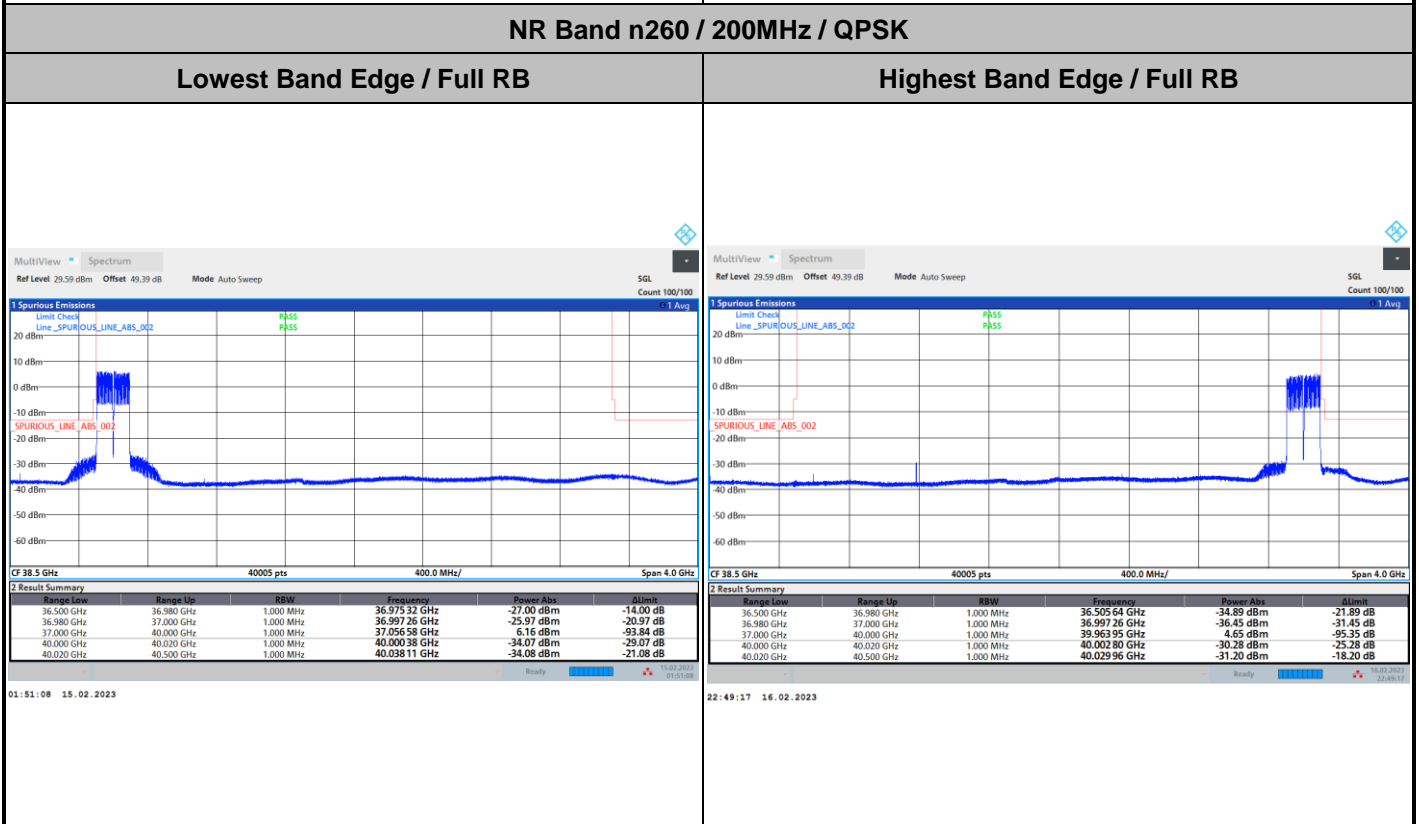
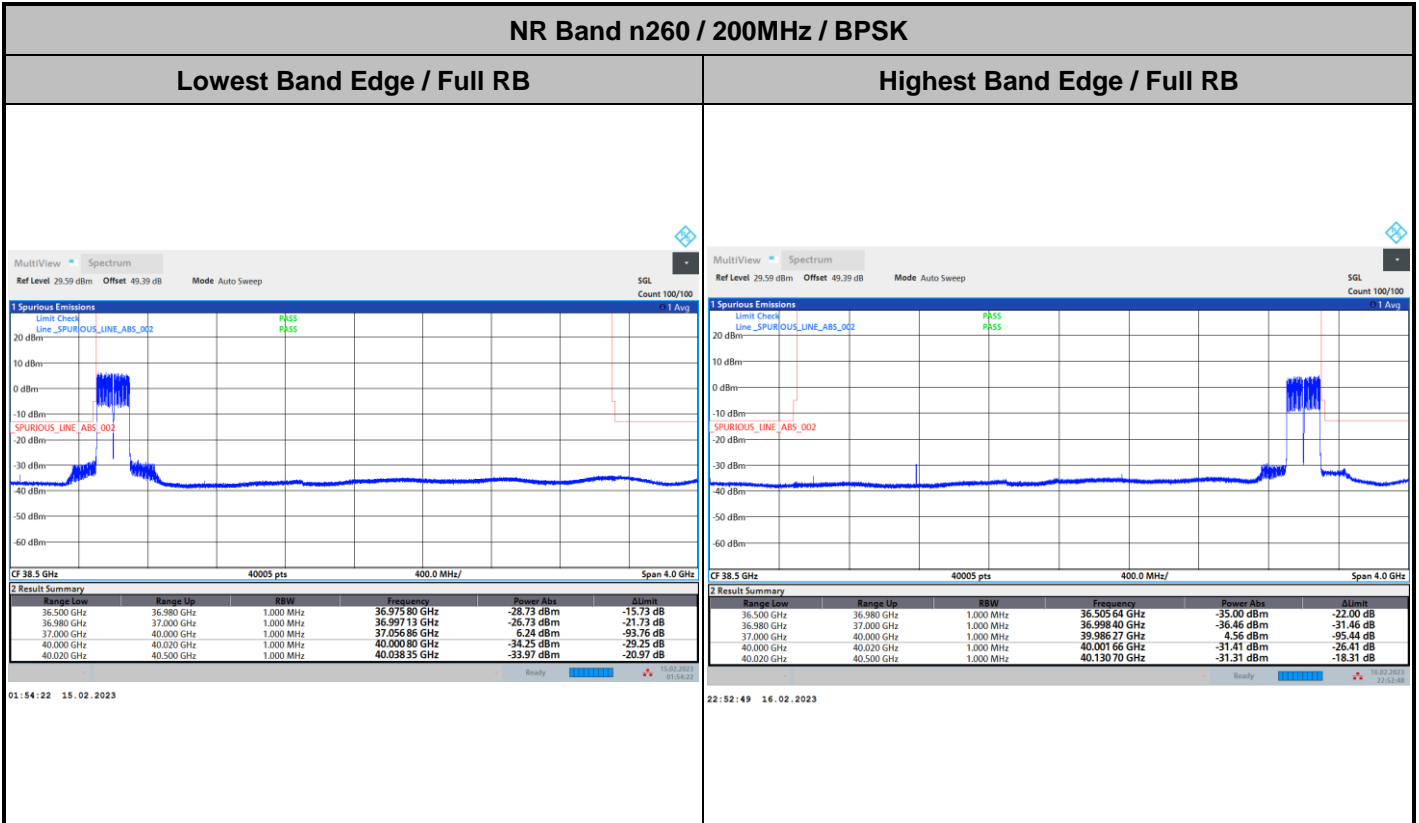
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB





