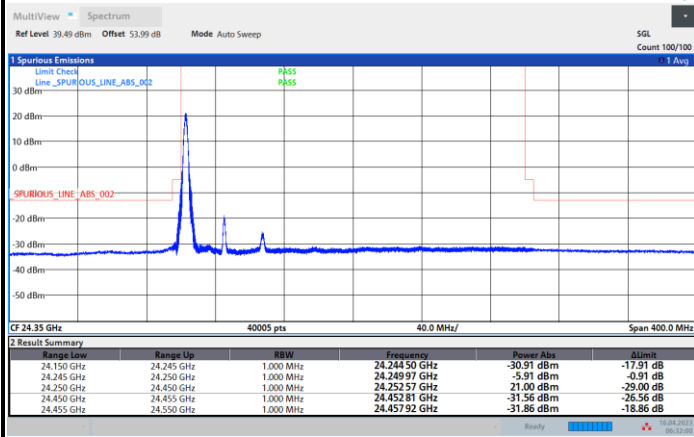




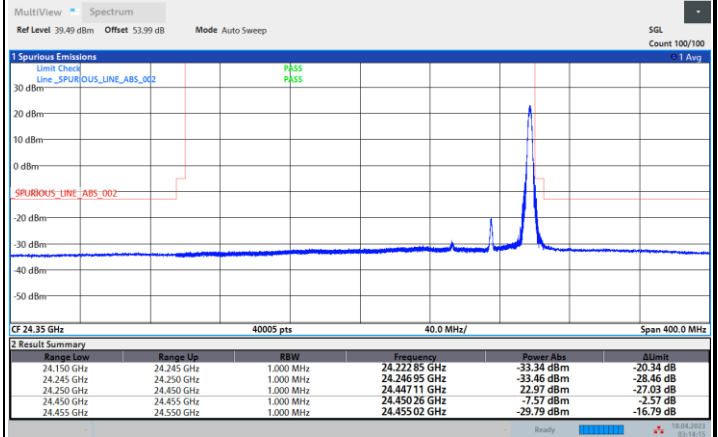
CP-OFDM Module B

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / 1 RB

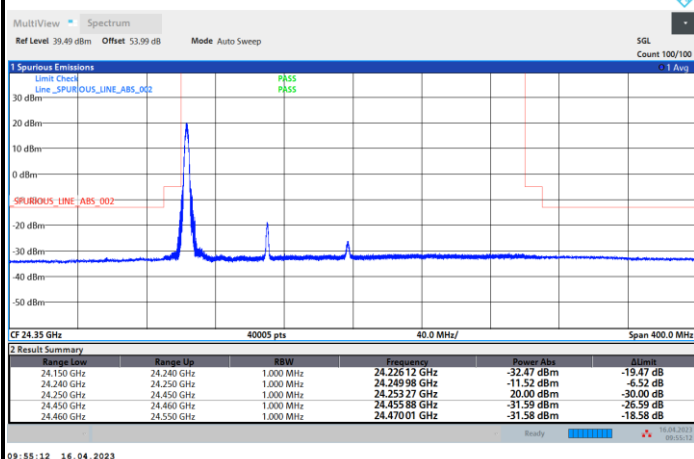


Highest Band Edge / 1 RB

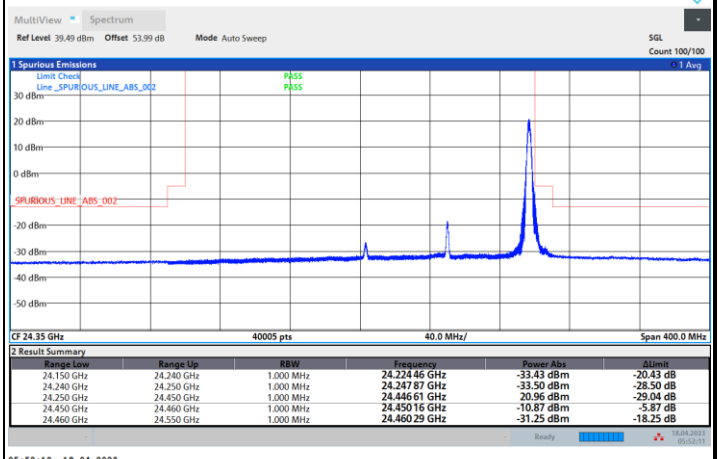


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

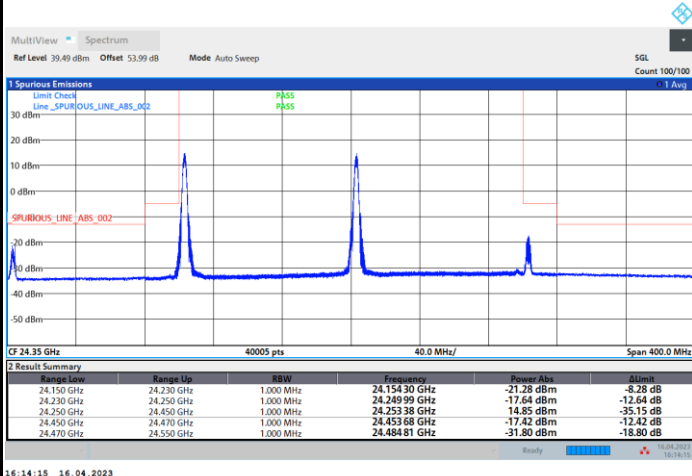




CP-OFDM Module B

NR Band n258A/ 200MHz / QPSK

Middle Band Edge / 1 RB



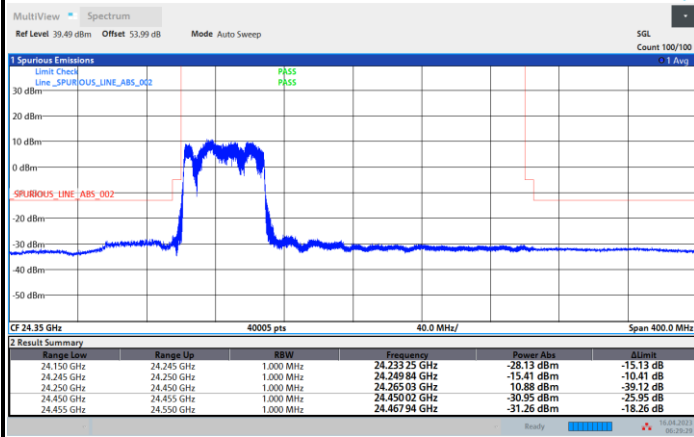
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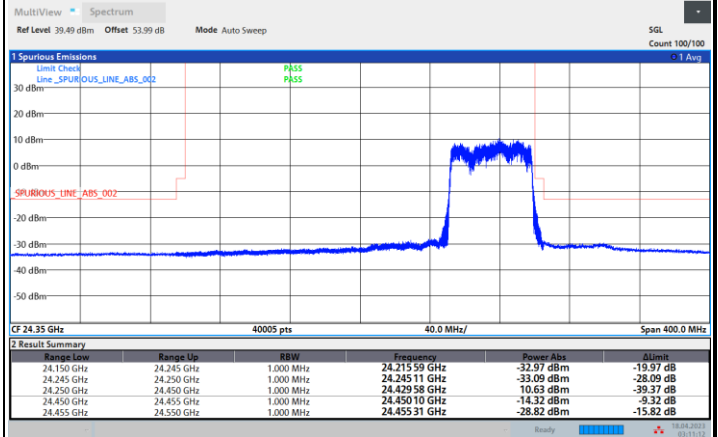
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / Full RB

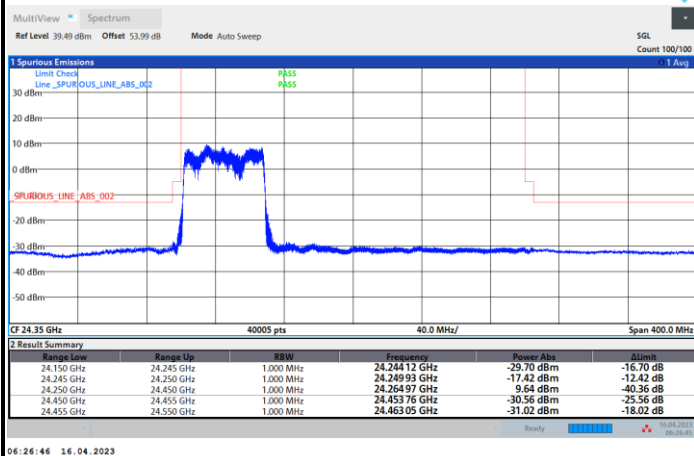


Highest Band Edge / Full RB

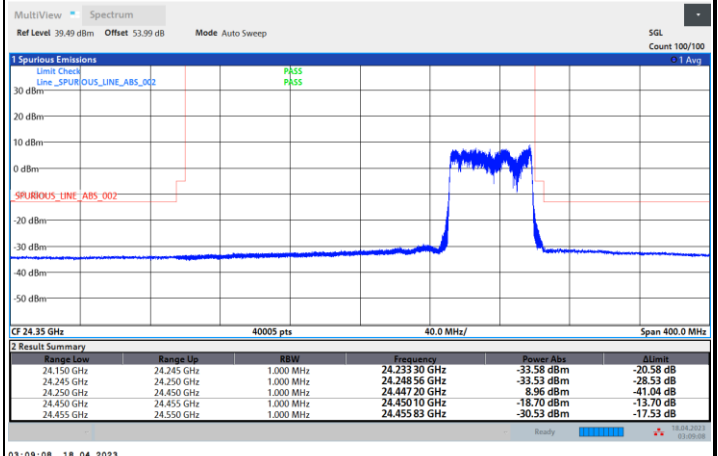


NR Band n258A/ 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

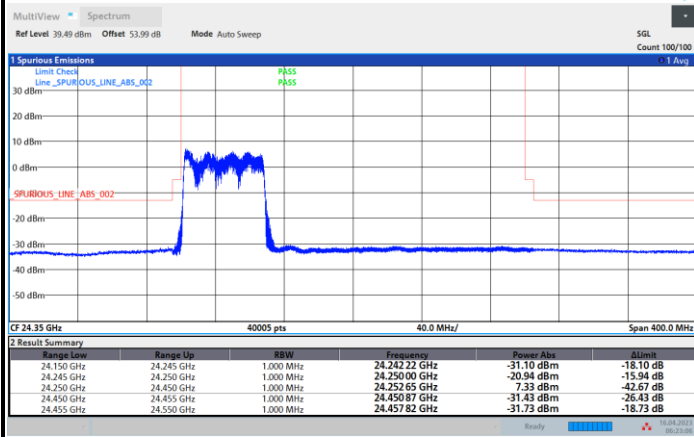




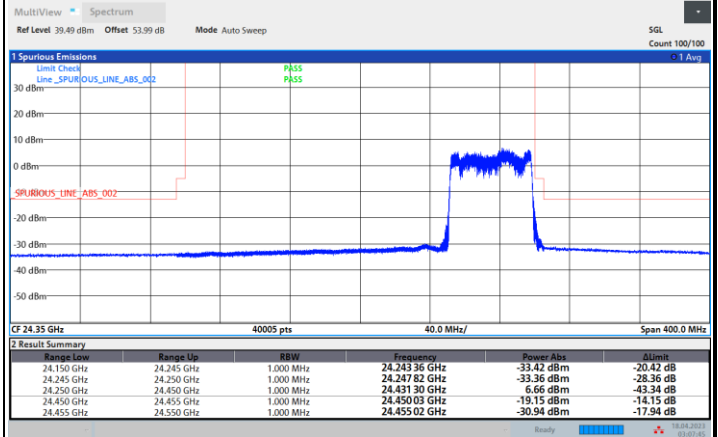
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / 64QAM

Lowest Band Edge / Full RB

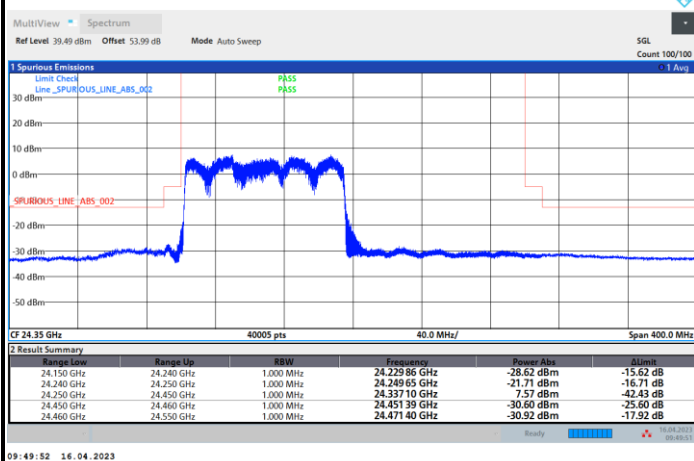


Highest Band Edge / Full RB

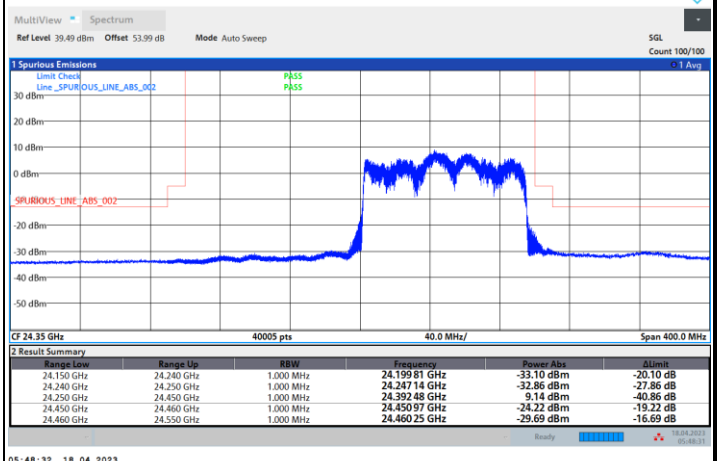


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

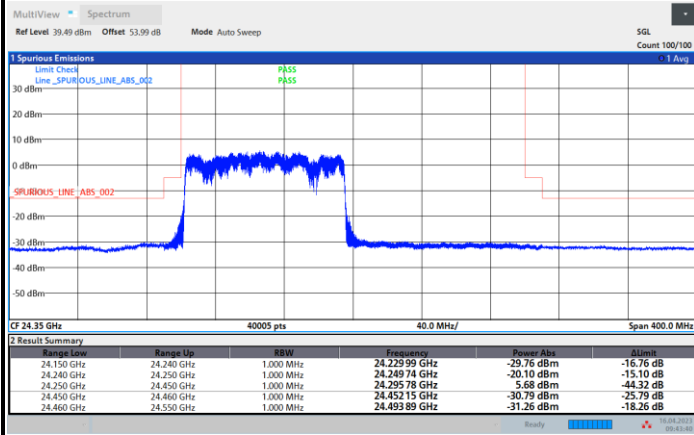




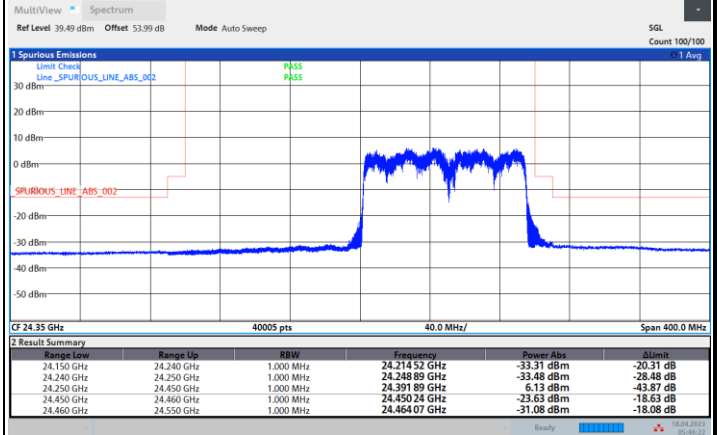
DFT-s-OFDM Module B

NR Band n258A/ 100MHz / 16QAM

Lowest Band Edge / Full RB

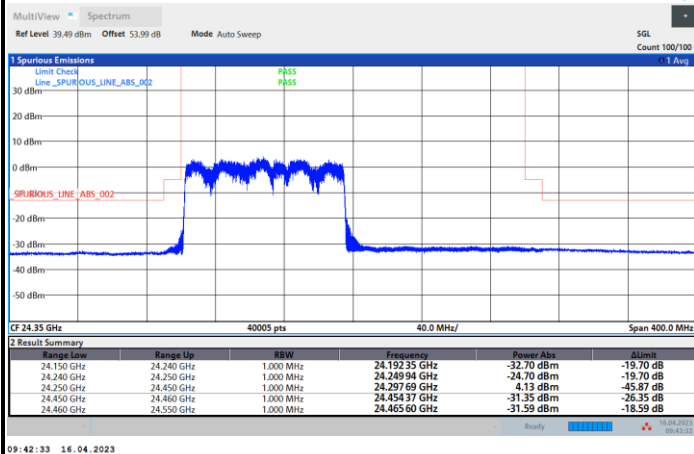


Highest Band Edge / Full RB

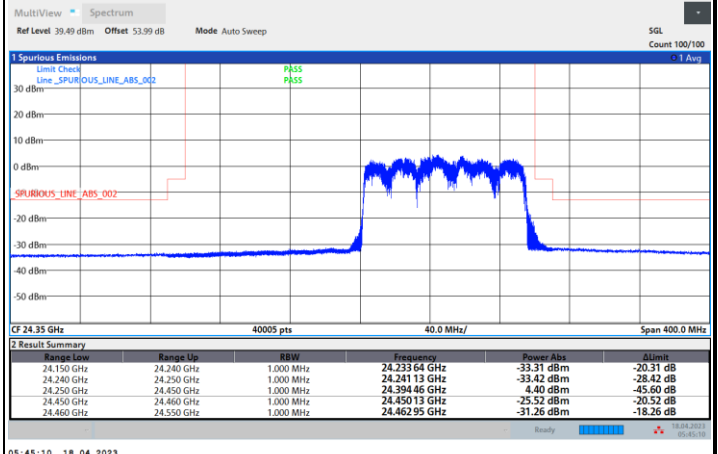


NR Band n258A/ 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

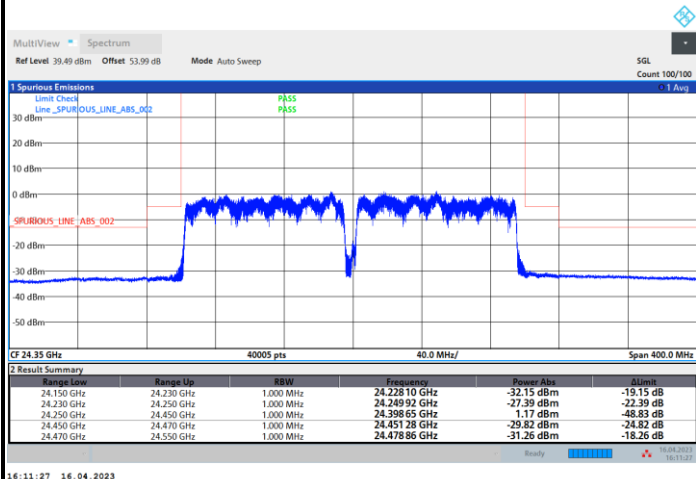




DFT-s-OFDM Module B

NR Band n258A/ 200MHz / QPSK

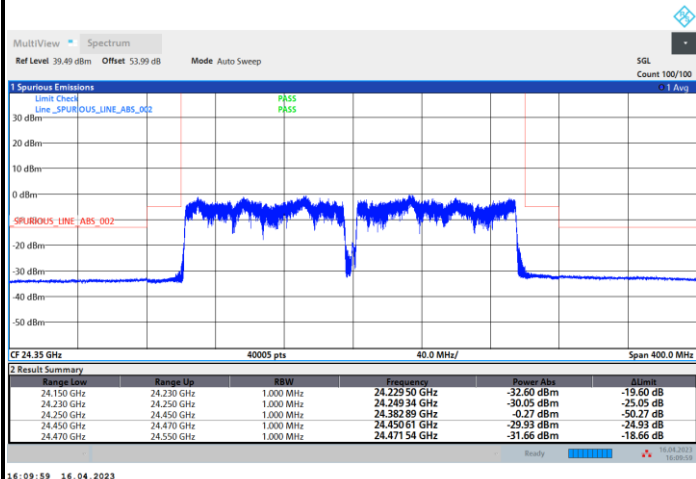
Middle Band Edge / Full RB



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NR Band n258A/ 200MHz / 16QAM

Middle Band Edge / Full RB



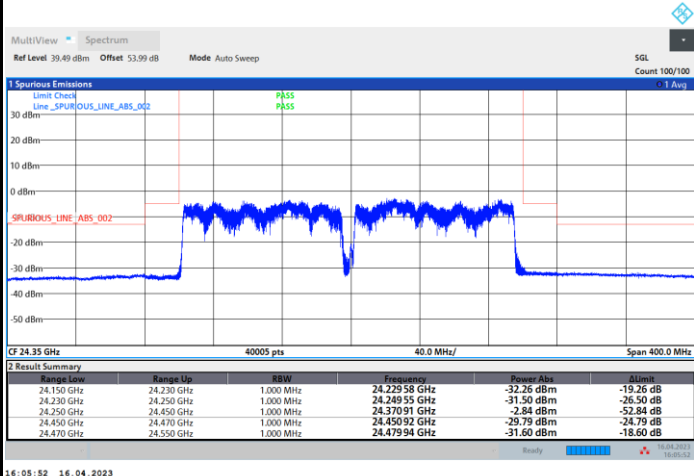
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DFT-s-OFDM Module B

NR Band n258A/ 200MHz / 64QAM

Middle Band Edge / Full RB



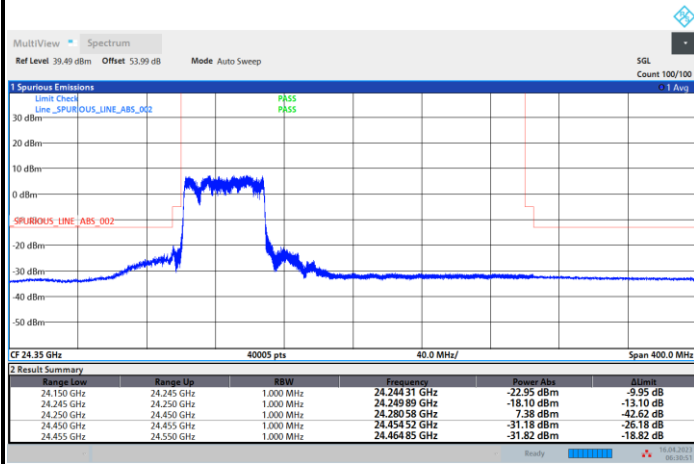
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CP-OFDM Module B

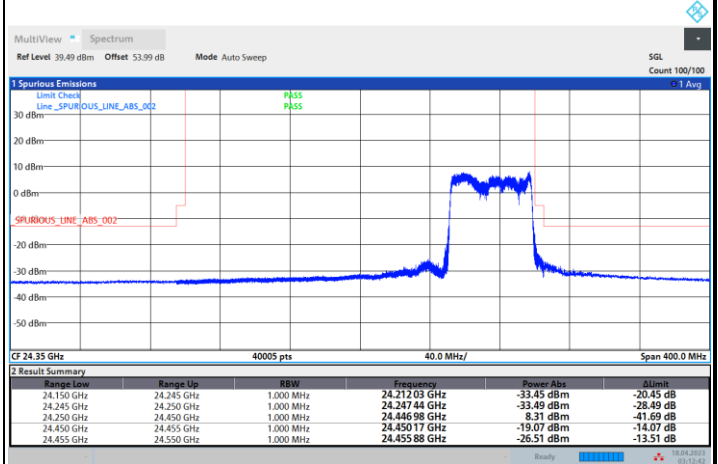
NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / Full RB