DFT-s-OFDM Module 0

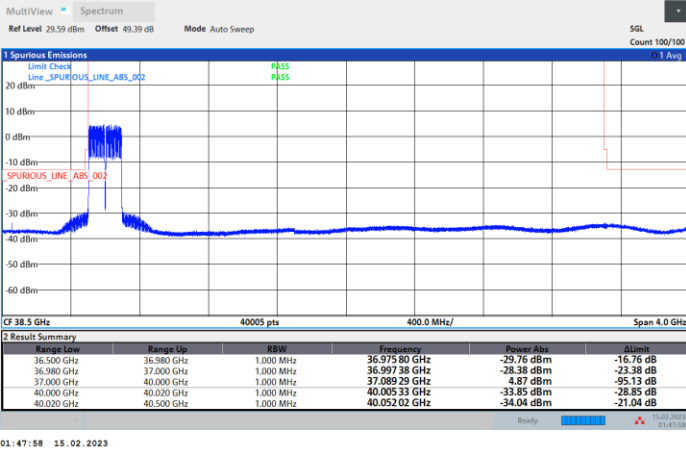




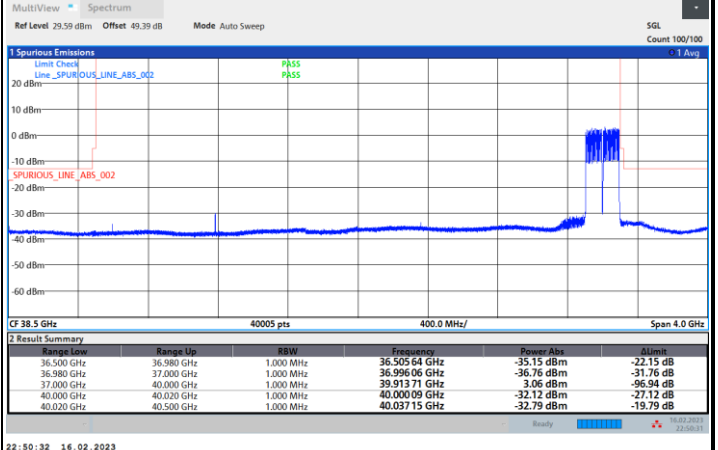
DFT-s-OFDM Module 0

NR Band n260 / 200MHz / 16QAM

Lowest Band Edge / Full RB

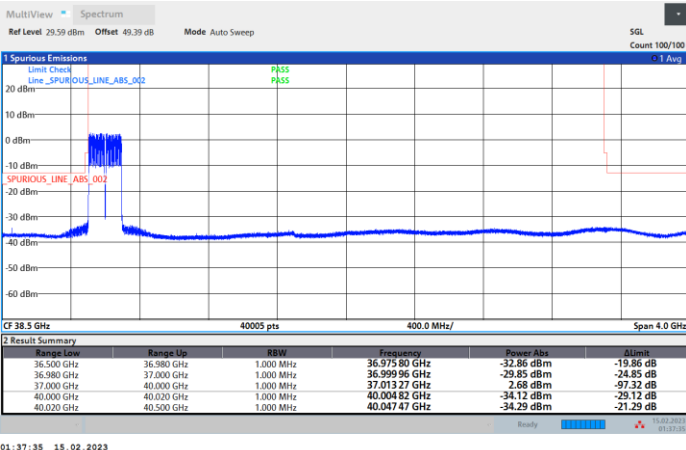


Highest Band Edge / Full RB

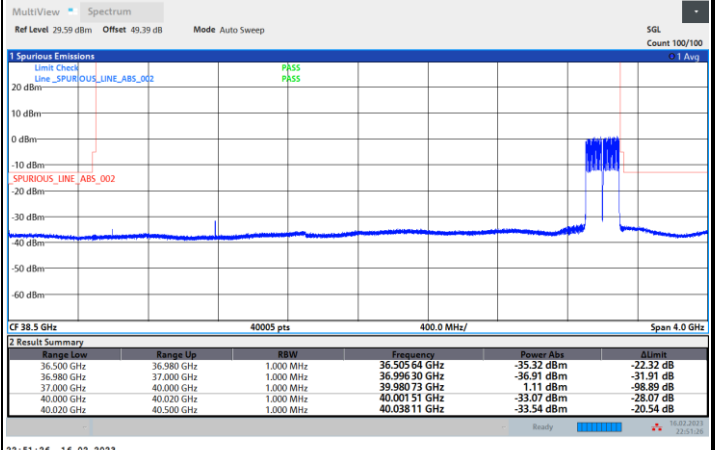


NR Band n260 / 200MHz / 64QAM

Lowest Band Edge / Full RB

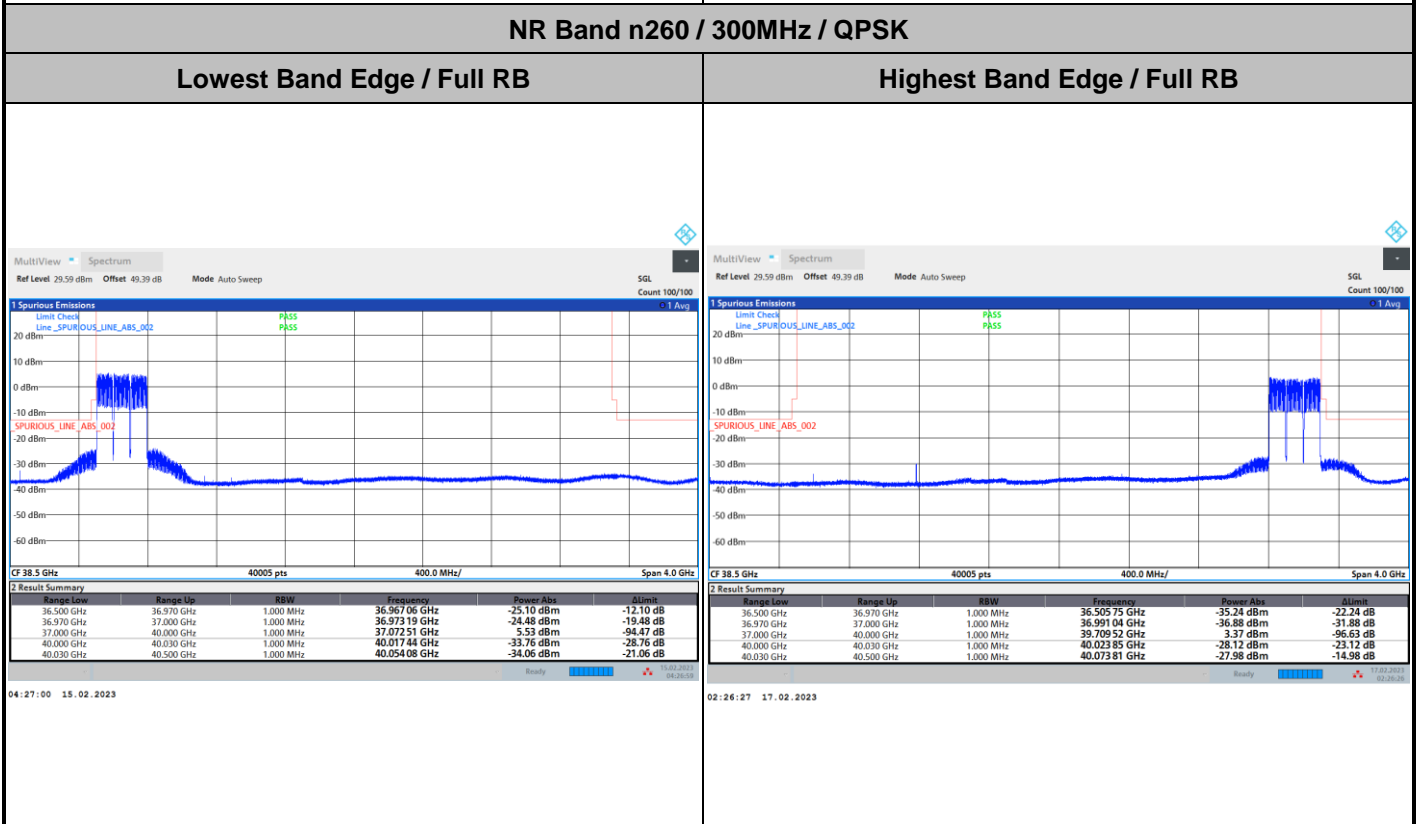
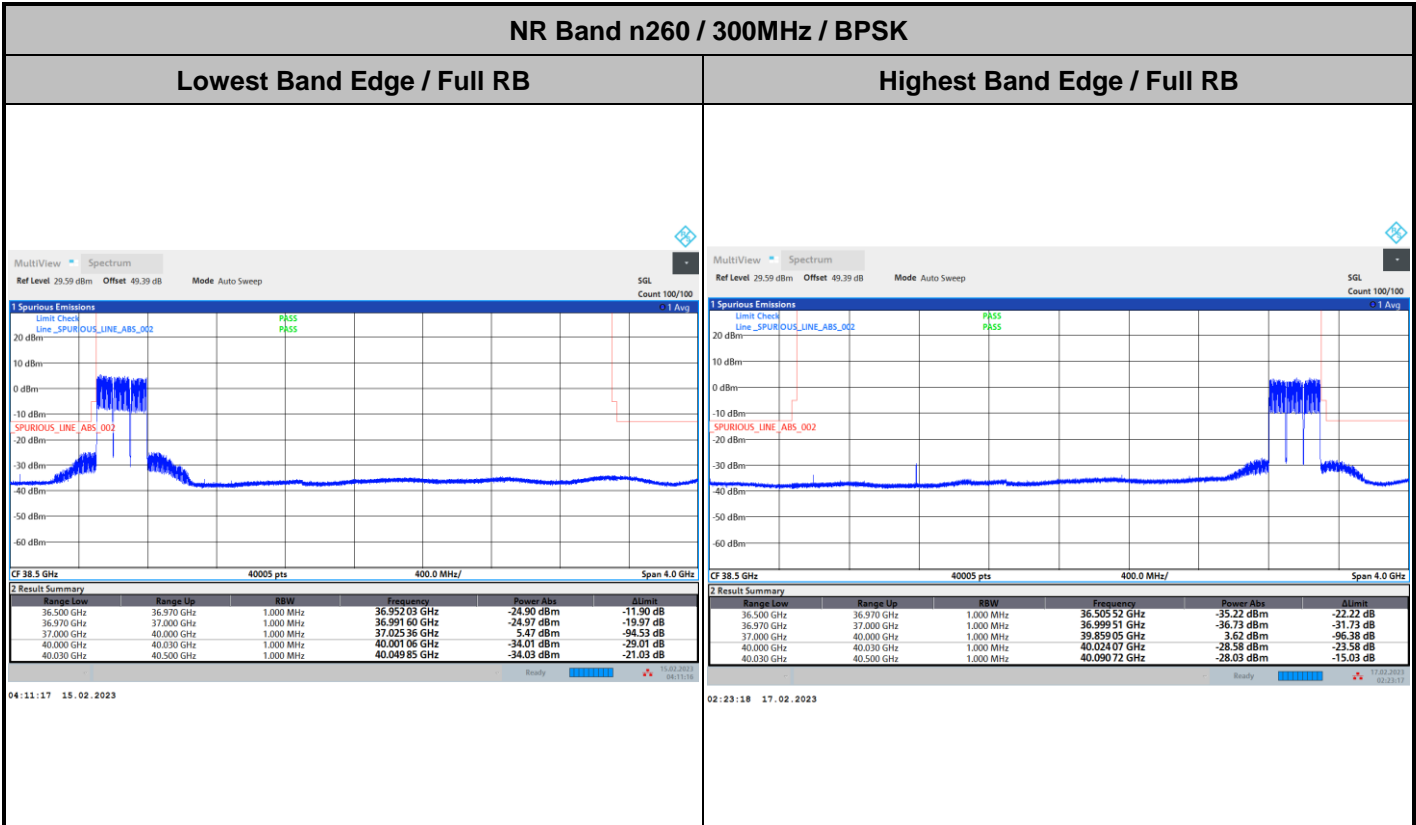