06:30:51 16.04.2023

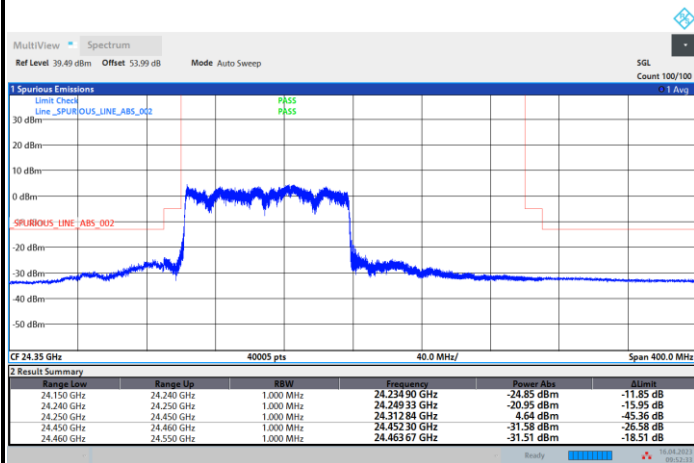
Highest Band Edge / Full RB



03:12:43 18.04.2023

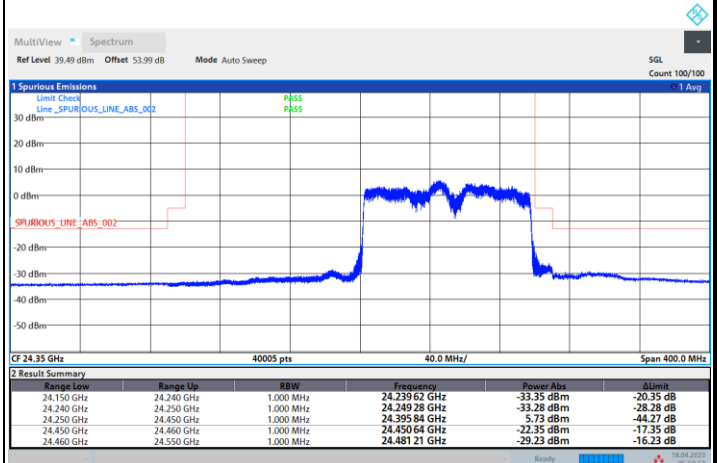
NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / Full RB



09:52:33 16.04.2023

Highest Band Edge / Full RB



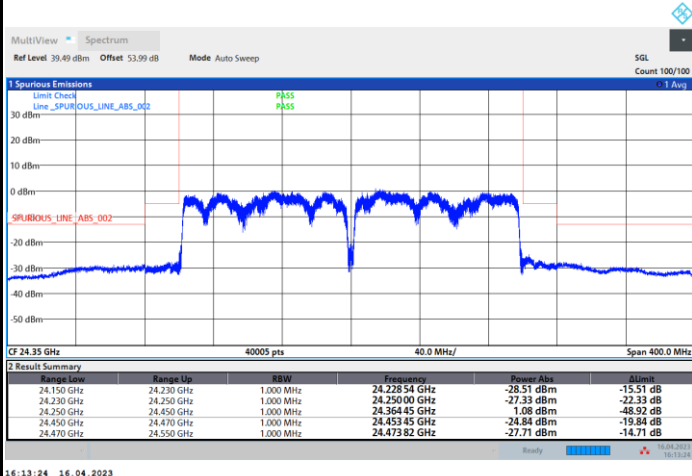
05:50:52 18.04.2023



CP-OFDM Module B

NR Band n258A/ 200MHz / QPSK

Middle Band Edge / Full RB



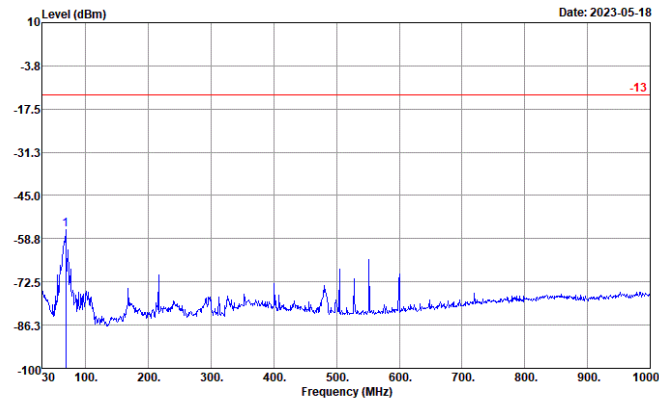
intentionally blank



Spurious Emission

NR Band n258A (30MHz-1GHz)

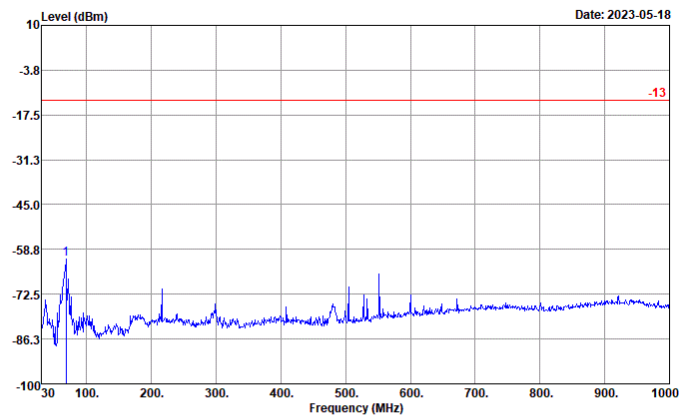
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0208-01
 : n258a MB

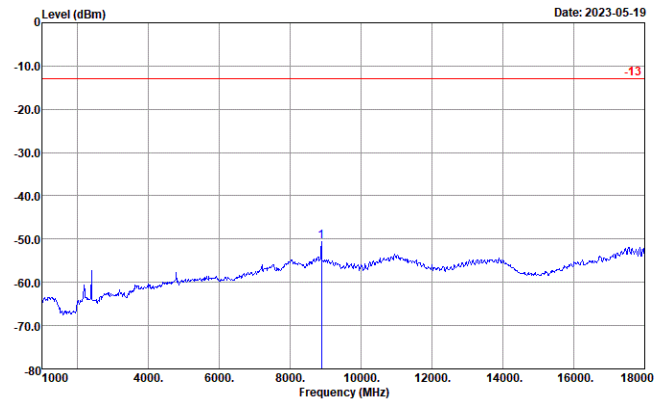
			Over	Limit	Read
Freq	Level		Limit	Line	Level
	MHz	dBm	dB	dBm	dBm
1	67.83	-55.96	-42.96	-13.00	-51.00

Vertical



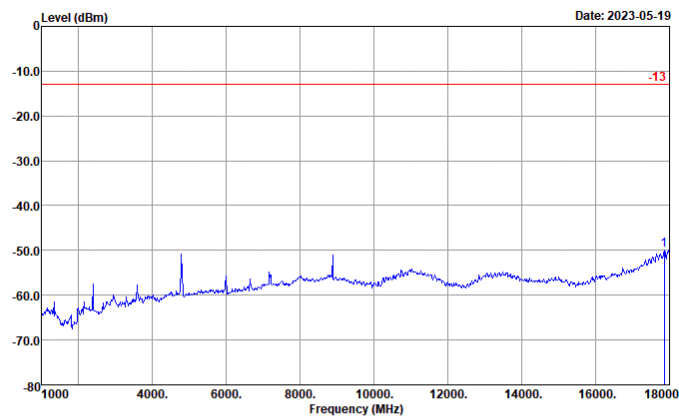
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0208-01
 : n258a MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	67.83	-61.62	-48.62	-13.00	-53.44

**NR Band n258A (1GHz-18GHz)****Horizontal**

Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0208-01
 : n258a MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	8888.00	-50.52	-37.52	-13.00	-51.31

Vertical

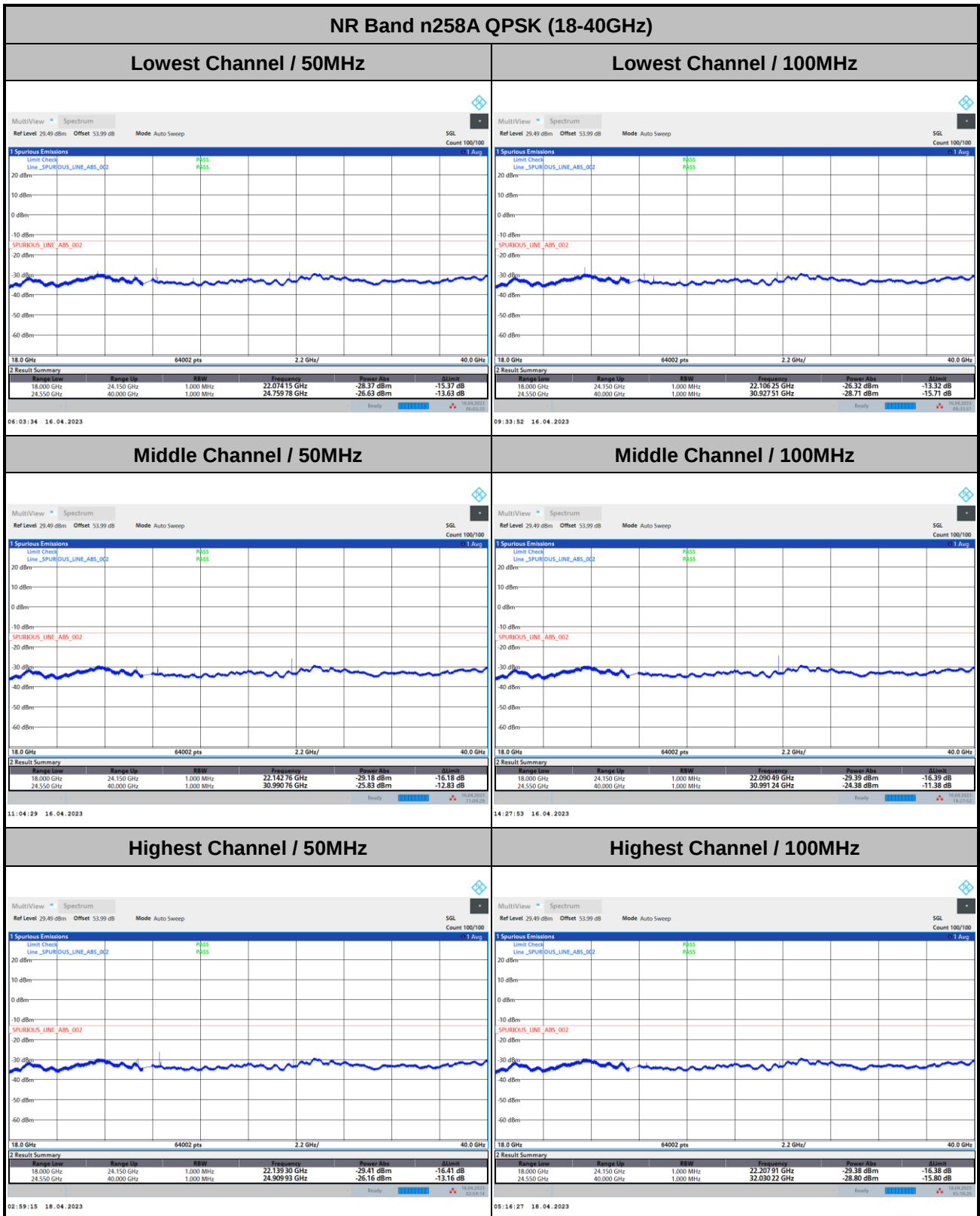
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0208-01
 : n258a MB

F12500.MD					
	Freq	Level	Over Limit	Read Level	
	MHz	dBm	dB	dBm	
1	17864.00	-49.86	-36.86	-13.00	-66.57