Highest Band Edge / Full RB





DFT-s-OFDM Module 0

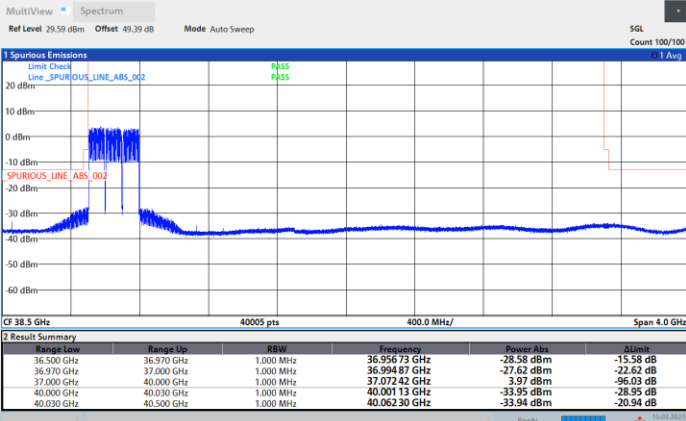




DFT-s-OFDM Module 0

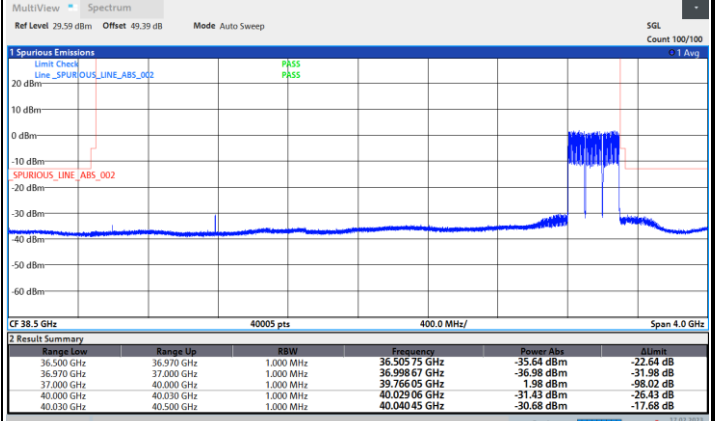
NR Band n260 / 300MHz / 16QAM

Lowest Band Edge / Full RB



04:26:07 15. 02. 2023

Highest Band Edge / Full RB



02:25:29 17. 02. 2023

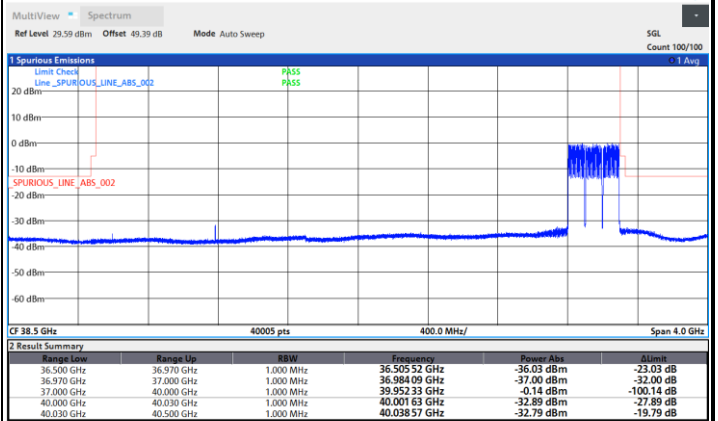
NR Band n260 / 300MHz / 64QAM

Lowest Band Edge / Full RB



04:24:58 15. 02. 2023

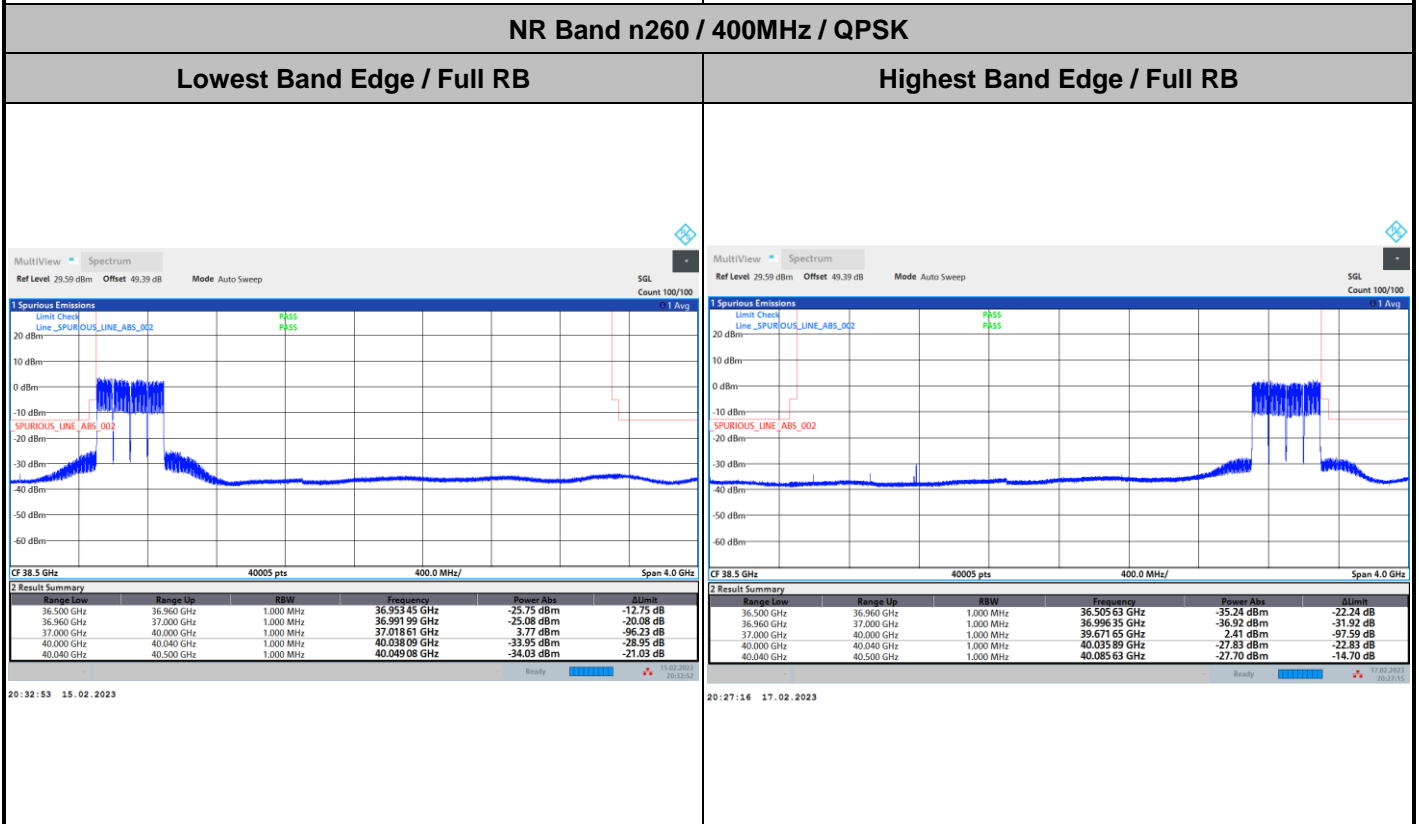
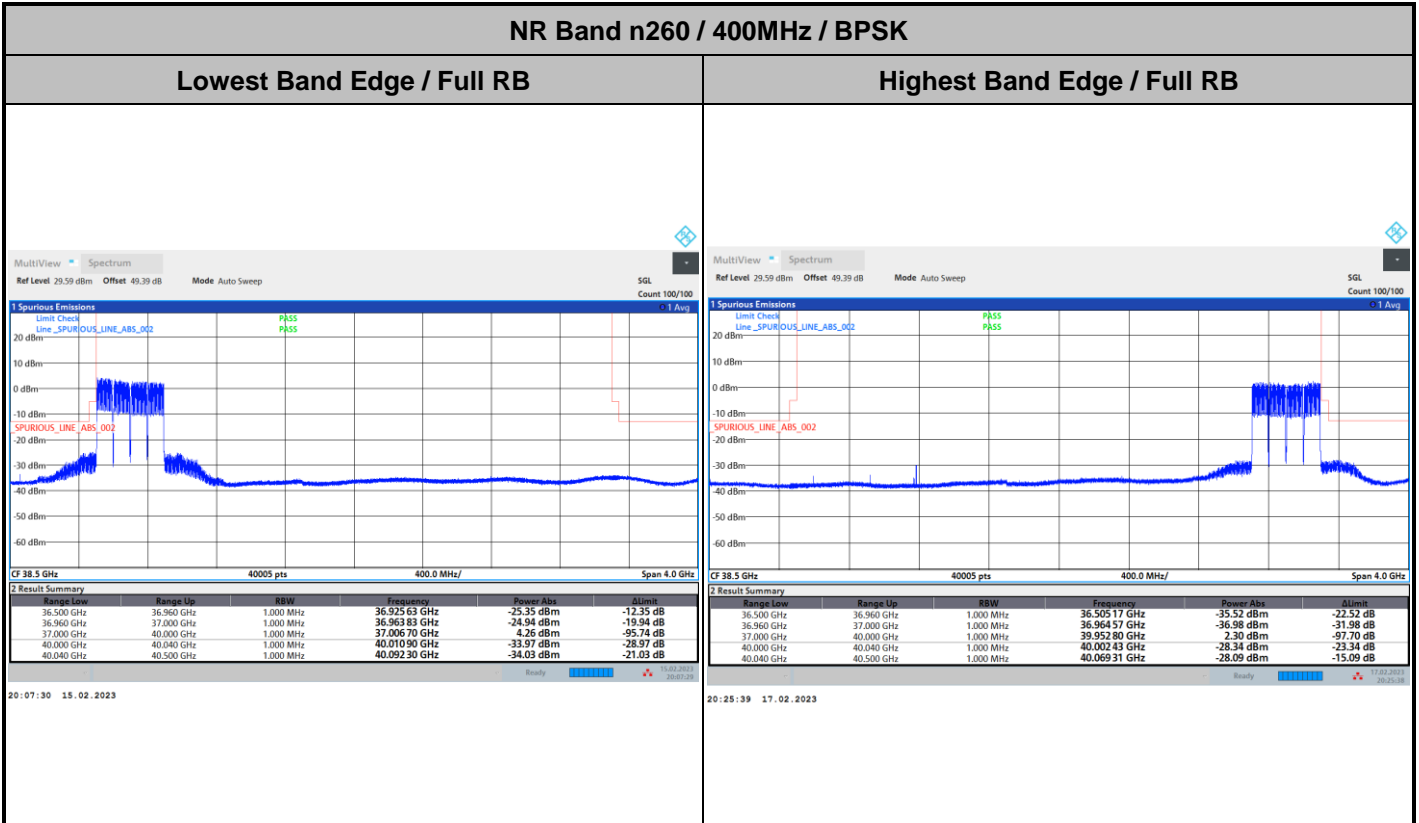
Highest Band Edge / Full RB



02:24:21 17. 02. 2023



DFT-s-OFDM Module 0

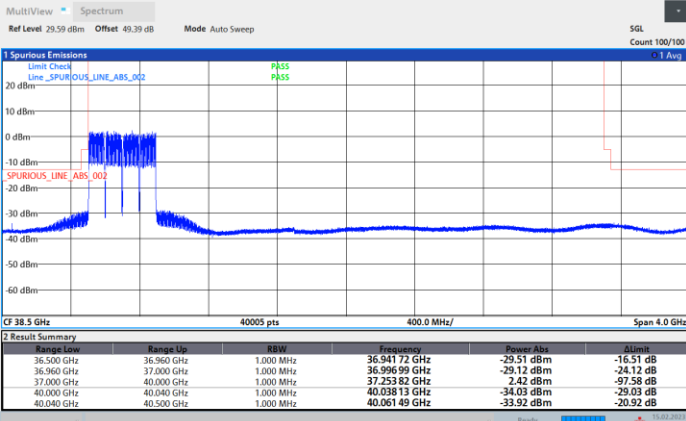




DFT-s-OFDM Module 0

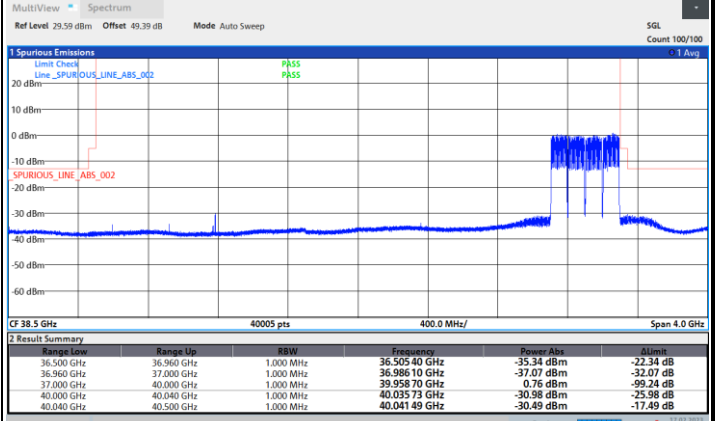
NR Band n260 / 400MHz / 16QAM

Lowest Band Edge / Full RB



20:30:40 15. 02. 2023

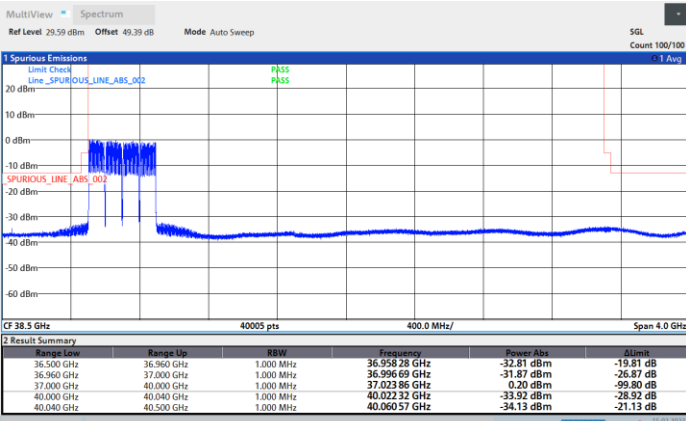
Highest Band Edge / Full RB



20:28:42 17. 02. 2023

NR Band n260 / 400MHz / 64QAM

Lowest Band Edge / Full RB



20:26:38 15. 02. 2023

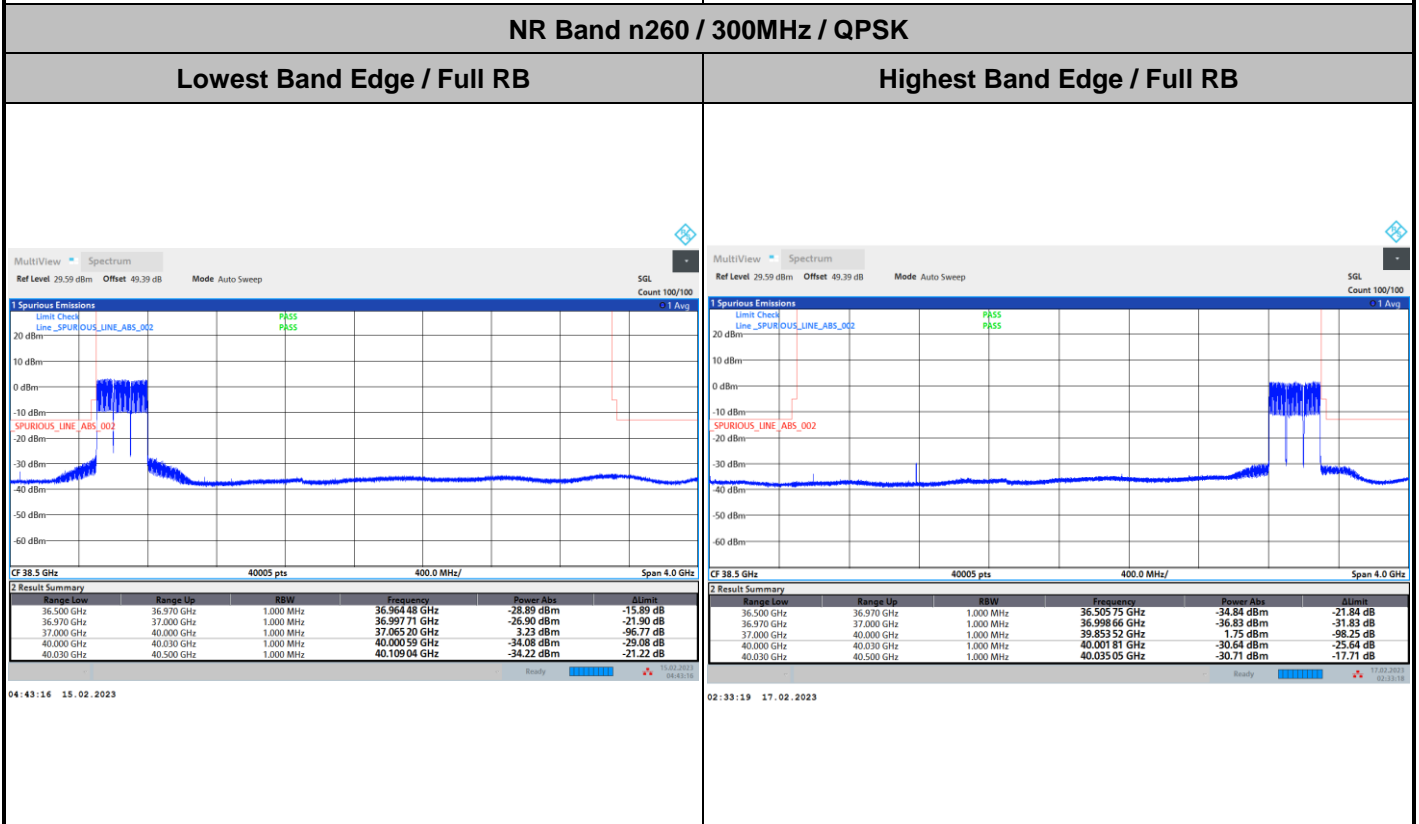
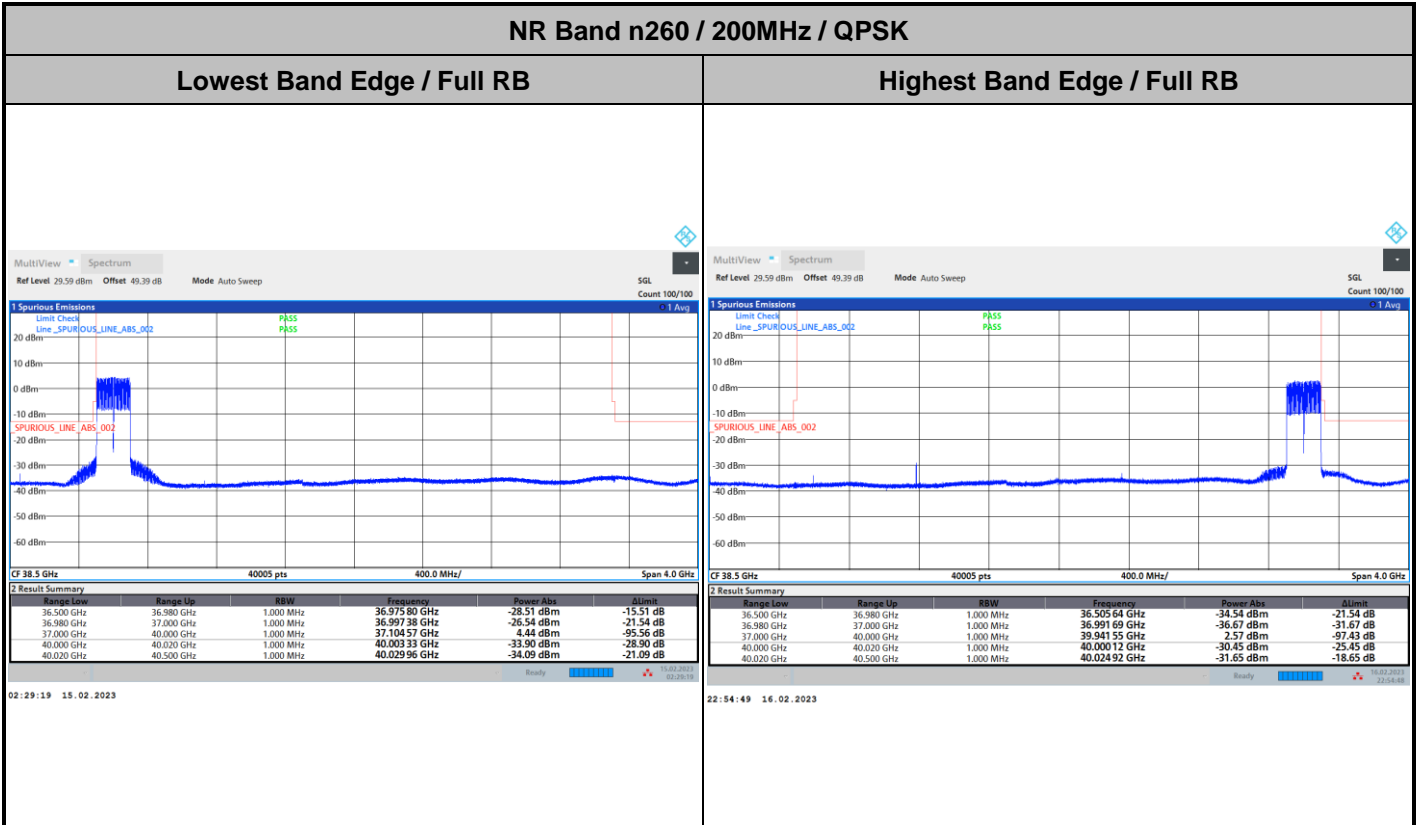
Highest Band Edge / Full RB