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

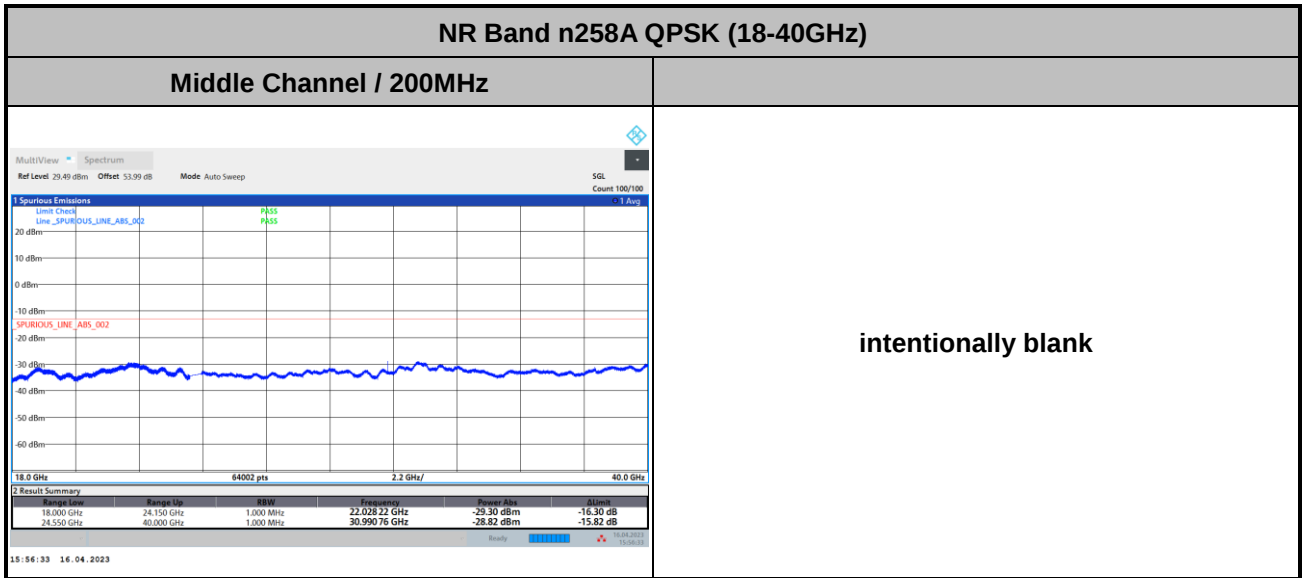
DFT-s-OFDM Module B



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



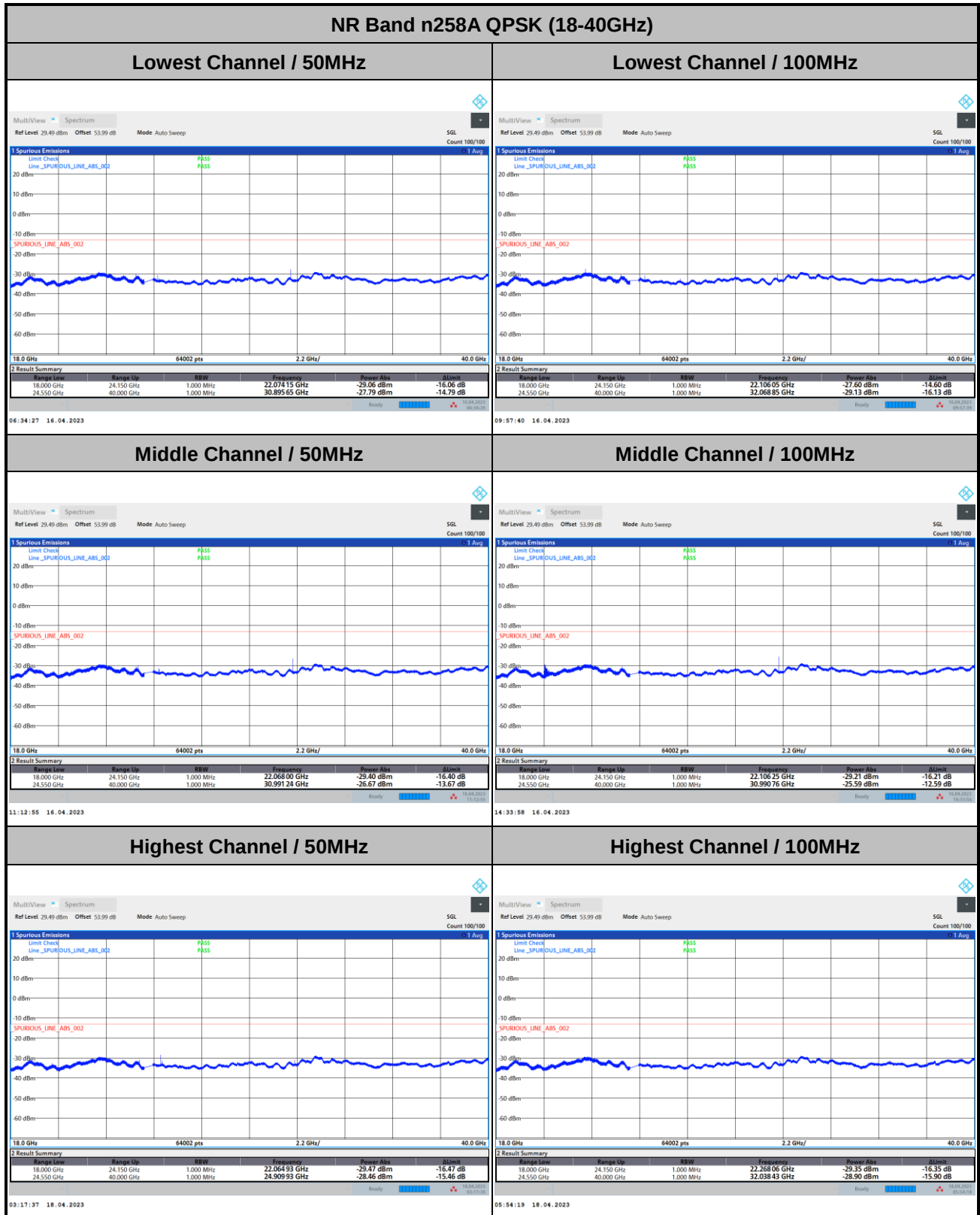
DFT-s-OFDM Module B



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



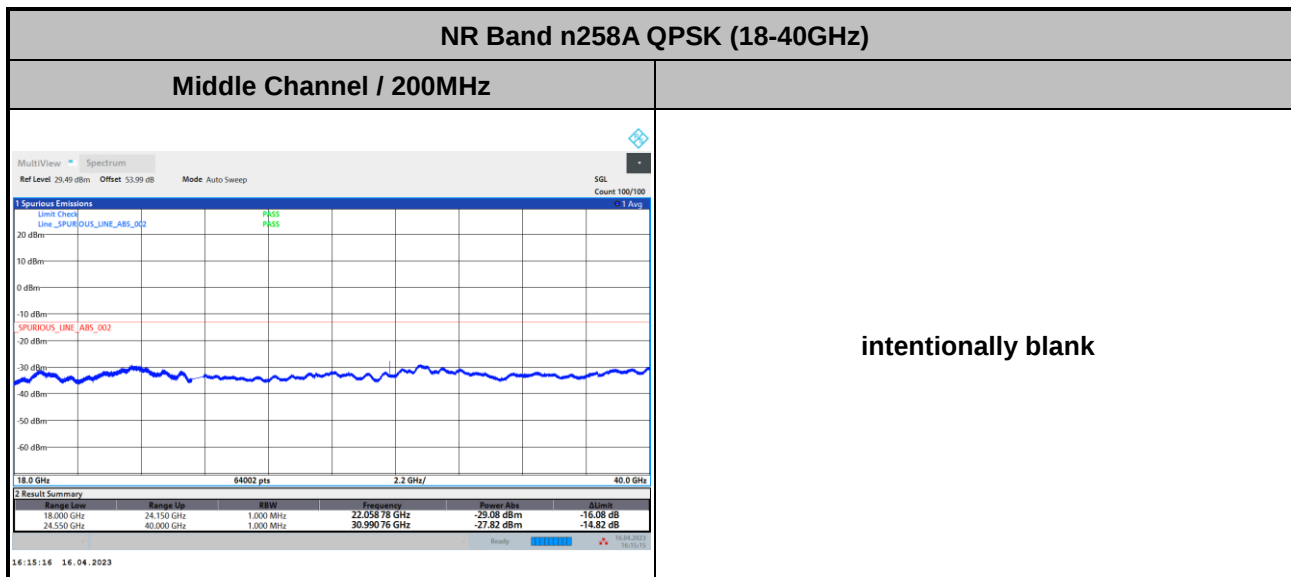
CP-OFDM Module B



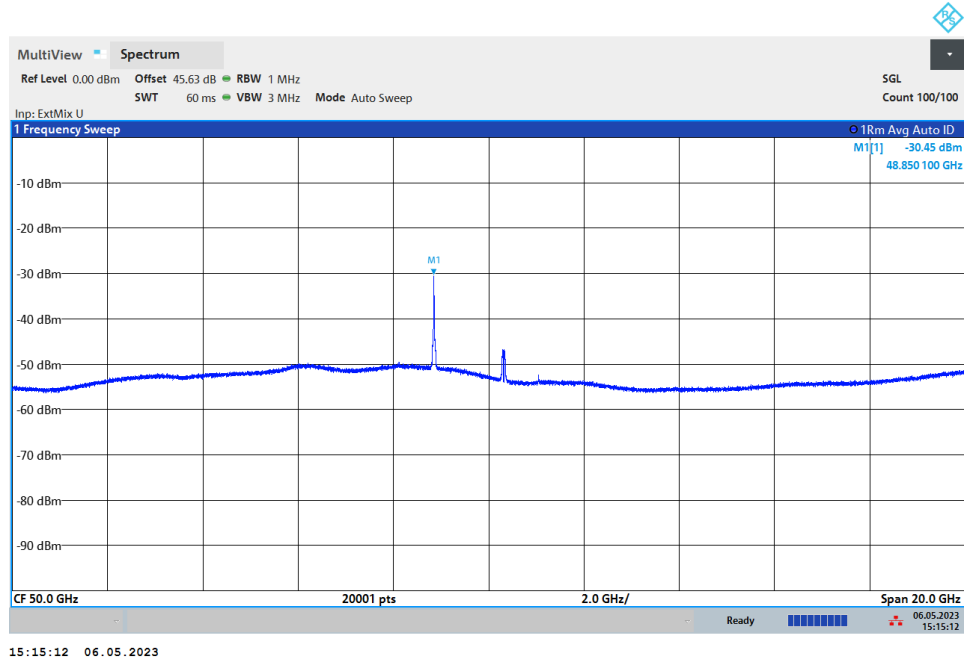
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module B

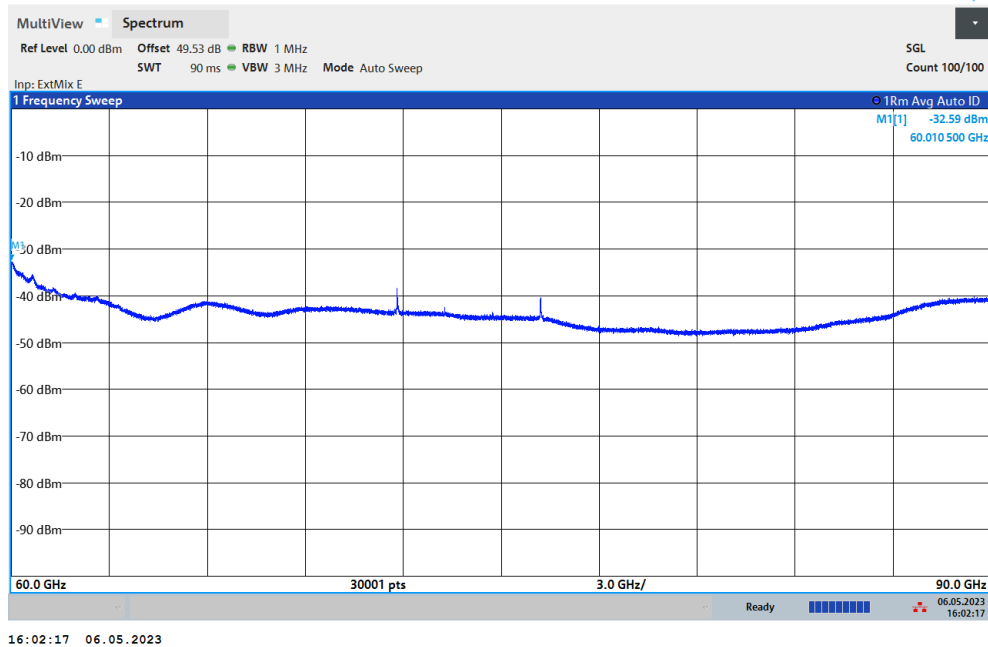


Remark: In band and out of band frequencies are omitted.

NR Band n258A
(40GHz-60GHz)


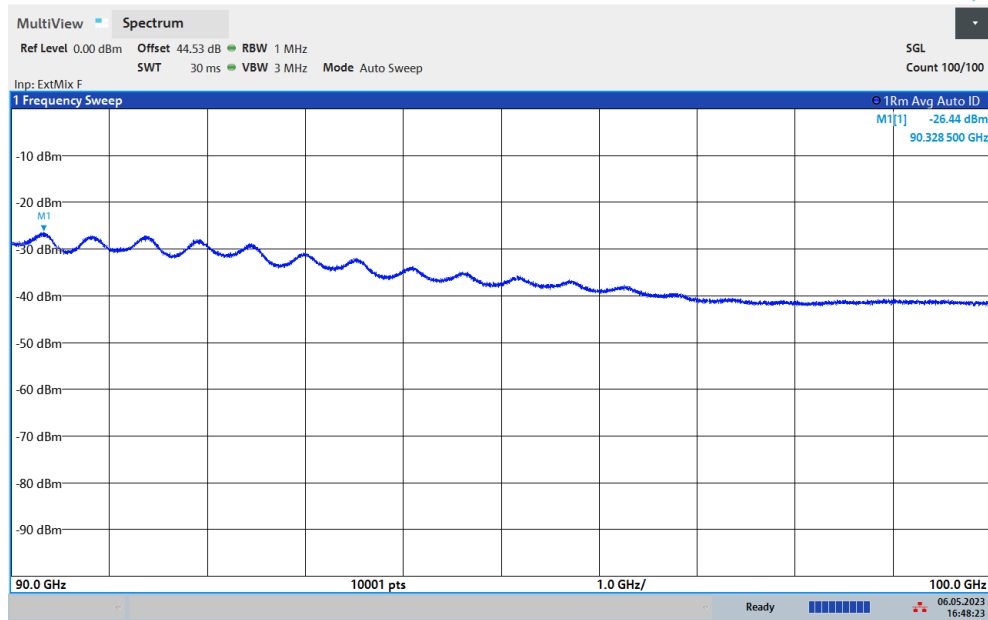
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor}$$

$$= 43 + 0.43 + 107 + 20\log(1) - 104.8 = 45.63(\text{dB})$$

NR Band n258A
(60GHz-90GHz)


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

$$= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 = 49.53 \text{ (dB)}$$

NR Band n258A
(90GHz-100GHz)


16:48:23 06.05.2023

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 47.92 + 0.43 + 107 + 20\log(0.5) - 104.8 = 44.53 \text{ (dB)} \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n258A / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.350012	-12.000	0.430	Pass
40	Normal Voltage	24.350027	-27.000	0.967	
30	Normal Voltage	24.35004	-40.000	1.432	
20(Ref.)	Normal Voltage	24.35	0.000	0.000	
10	Normal Voltage	24.3500639	-63.900	2.288	
0	Normal Voltage	24.3500999	-99.900	3.577	
-10	Normal Voltage	24.3501189	-118.900	4.258	
-20	Normal Voltage	24.3501419	-141.900	5.081	
-30	Normal Voltage	24.3501538	-153.800	5.508	
20	Maximum Voltage	24.3500519	-51.900	1.859	
20	Normal Voltage	24.3500529	-52.900	1.894	
20	Battery End Point	24.35005	-50.000	1.791	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the operation band.

NR Band n258b Module A AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n258b : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	46.10	45.86	45.76	91.19	91.04	91.38	190.18	190.21	190.35
Middle CH	45.89	45.87	45.97	91.10	91.08	91.07	190.46	190.35	190.06
Highest CH	46.02	46.02	46.01	91.01	91.12	91.06	189.85	190.65	190.78

Mode	DFT-s-OFDM Module A NR Band n258b : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	289.30	289.12	289.25	387.81	387.41	387.37
Middle CH	288.24	288.12	288.55	388.07	388.11	388.21
Highest CH	289.57	289.77	289.77	388.03	388.43	388.71

Mode	CP-OFDM Module A NR Band n258b : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.00	94.17	193.44
Middle CH	45.94	94.08	193.17
Highest CH	46.09	94.00	193.87

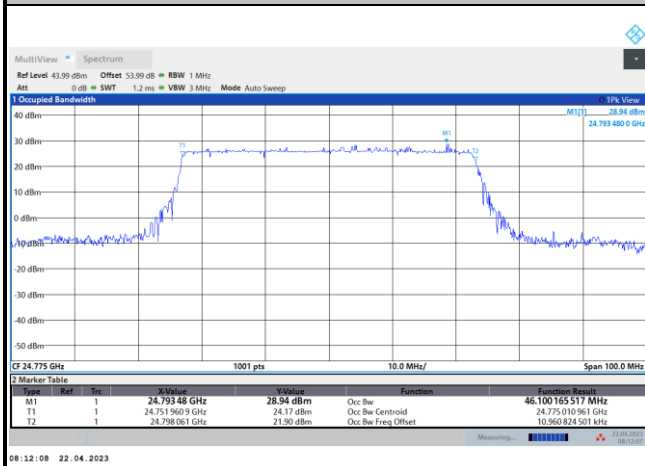
Mode	CP-OFDM Module A NR Band n258b : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	292.78	392.36
Middle CH	291.73	391.34
Highest CH	293.64	392.92



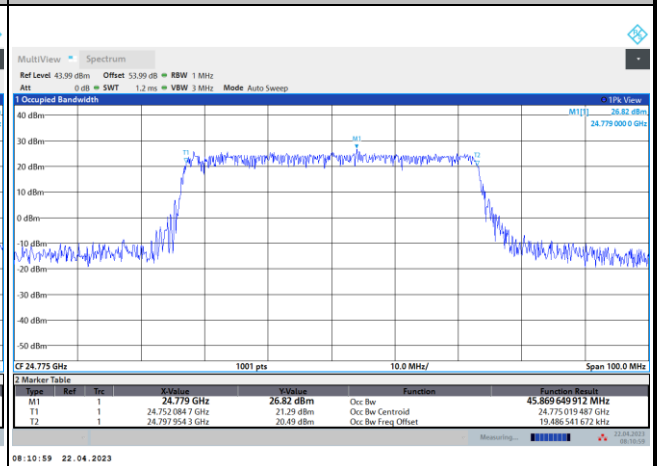
DFT-s-OFDM Module A

NR Band n258b

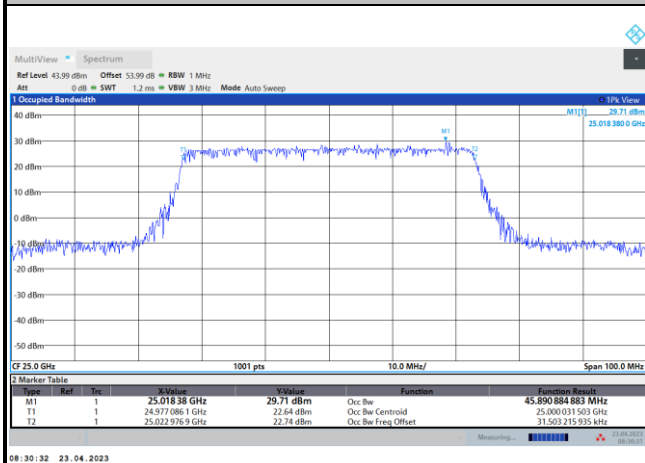
Lowest Channel / 50MHz / QPSK



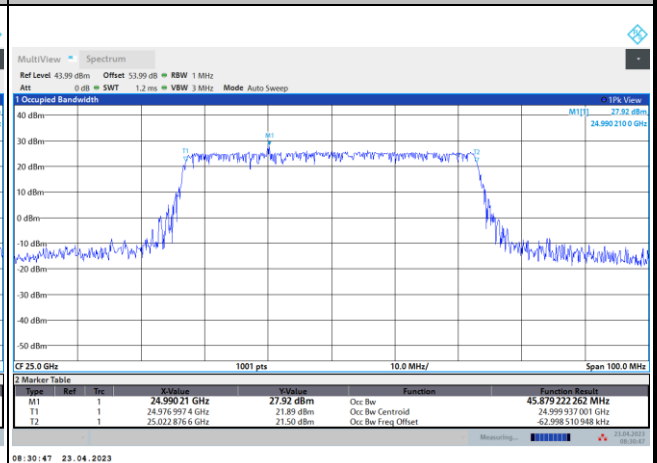
Lowest Channel / 50MHz / 16QAM



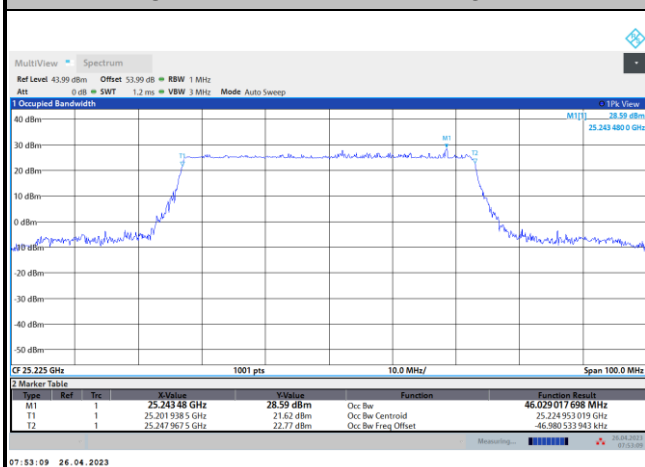
Middle Channel / 50MHz / QPSK



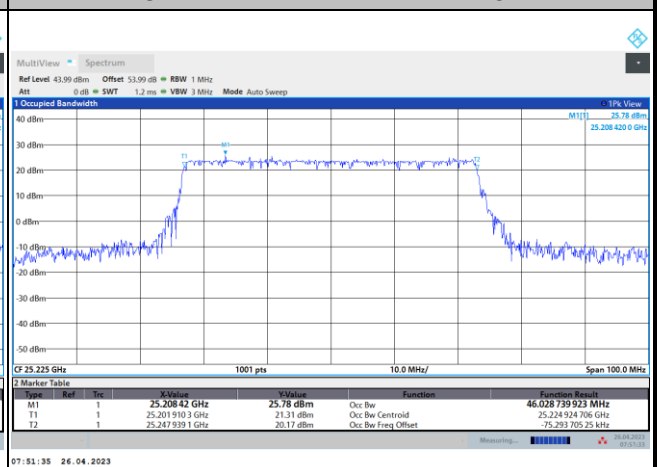
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