20:31:05 17. 02. 2023

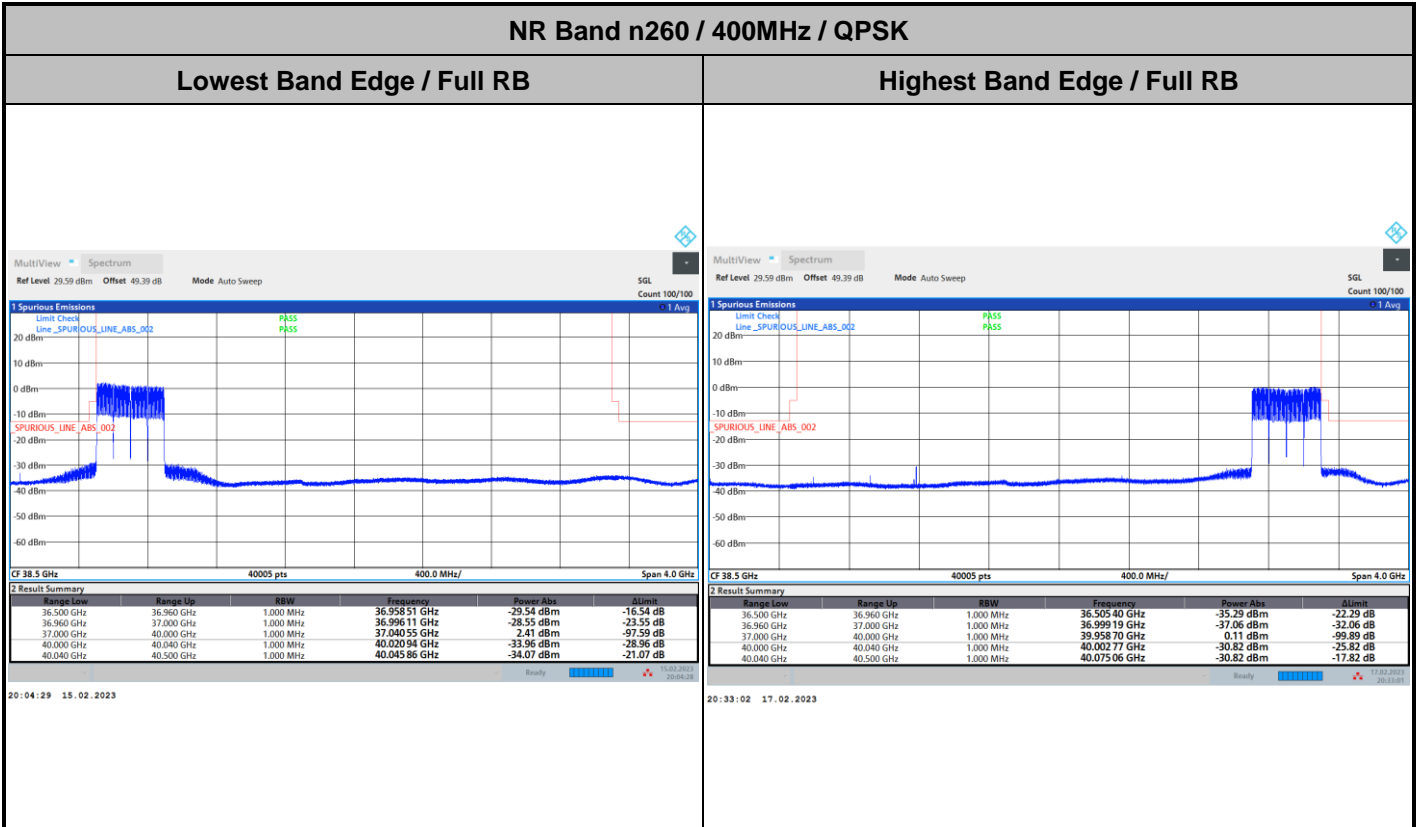


CP-OFDM Module 0





CP-OFDM Module 0

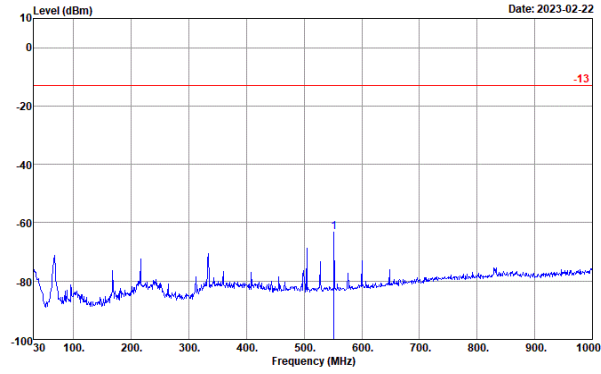




Spurious Emission

NR Band n260 (30MHz-1GHz)

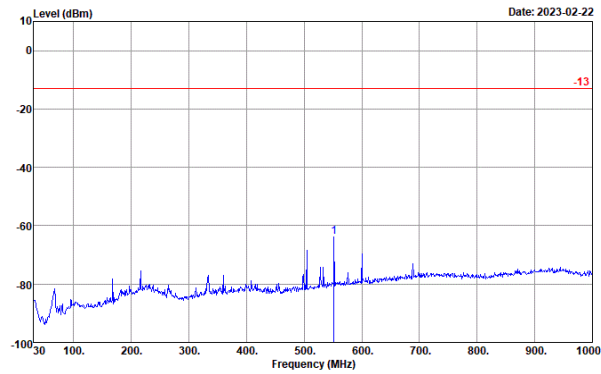
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	551.86	-63.26	-50.26 -13.00

Vertical



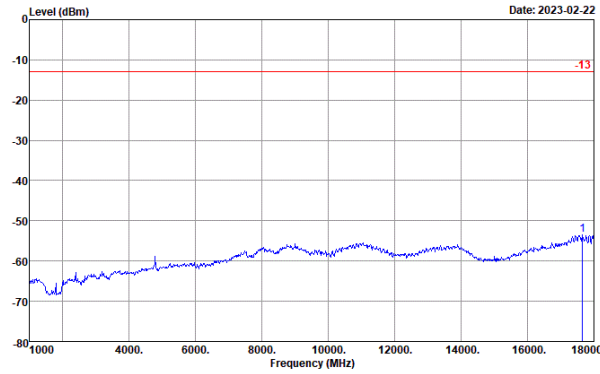
Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	551.86	-63.84	-50.84 -13.00



NR Band n260 (1GHz-18GHz)

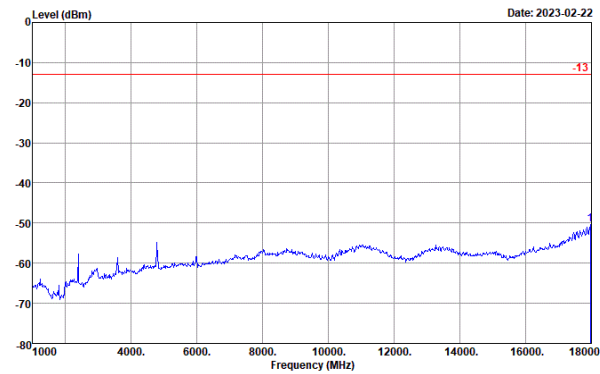
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1 17660.00	-53.56	-40.56	-13.00

Vertical



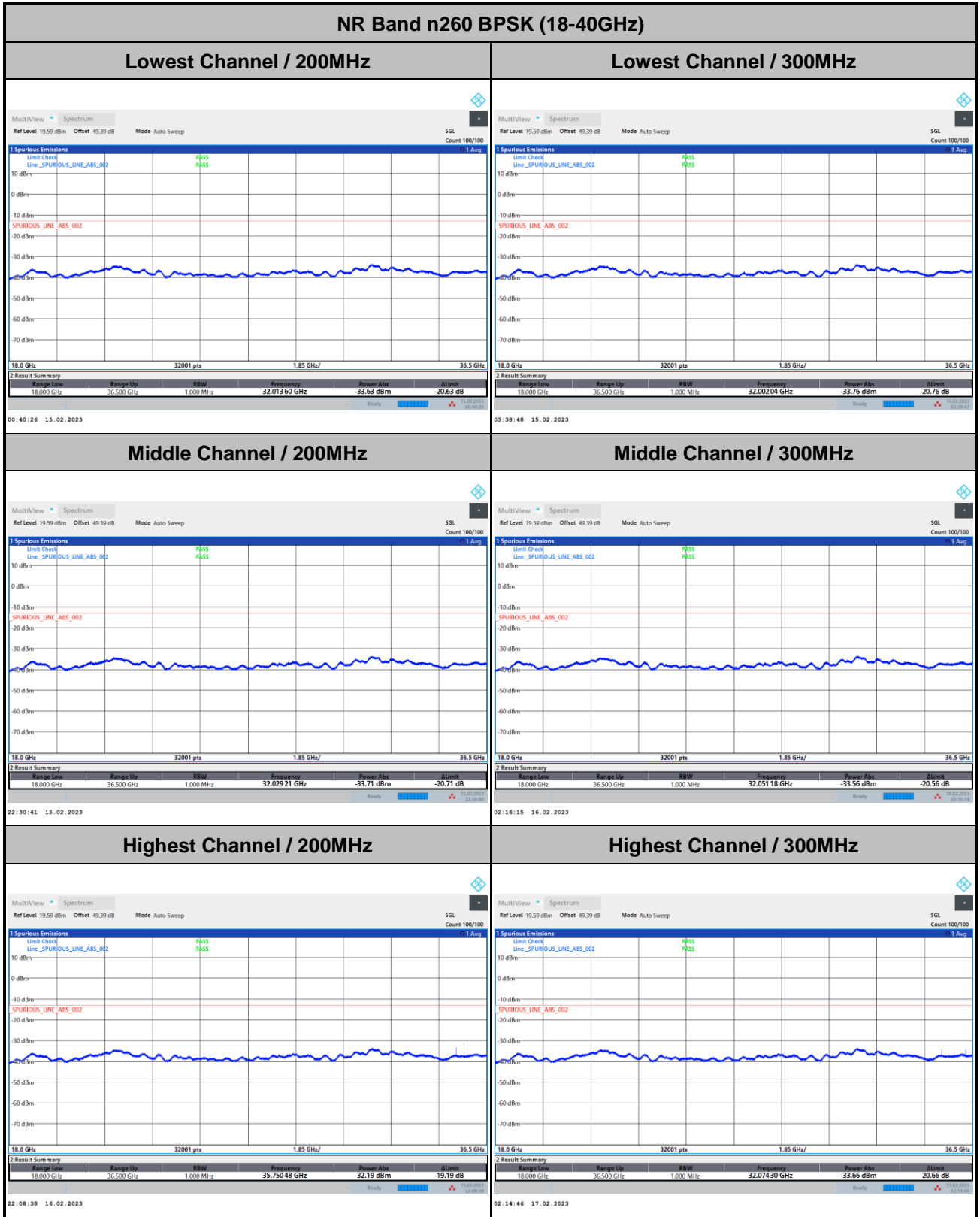
Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 190614-10
 : MO