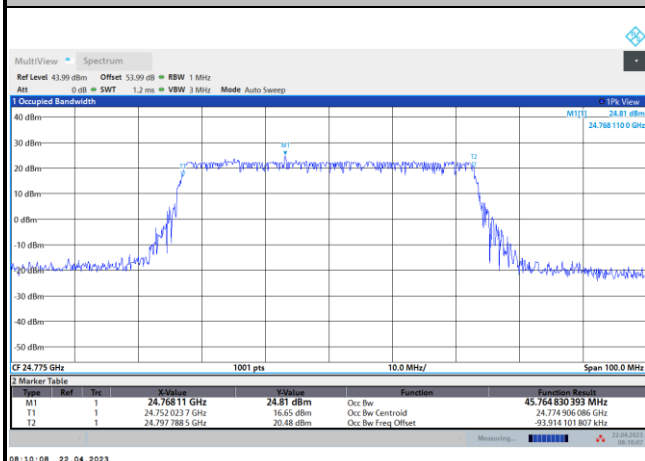




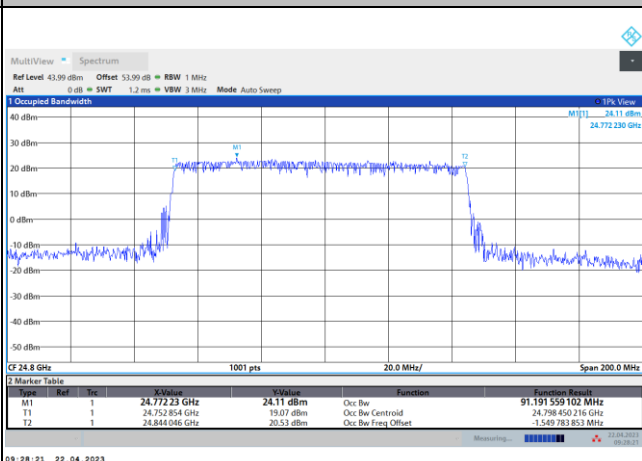
DFT-s-OFDM Module A

NR Band n258b

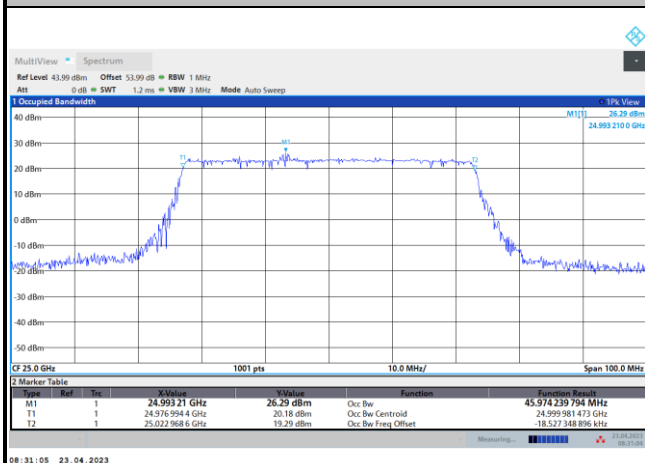
Lowest Channel / 50MHz / 64QAM



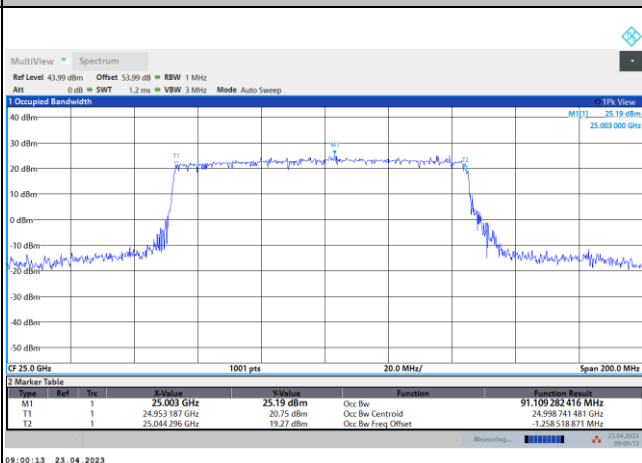
Lowest Channel / 100MHz / QPSK



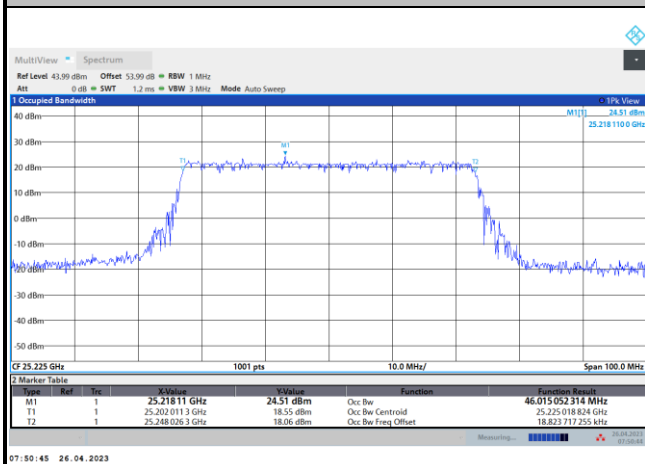
Middle Channel / 50MHz / 64QAM



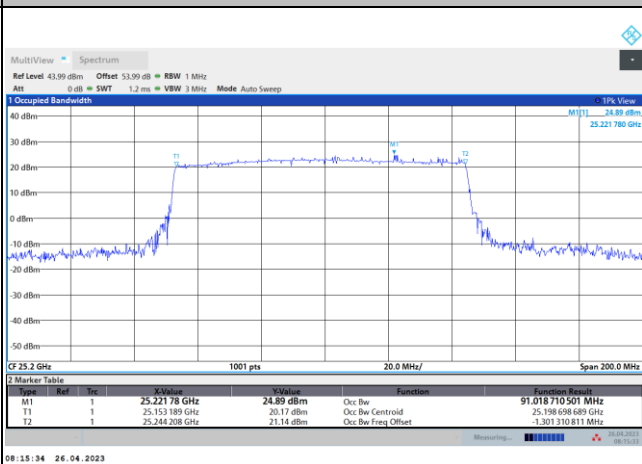
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

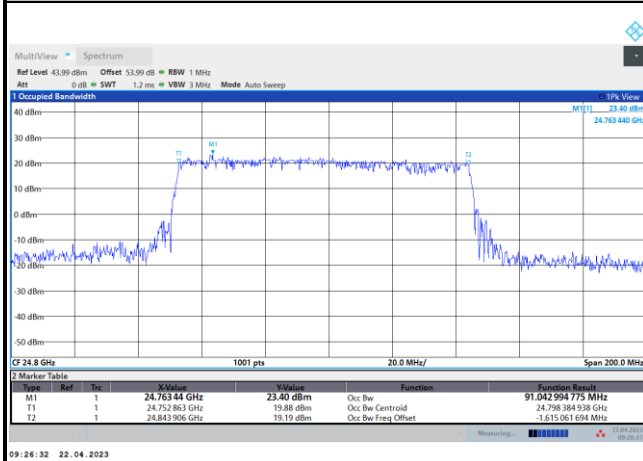




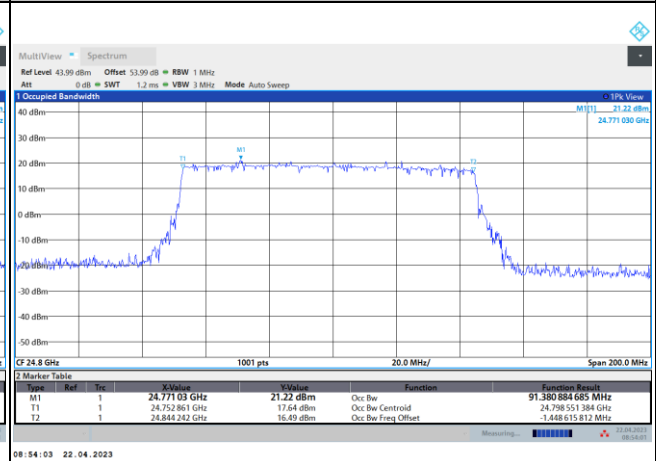
DFT-s-OFDM Module A

NR Band n258b

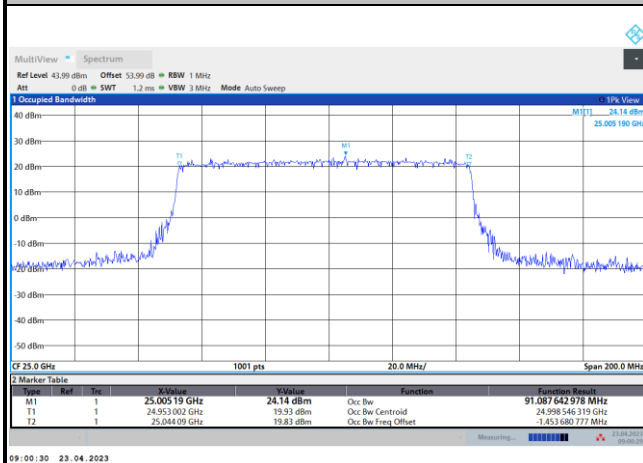
Lowest Channel / 100MHz / 16QAM



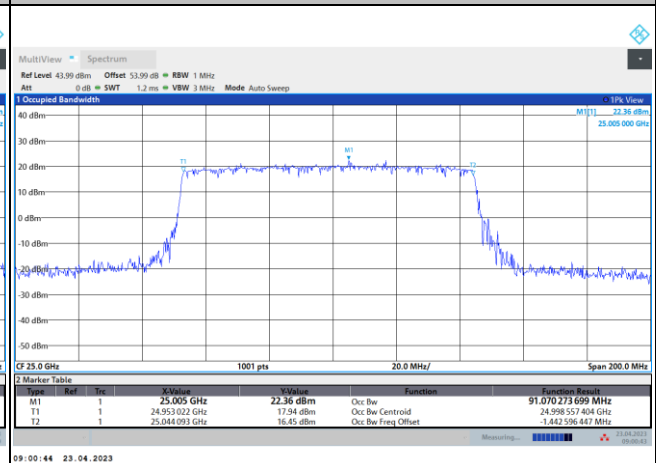
Lowest Channel / 100MHz / 64QAM



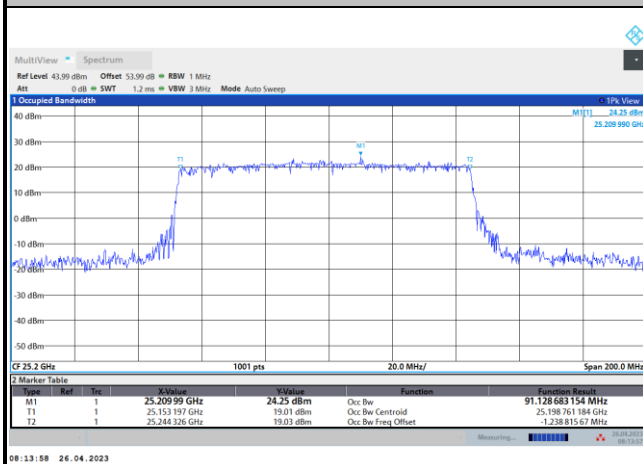
Middle Channel / 100MHz / 16QAM



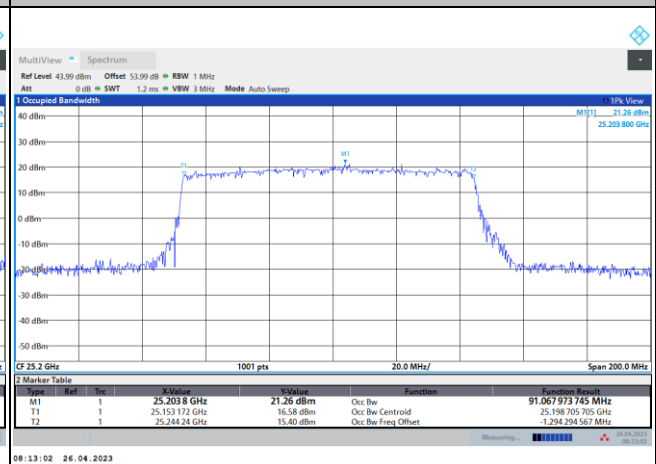
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

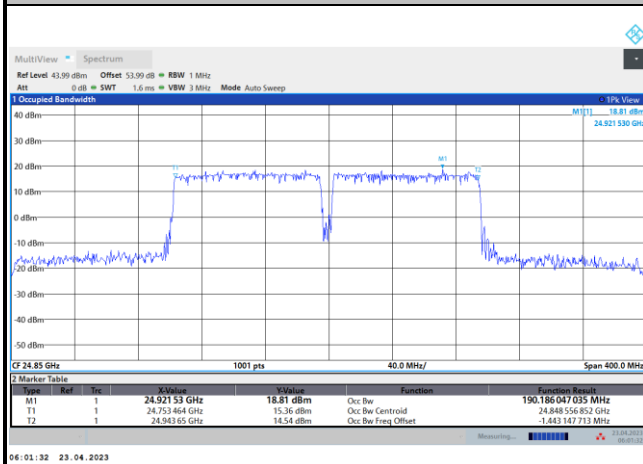




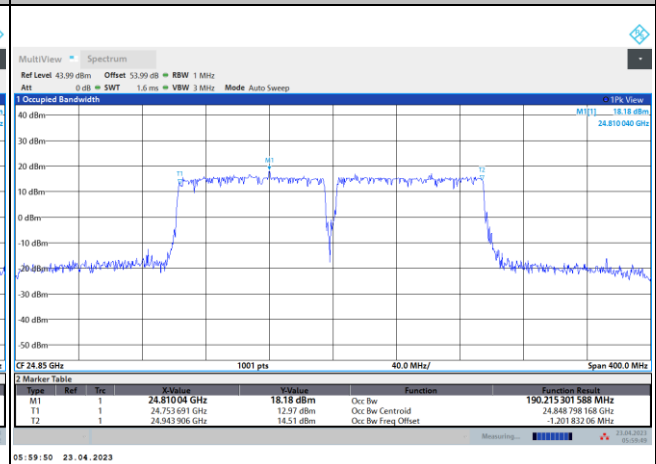
DFT-s-OFDM Module A

NR Band n258b

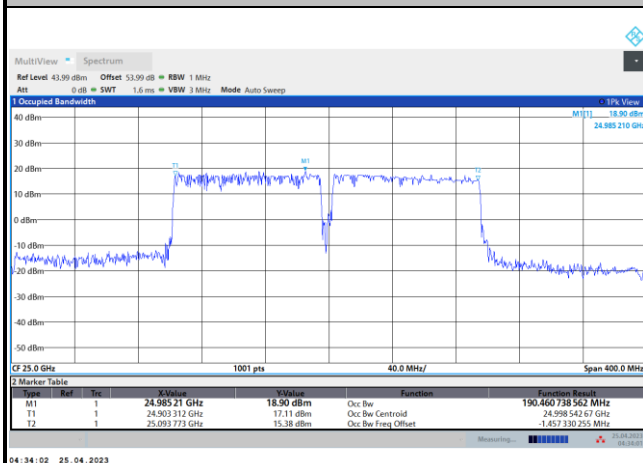
Lowest Channel / 200MHz / QPSK



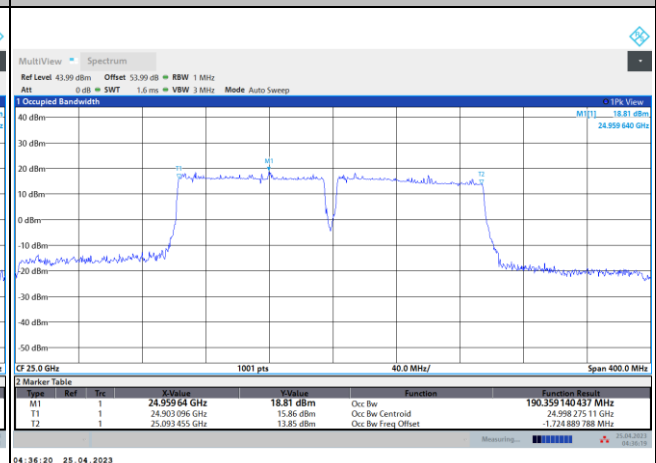
Lowest Channel / 200MHz / 16QAM



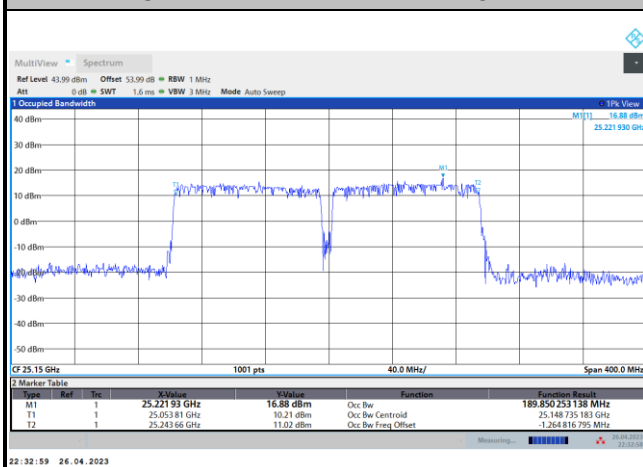
Middle Channel / 200MHz / QPSK



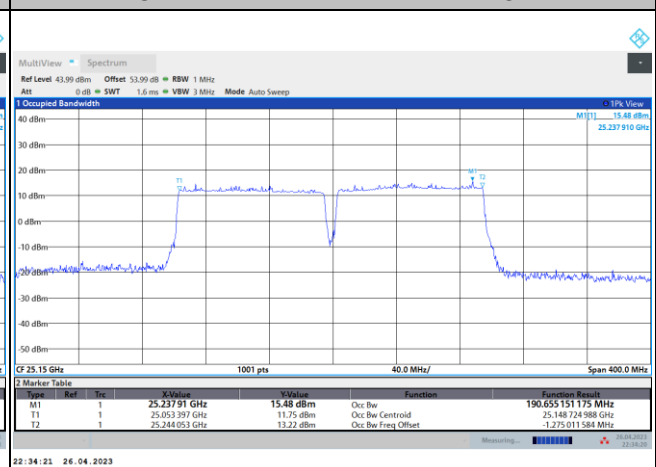
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

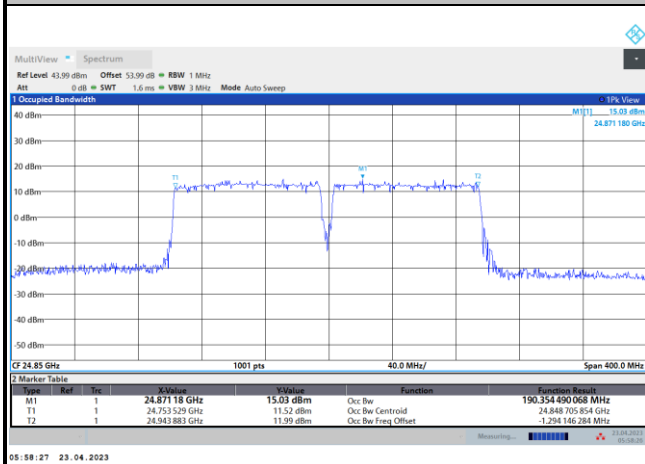




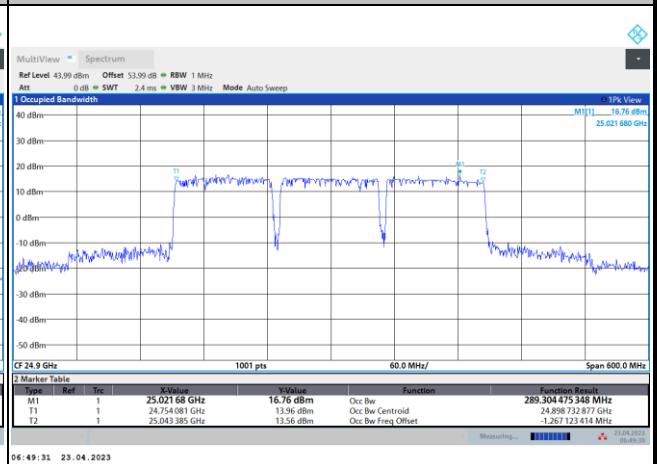
DFT-s-OFDM Module A

NR Band n258b

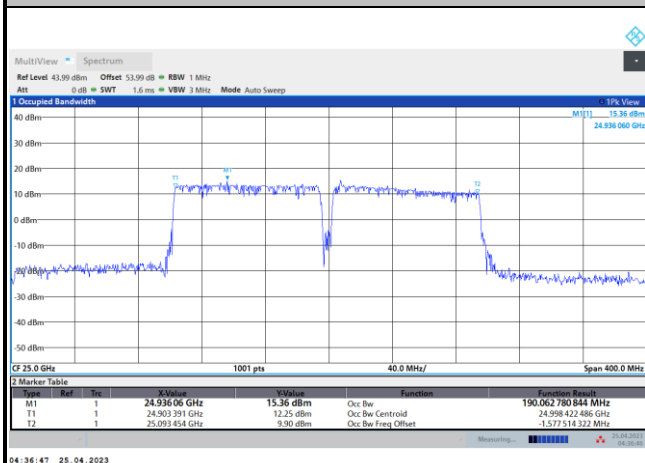
Lowest Channel / 200MHz / 64QAM



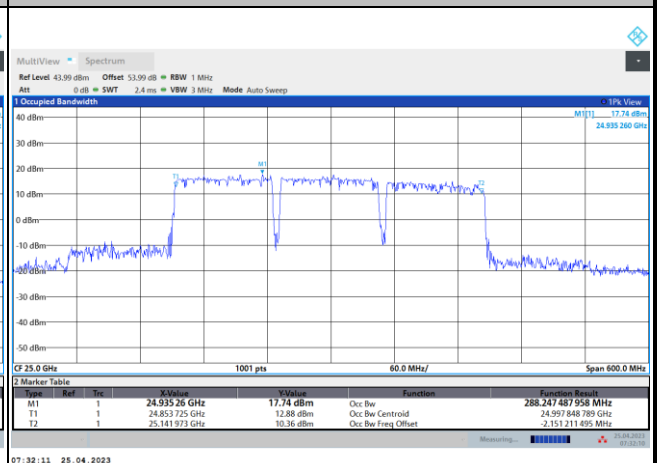
Lowest Channel / 300MHz / QPSK



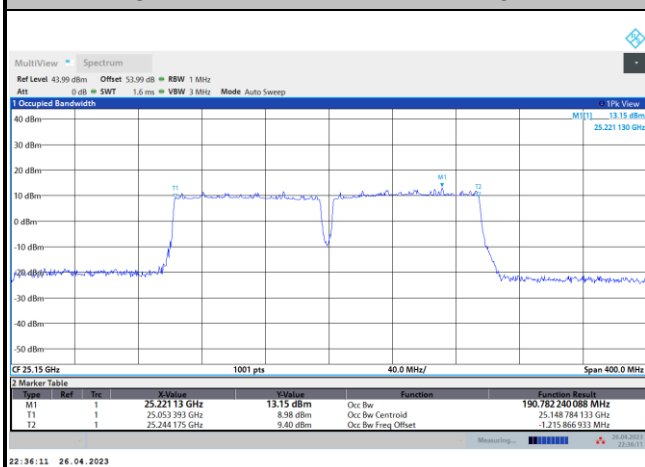
Middle Channel / 200MHz / 64QAM



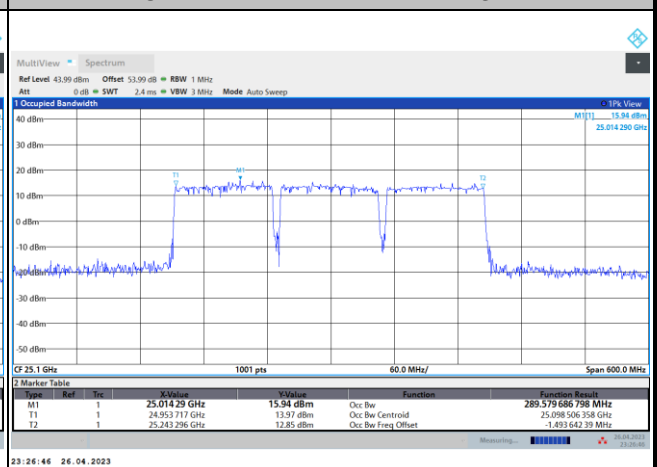
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