Freq	Level	Over	Limit
MHz	dBm	dB	dBm
1 17966.00	-50.43	-37.43	-13.00



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

DFT-s-OFDM Module 0



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



DFT-s-OFDM Module 0

NR Band n260 BPSK (18-40GHz)	
<p>Lowest Channel / 400MHz</p>	<p>intentionally blank</p>
<p>Middle Channel / 400MHz</p>	<p>intentionally blank</p>
<p>Highest Channel / 400MHz</p>	<p>intentionally blank</p>

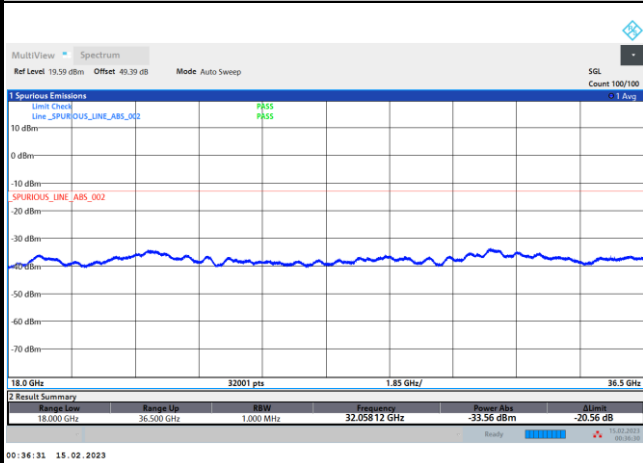
Remark: In band and out of band frequencies are omitted.



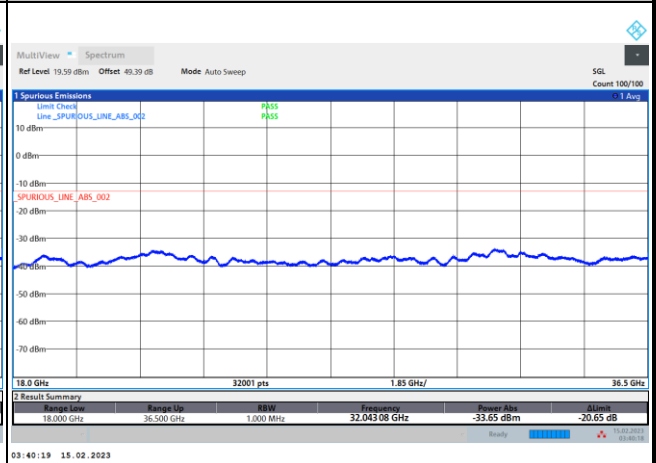
DFT-s-OFDM Module 0

NR Band n260 QPSK (18-40GHz)

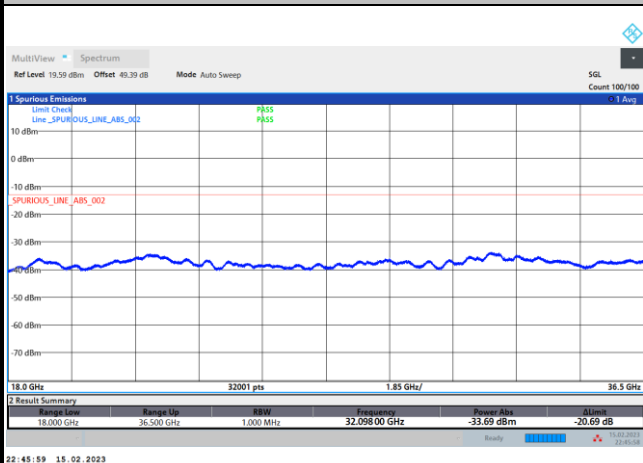
Lowest Channel / 200MHz



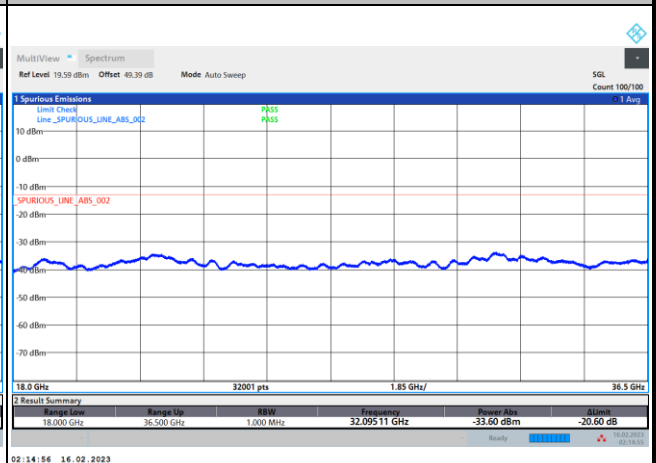
Lowest Channel / 300MHz



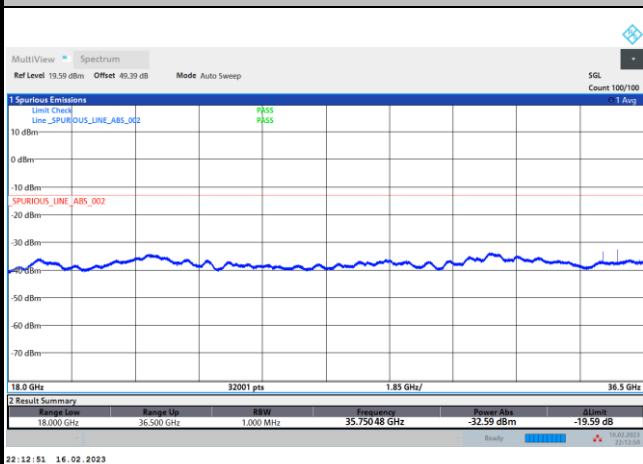
Middle Channel / 200MHz



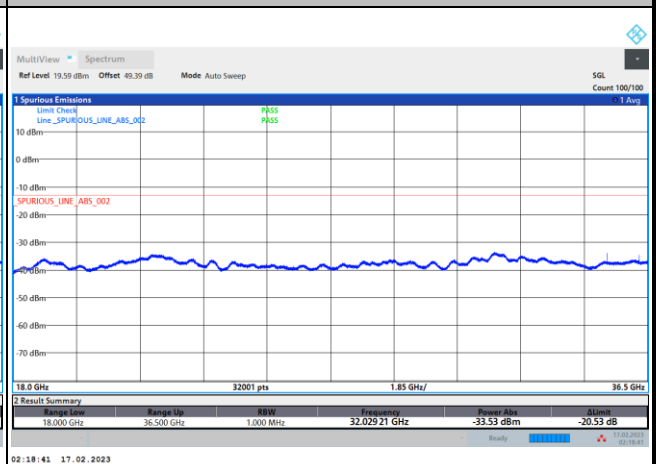
Middle Channel / 300MHz



Highest Channel / 200MHz



Highest Channel / 300MHz



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



DFT-s-OFDM Module 0

NR Band n260 QPSK (18-40GHz)													
<p>Lowest Channel / 400MHz</p> <p>MultiView Spectrum Ref Level 19.59 dBm Offset 49.39 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 32001 pts 1.85 GHz/ 36.5 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>Limit</th> </tr> </thead> <tbody> <tr> <td>18.000 GHz</td> <td>36.500 GHz</td> <td>1.000 MHz</td> <td>32.067 94 GHz</td> <td>-33.67 dBm</td> <td>-20.67 dB</td> </tr> </tbody> </table> <p>19:56:46 15.02.2023</p>	Range Low	Range Up	RBW	Frequency	Power Abs	Limit	18.000 GHz	36.500 GHz	1.000 MHz	32.067 94 GHz	-33.67 dBm	-20.67 dB	<p>intentionally blank</p>
Range Low	Range Up	RBW	Frequency	Power Abs	Limit								
18.000 GHz	36.500 GHz	1.000 MHz	32.067 94 GHz	-33.67 dBm	-20.67 dB								
<p>Middle Channel / 400MHz</p> <p>MultiView Spectrum Ref Level 19.59 dBm Offset 49.39 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 32001 pts 1.85 GHz/ 36.5 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>Limit</th> </tr> </thead> <tbody> <tr> <td>18.000 GHz</td> <td>36.500 GHz</td> <td>1.000 MHz</td> <td>32.058 12 GHz</td> <td>-33.54 dBm</td> <td>-20.54 dB</td> </tr> </tbody> </table> <p>20:31:33 16.02.2023</p>	Range Low	Range Up	RBW	Frequency	Power Abs	Limit	18.000 GHz	36.500 GHz	1.000 MHz	32.058 12 GHz	-33.54 dBm	-20.54 dB	<p>intentionally blank</p>
Range Low	Range Up	RBW	Frequency	Power Abs	Limit								
18.000 GHz	36.500 GHz	1.000 MHz	32.058 12 GHz	-33.54 dBm	-20.54 dB								
<p>Highest Channel / 400MHz</p> <p>MultiView Spectrum Ref Level 19.59 dBm Offset 49.39 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 32001 pts 1.85 GHz/ 36.5 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>Limit</th> </tr> </thead> <tbody> <tr> <td>18.000 GHz</td> <td>36.500 GHz</td> <td>1.000 MHz</td> <td>35.788 64 GHz</td> <td>-33.32 dBm</td> <td>-20.32 dB</td> </tr> </tbody> </table> <p>20:15:10 17.02.2023</p>	Range Low	Range Up	RBW	Frequency	Power Abs	Limit	18.000 GHz	36.500 GHz	1.000 MHz	35.788 64 GHz	-33.32 dBm	-20.32 dB	<p>intentionally blank</p>
Range Low	Range Up	RBW	Frequency	Power Abs	Limit								
18.000 GHz	36.500 GHz	1.000 MHz	35.788 64 GHz	-33.32 dBm	-20.32 dB								

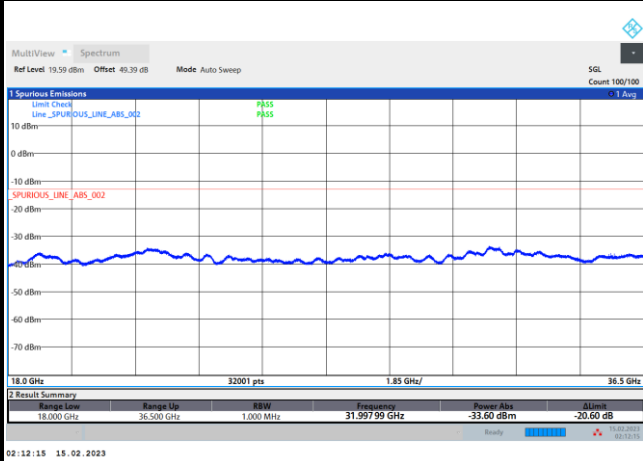
Remark: In band and out of band frequencies are omitted.



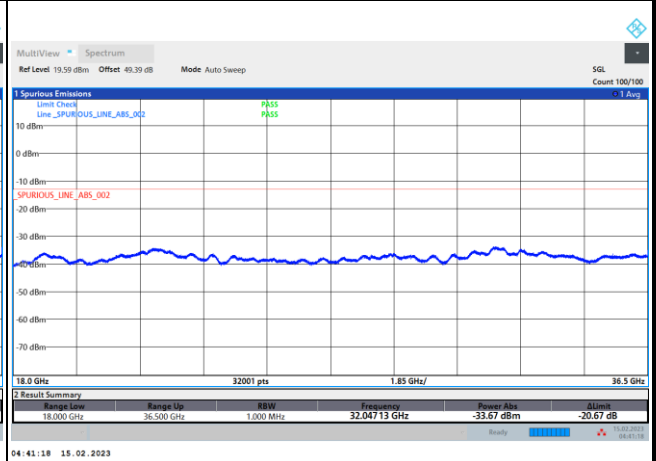
CP-OFDM Module 0

NR Band n260 QPSK (18-40GHz)

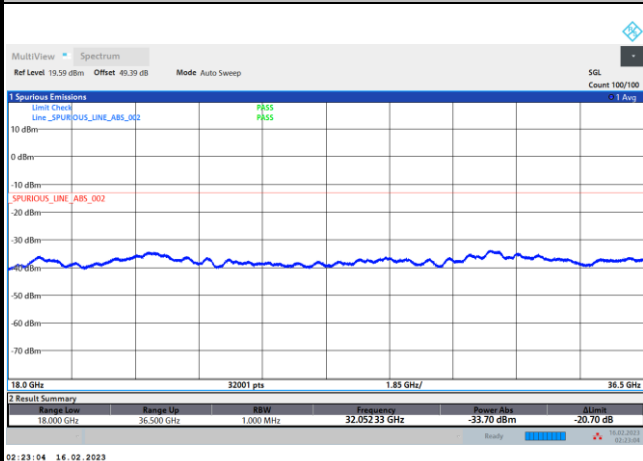
Lowest Channel / 200MHz



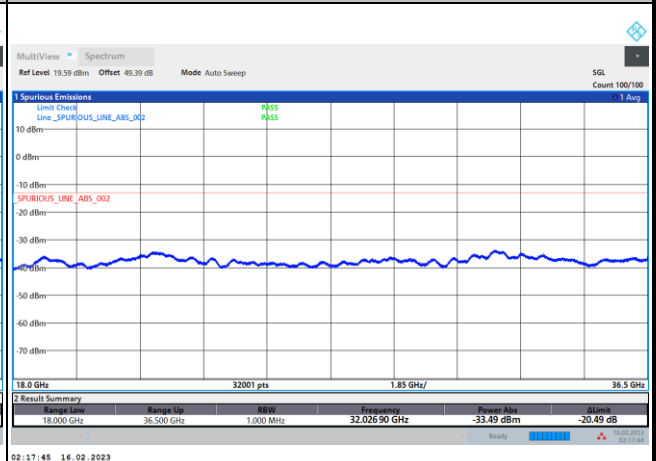
Lowest Channel / 300MHz



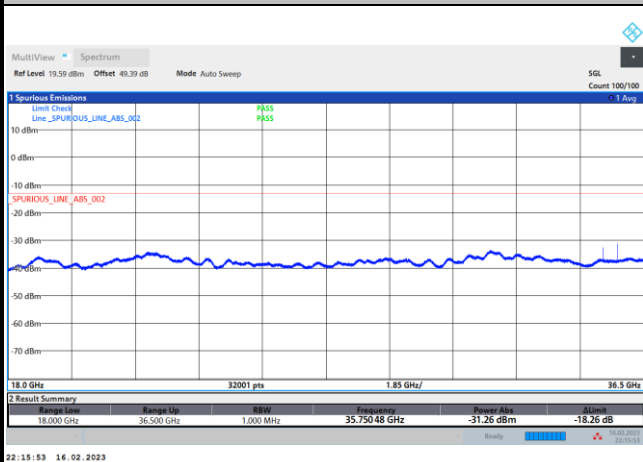
Middle Channel / 200MHz



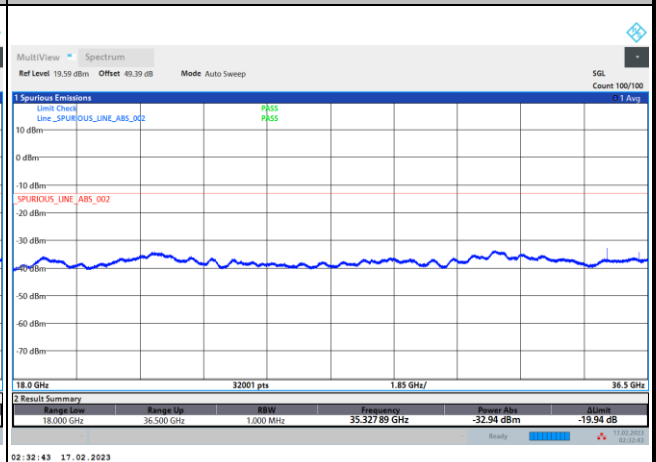
Middle Channel / 300MHz



Highest Channel / 200MHz



Highest Channel / 300MHz



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



CP-OFDM Module 0

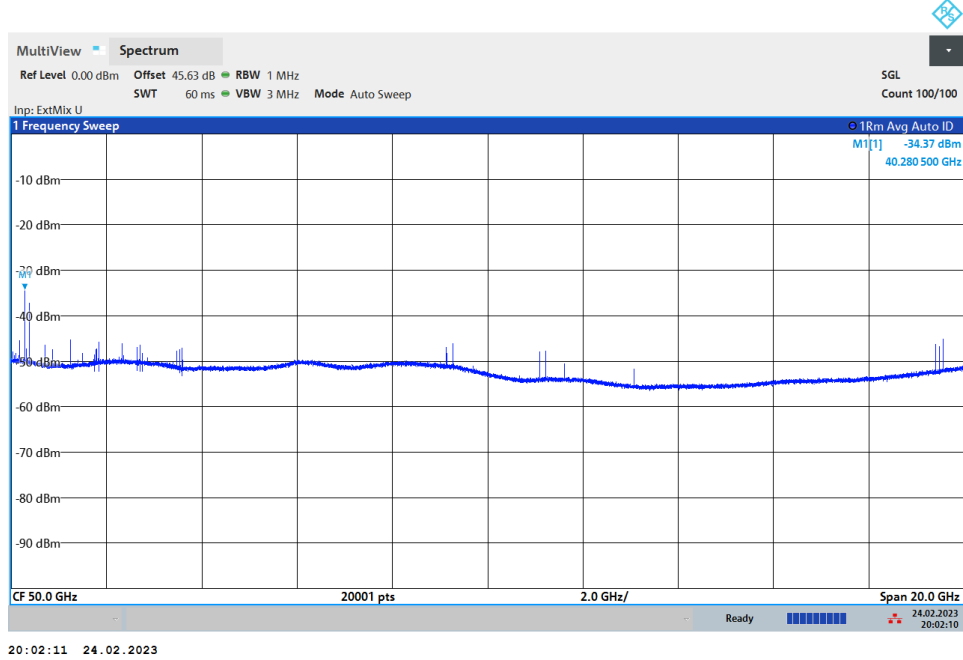
NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
<p>MultiView Spectrum Ref Level 19.59 dBm Offset 49.39 dB Mode Auto Sweep SGL Count 100/100</p> <p>Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_002 PASS</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>18.0 GHz 32001 pts 1.85 GHz/ 36.5 GHz</p> <p>Result Summary Range Low Range Up RBW Frequency Power Abs Alarm 18.000 GHz 36.500 GHz 1.000 MHz 32.02979 GHz -33.60 dBm -20.60 dB</p> <p>19:57:33 15.02.2023</p>	intentionally blank
Middle Channel / 400MHz	
<p>MultiView Spectrum Ref Level 19.59 dBm Offset 49.39 dB Mode Auto Sweep SGL Count 100/100</p> <p>Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_002 PASS</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>18.0 GHz 32001 pts 1.85 GHz/ 36.5 GHz</p> <p>Result Summary Range Low Range Up RBW Frequency Power Abs Alarm 18.000 GHz 36.500 GHz 1.000 MHz 32.05465 GHz -33.69 dBm -20.60 dB</p> <p>20:29:40 16.02.2023</p>	intentionally blank
Highest Channel / 400MHz	
<p>MultiView Spectrum Ref Level 19.59 dBm Offset 49.39 dB Mode Auto Sweep SGL Count 100/100</p> <p>Spurious Emissions Limit Check Line_SPURIOUS_LINE_ABS_002 PASS</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>18.0 GHz 32001 pts 1.85 GHz/ 36.5 GHz</p> <p>Result Summary Range Low Range Up RBW Frequency Power Abs Alarm 18.000 GHz 36.500 GHz 1.000 MHz 35.78864 GHz -32.08 dBm -19.08 dB</p> <p>20:36:18 17.02.2023</p>	intentionally blank

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



NR Band n260

(40GHz-60GHz)

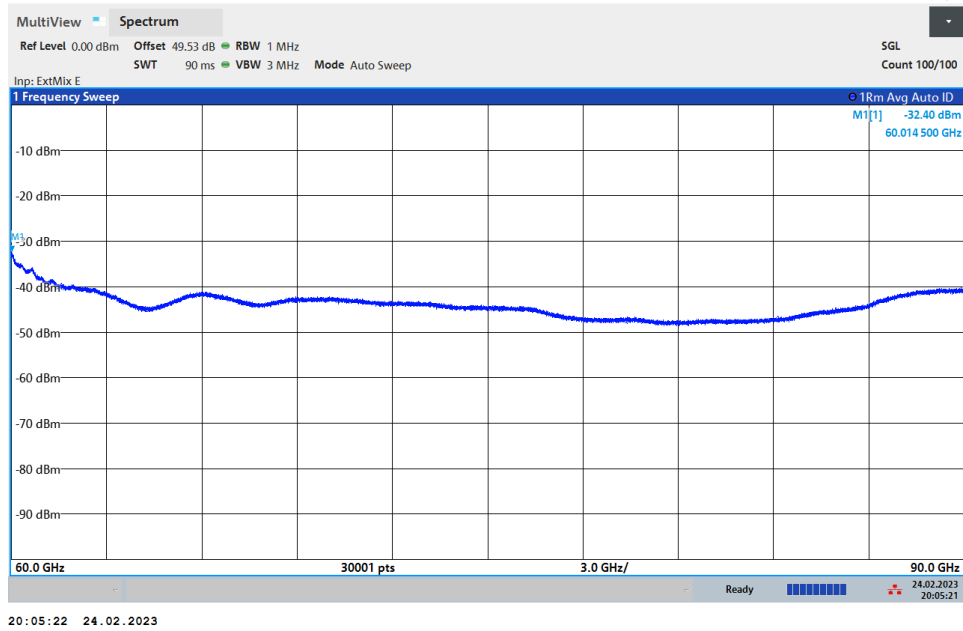


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 43 + 0.43 + 107 + 20\log(1) - 104.8 = 45.63 \text{ (dB)} \end{aligned}$$



NR Band n260

(60GHz-90GHz)

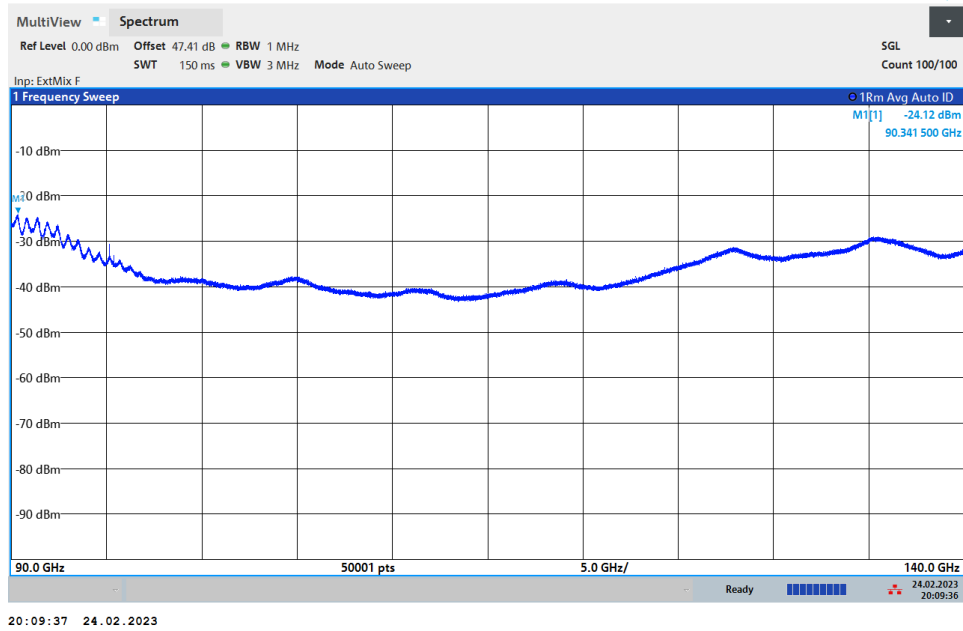


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$
$$= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 = 49.53 \text{ (dB)}$$



NR Band n260

(90GHz-140GHz)

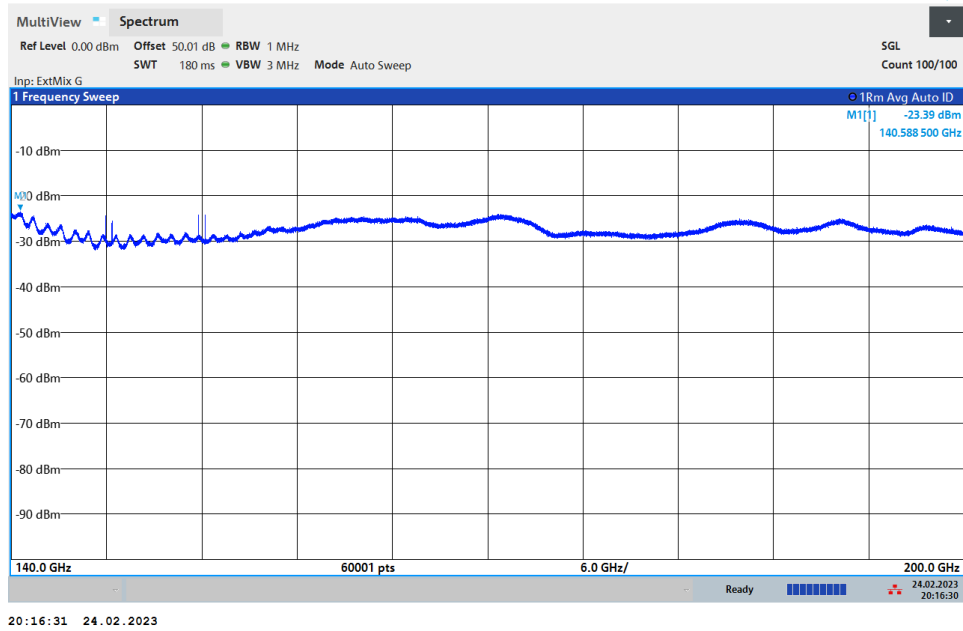


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 50.8 + 0.43 + 107 + 20\log(0.5) - 104.8 = 47.41 \text{ (dB)} \end{aligned}$$



NR Band n260

(140GHz-200GHz)



$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$
$$= 53.4 + 0.43 + 107 + 20\log(0.5) - 104.8 = 50.01 \text{ (dB)}$$



Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.449992	8.000	0.208	PASS
40	Normal Voltage	38.449971	29.000	0.753	
30	Normal Voltage	38.449986	14.000	0.364	
20(Ref.)	Normal Voltage	38.45	0.000	0.000	
10	Normal Voltage	38.449991	9.000	0.234	
0	Normal Voltage	38.4500629	-62.900	1.634	
-10	Normal Voltage	38.4501389	-138.900	3.608	
-20	Normal Voltage	38.4501798	-179.800	4.670	
-30	Normal Voltage	38.4502208	-220.800	5.735	
20	Maximum Voltage	38.449987	13.000	0.338	
20	Normal Voltage	38.449998	2.000	0.052	
20	Battery End Point	38.45002	-20.000	0.519	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the operation band.