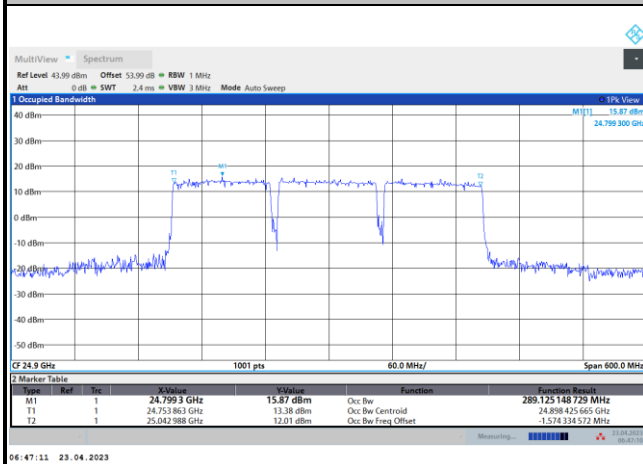




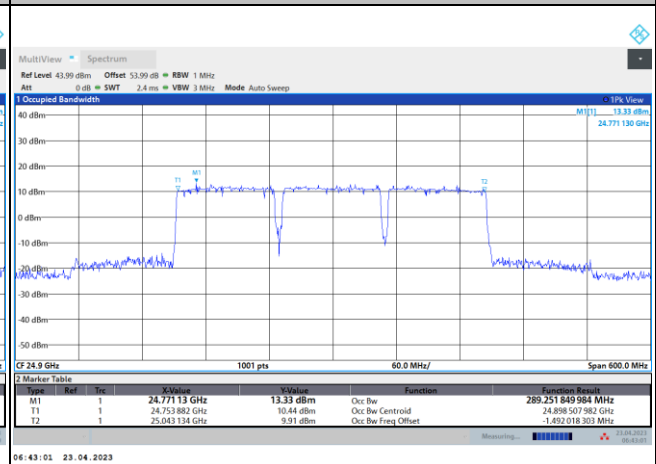
DFT-s-OFDM Module A

NR Band n258b

Lowest Channel / 300MHz / 16QAM



Lowest Channel / 300MHz / 64QAM



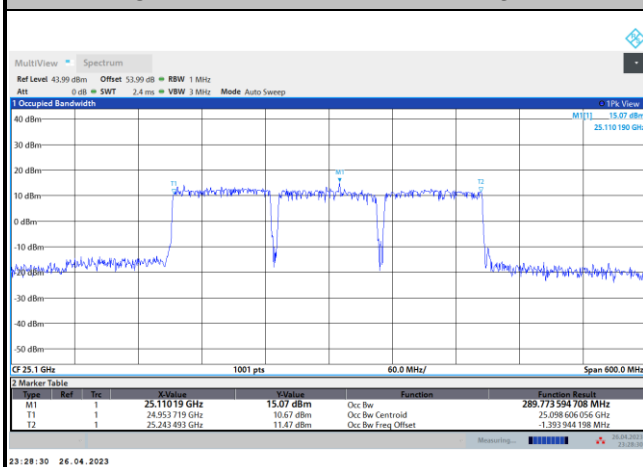
Middle Channel / 300MHz / 16QAM



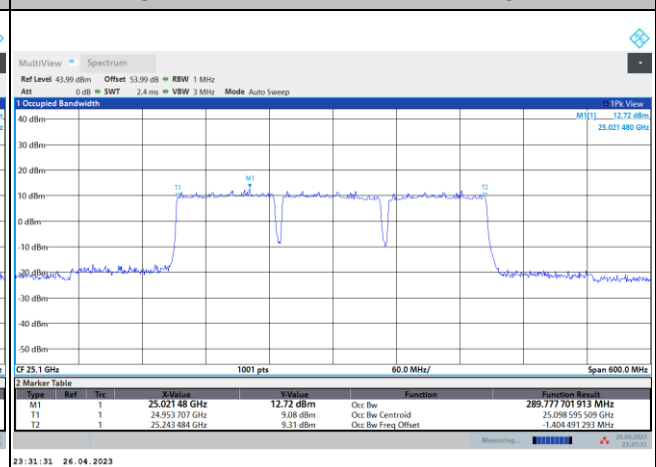
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM

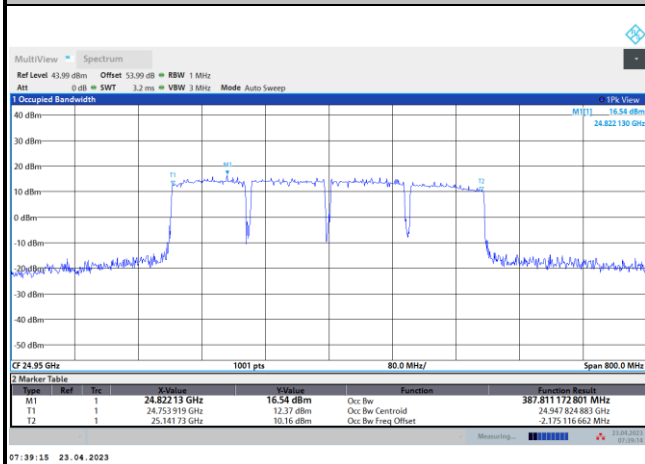




DFT-s-OFDM Module A

NR Band n258b

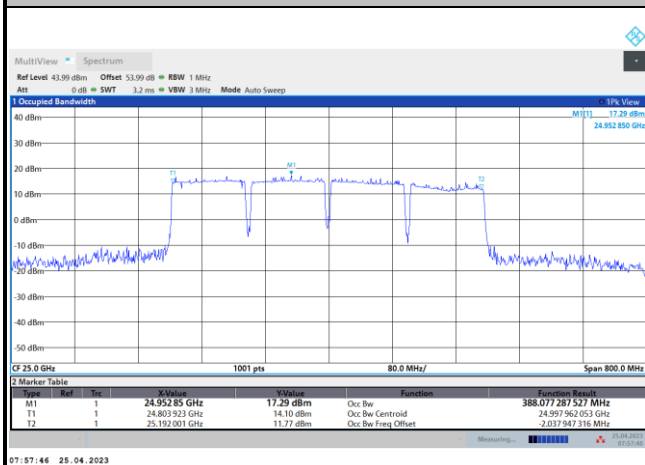
Lowest Channel / 400MHz / QPSK



Lowest Channel / 400MHz / 16QAM



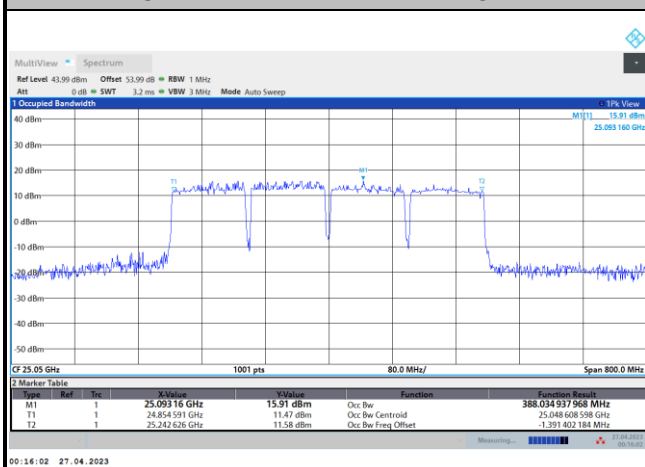
Middle Channel / 400MHz / QPSK



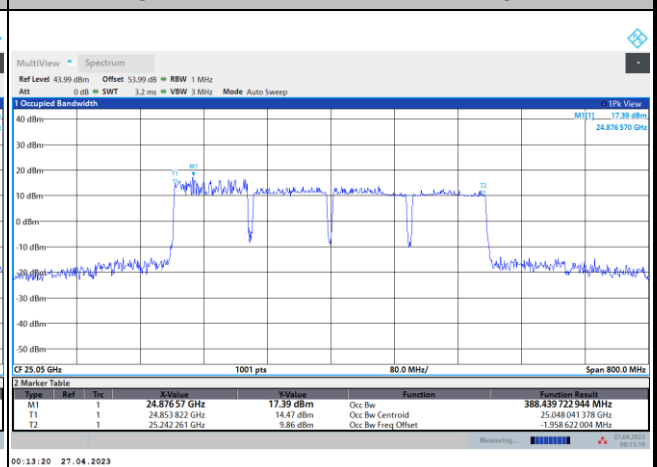
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM

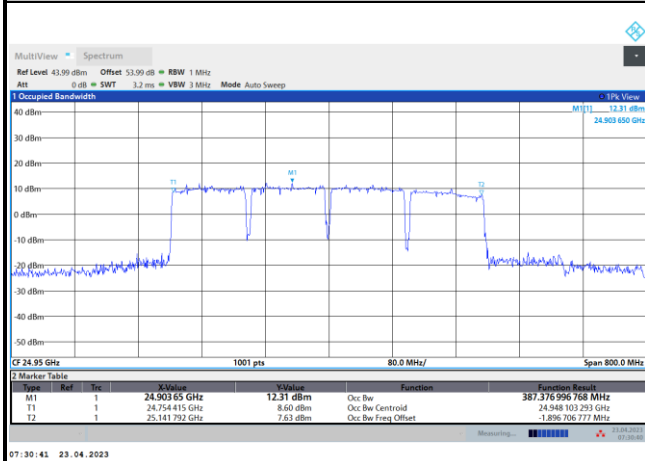




DFT-s-OFDM Module A

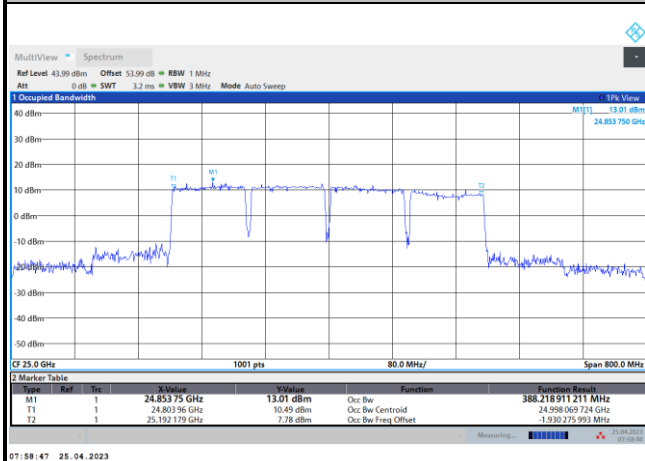
NR Band n258b

Lowest Channel / 400MHz / 64QAM



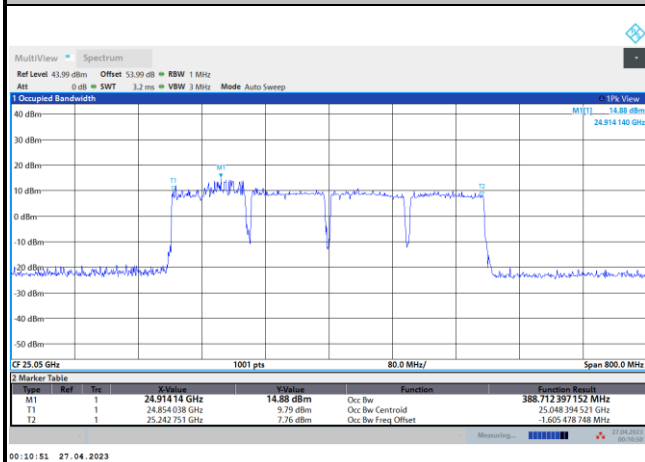
intentionally blank

Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



intentionally blank