NR Band n260 Module 1 AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n260 : 99%OBW(MHz)											
BW	200MHz				300MHz				400MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	187.60	187.81	187.83	187.65	288.67	287.40	287.73	287.43	385.09	384.94	384.61	385.83
Middle CH	186.50	187.05	186.72	186.77	285.75	286.77	285.93	286.18	387.58	386.66	386.70	387.21
Highest CH	186.87	186.71	186.37	186.53	286.03	286.01	285.52	286.74	388.15	387.54	387.43	387.16

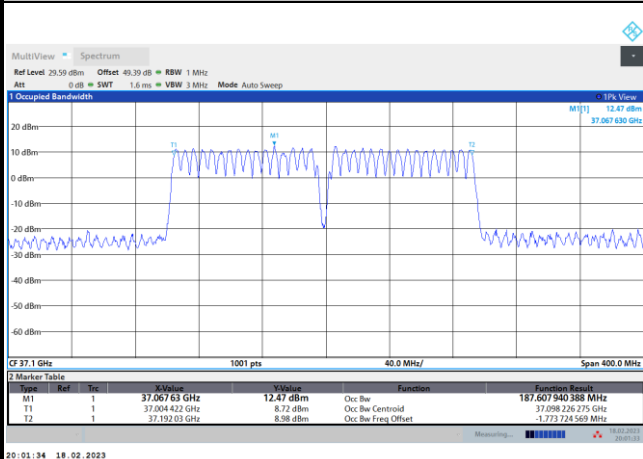
Mode	CP-OFDM Module 1 NR Band n260 : 99%OBW(MHz)		
BW	200MHz	300MHz	400MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	192.16	290.56	389.28
Middle CH	191.49	290.58	390.05
Highest CH	191.73	290.55	390.34



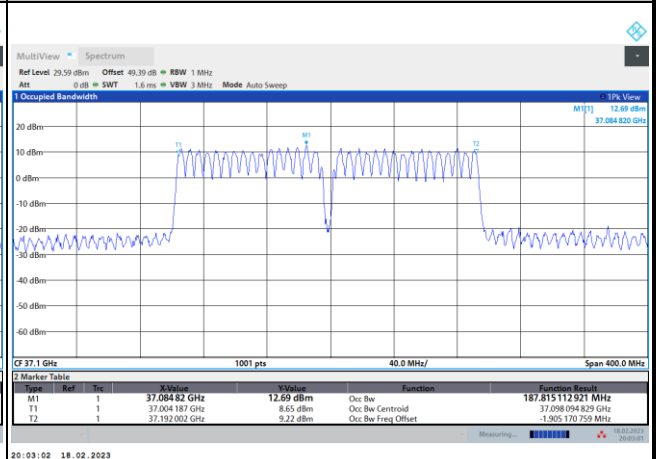
DFT-s-OFDM Module 1

NR Band n260

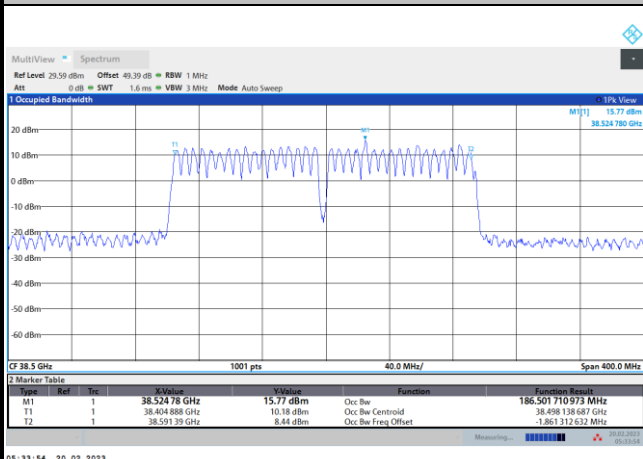
Lowest Channel / 200MHz / BPSK



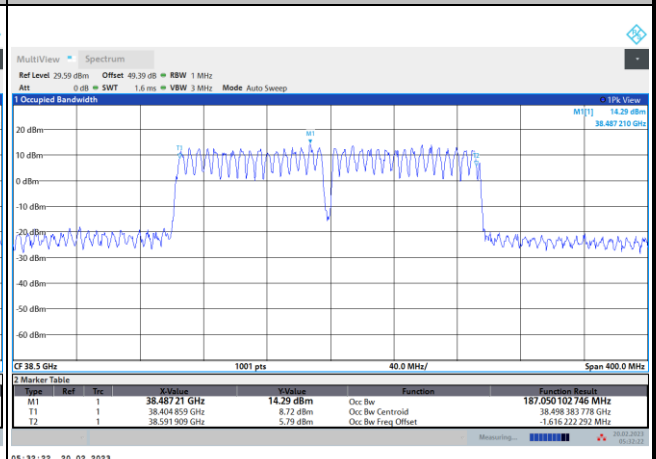
Lowest Channel / 200MHz / QPSK



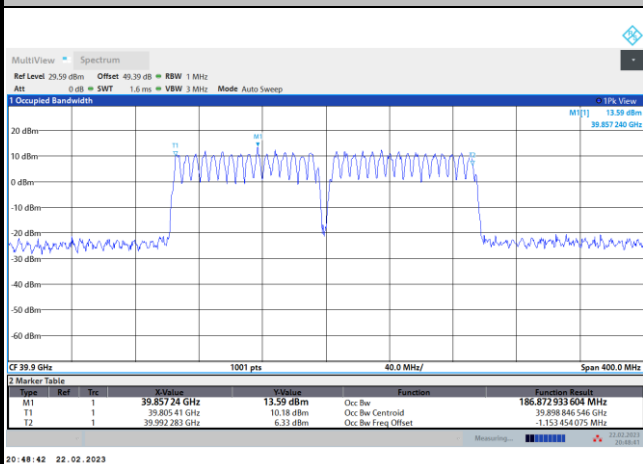
Middle Channel / 200MHz / BPSK



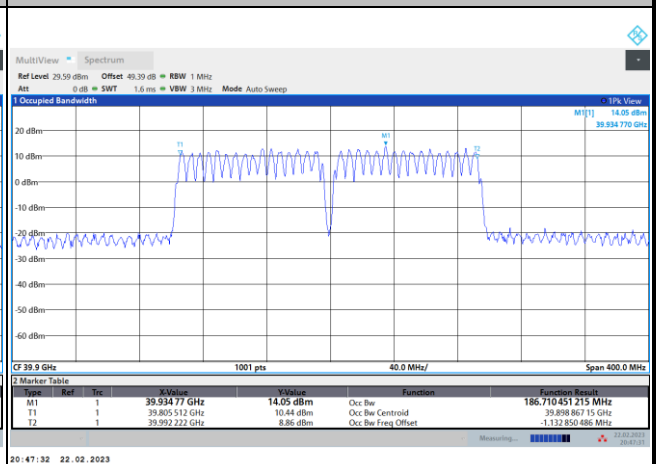
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

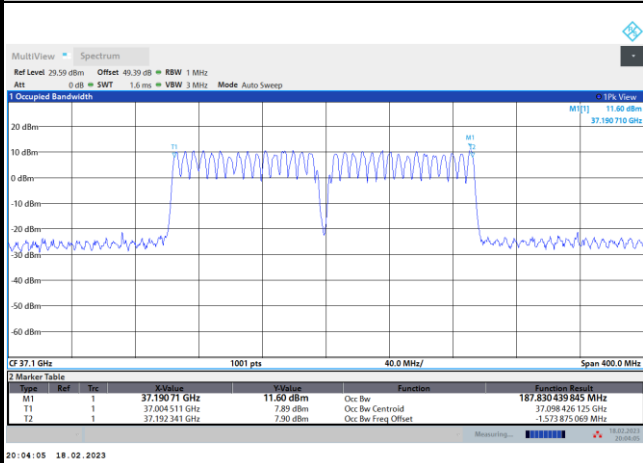




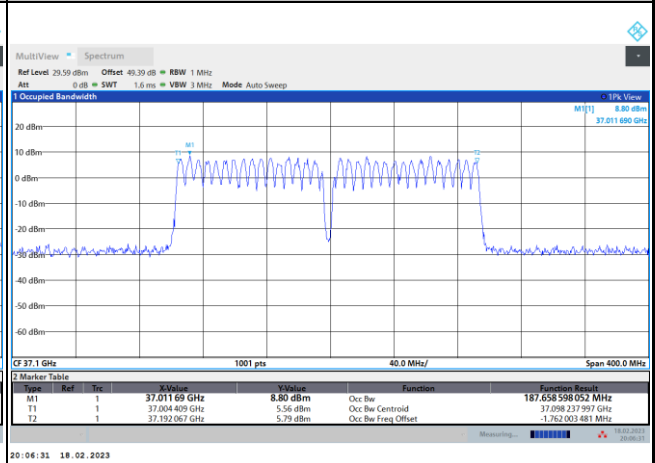
DFT-s-OFDM Module 1

NR Band n260

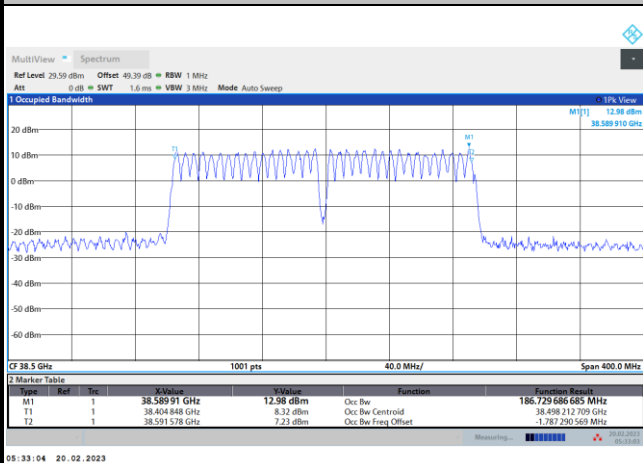
Lowest Channel / 200MHz / 16QAM



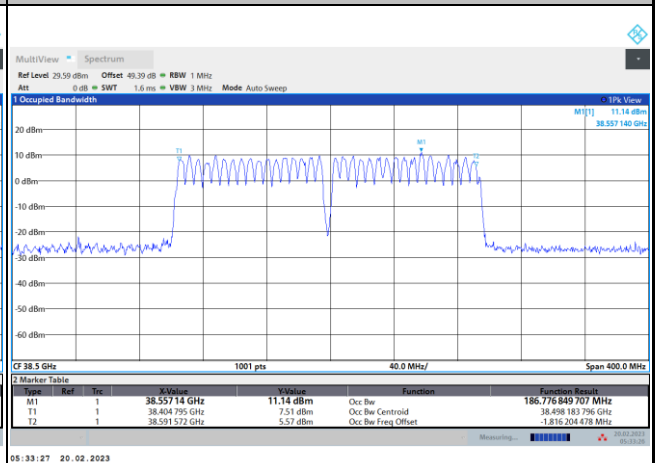
Lowest Channel / 200MHz / 64QAM



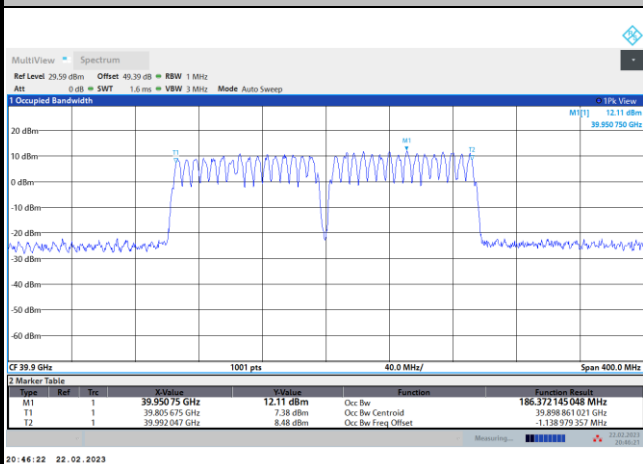
Middle Channel / 200MHz / 16QAM



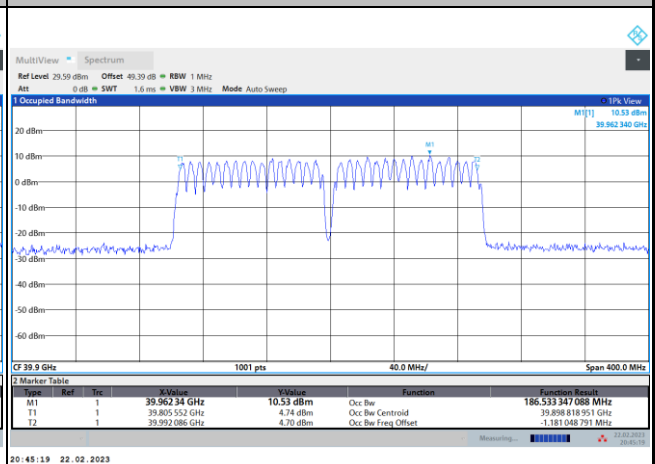
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM

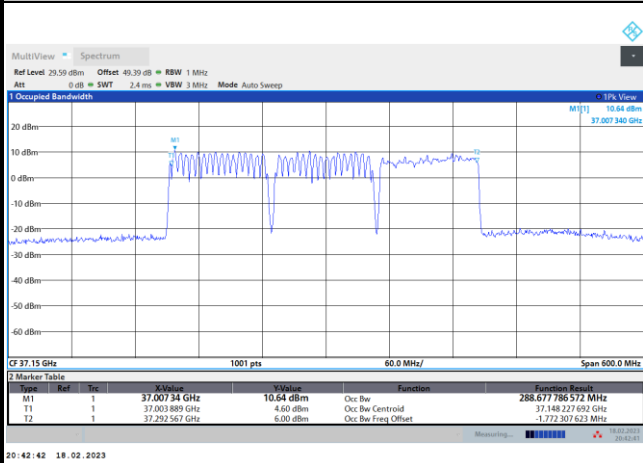




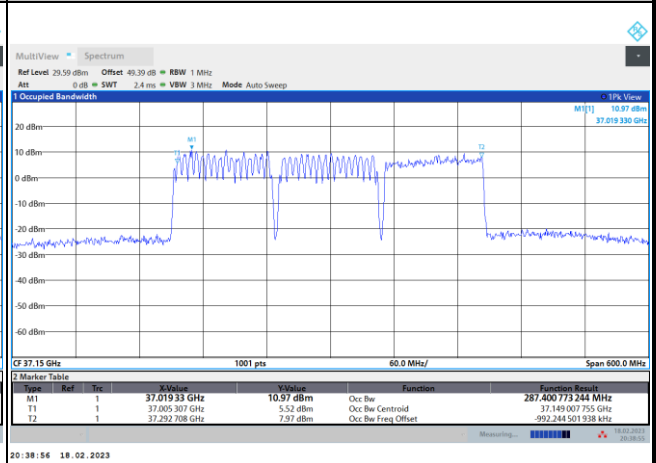
DFT-s-OFDM Module 1

NR Band n260

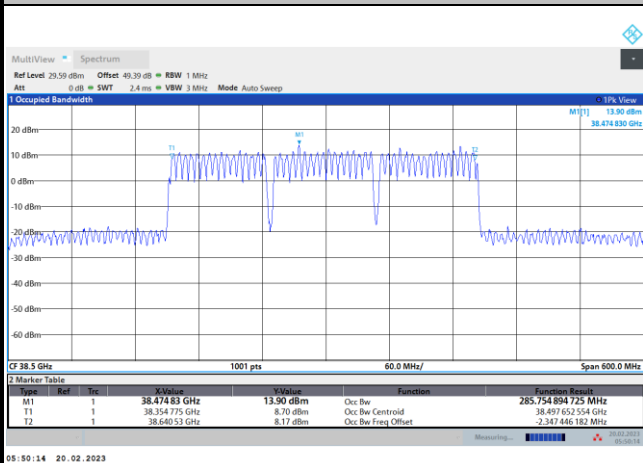
Lowest Channel / 300MHz / BPSK



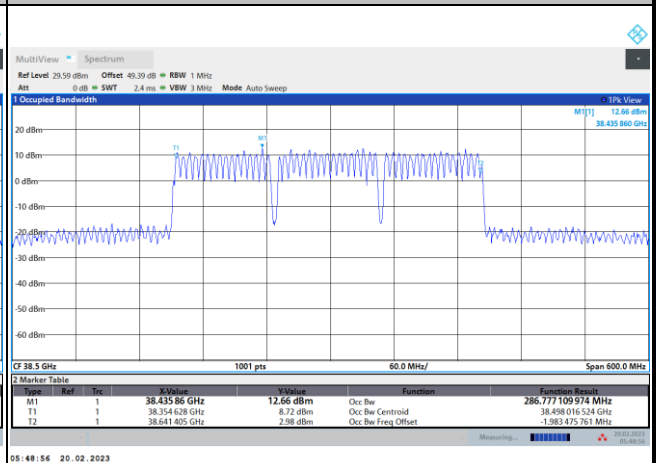
Lowest Channel / 300MHz / QPSK



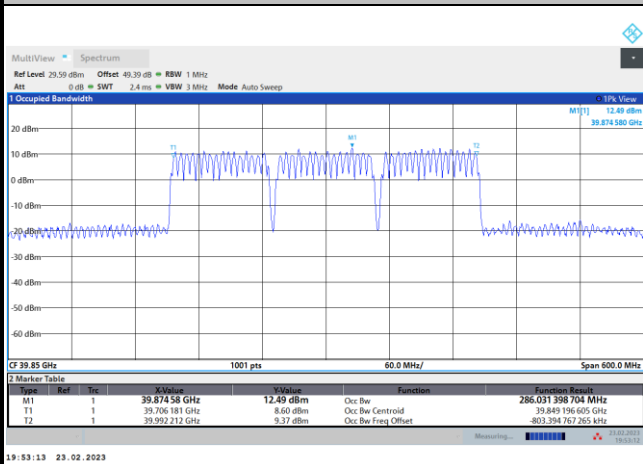
Middle Channel / 300MHz / BPSK



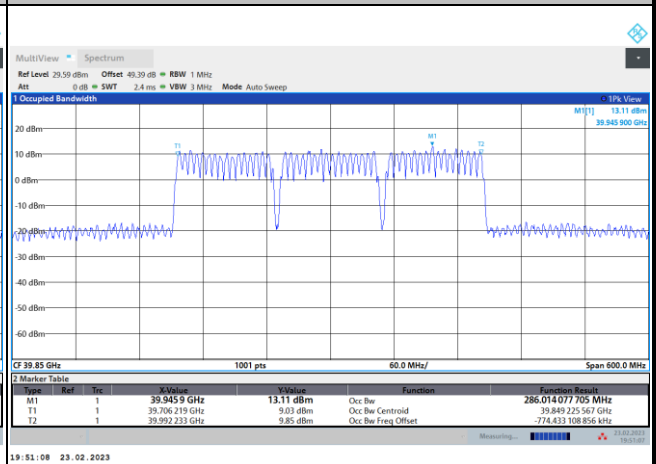
Middle Channel / 300MHz / QPSK



Highest Channel / 300MHz / BPSK



Highest Channel / 300MHz / QPSK

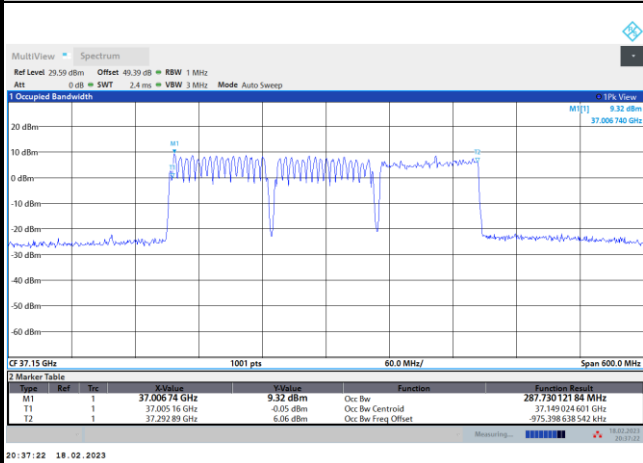




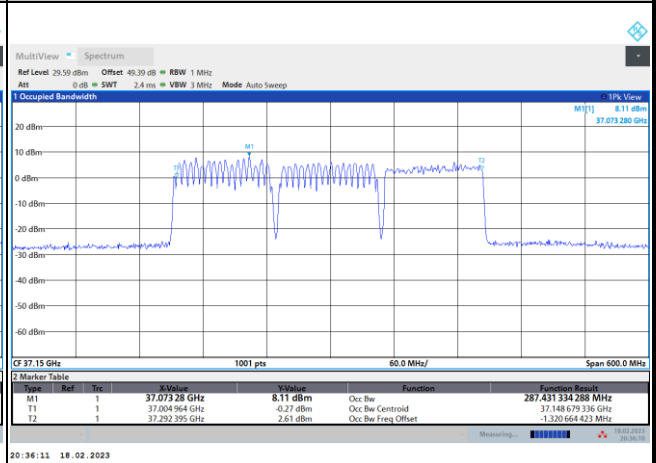
DFT-s-OFDM Module 1

NR Band n260

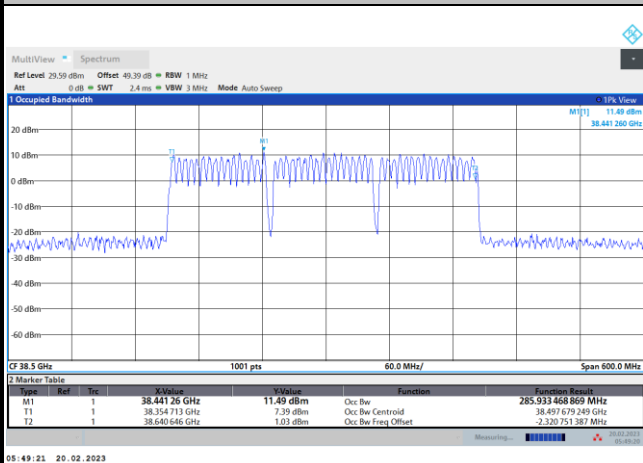
Lowest Channel / 300MHz / 16QAM



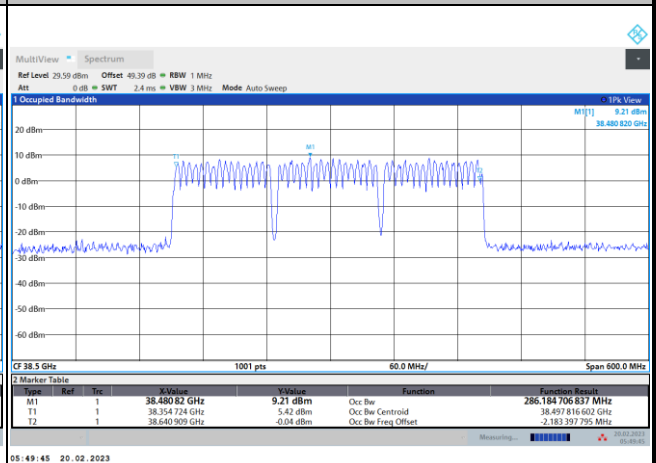
Lowest Channel / 300MHz / 64QAM



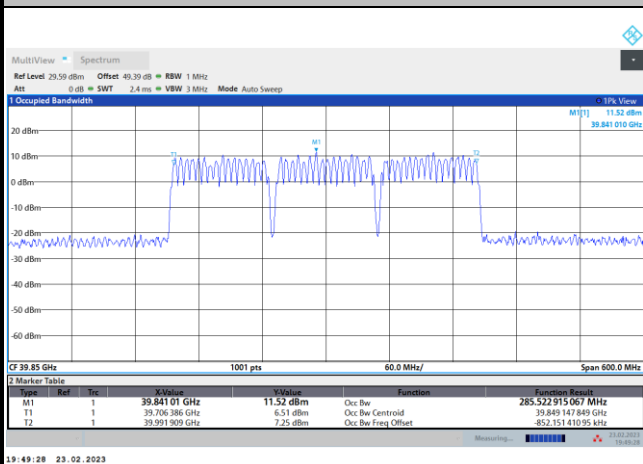
Middle Channel / 300MHz / 16QAM



Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM

