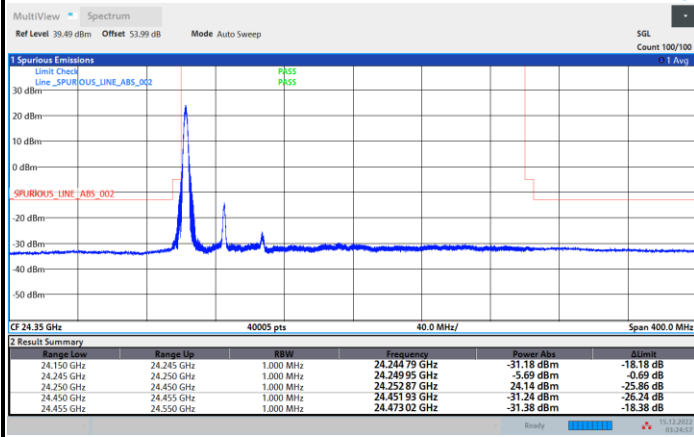




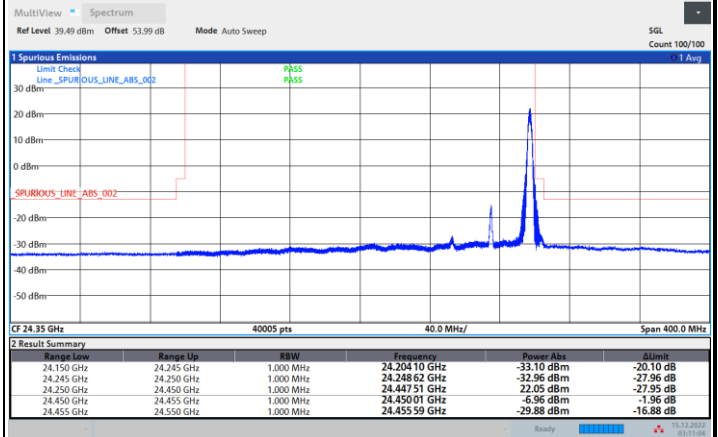
CP-OFDM Module B

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / 1 RB

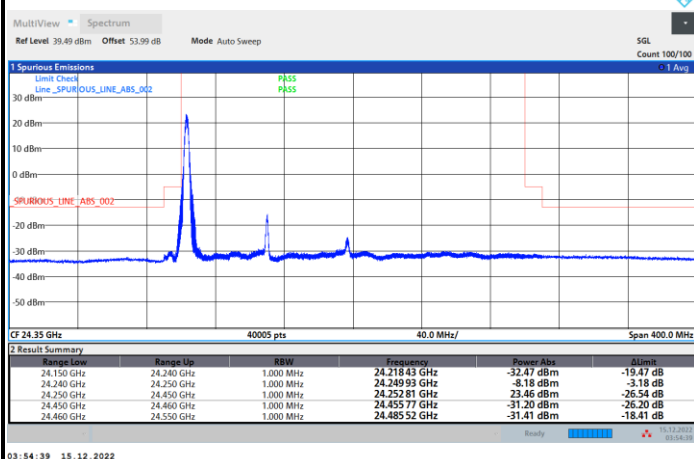


Highest Band Edge / 1 RB

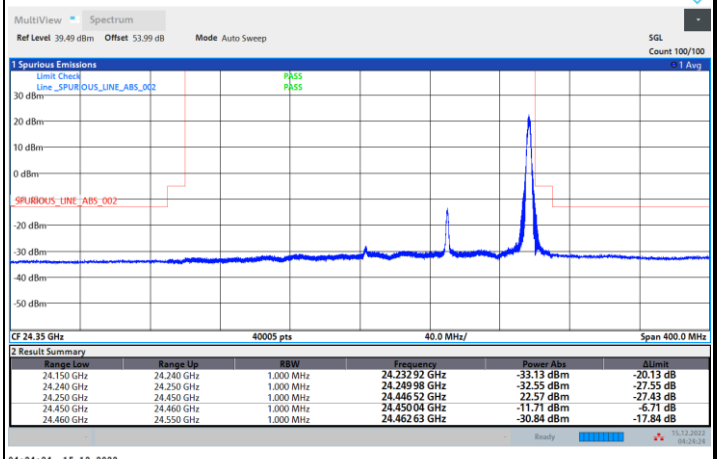


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

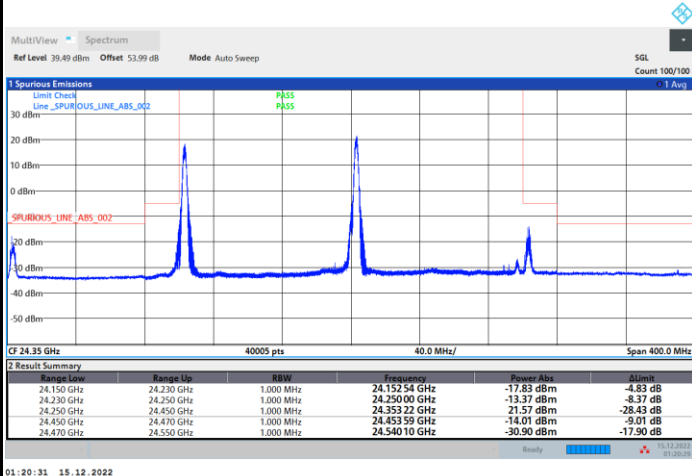




CP-OFDM Module B

NR Band n258A/ 200MHz / QPSK

Middle Band Edge / 1 RB



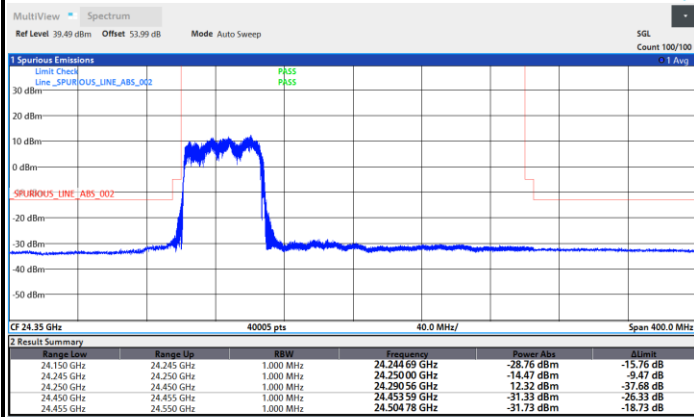
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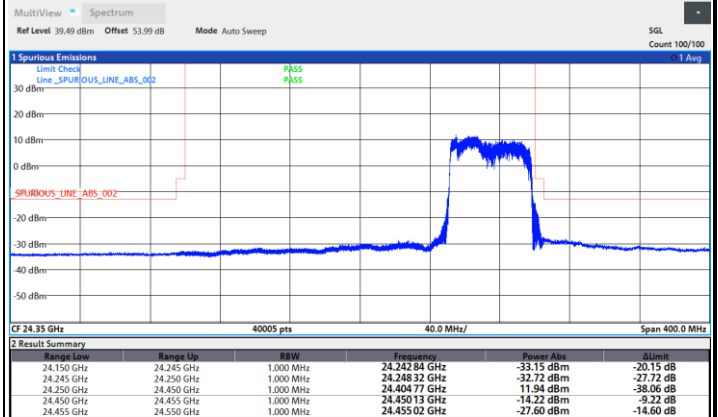
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / Full RB

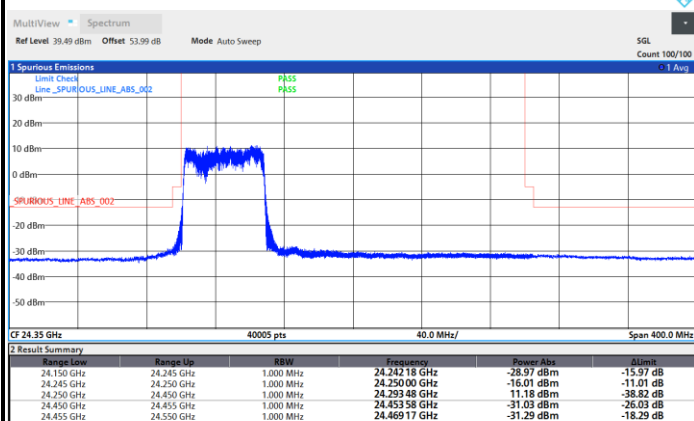


Highest Band Edge / Full RB

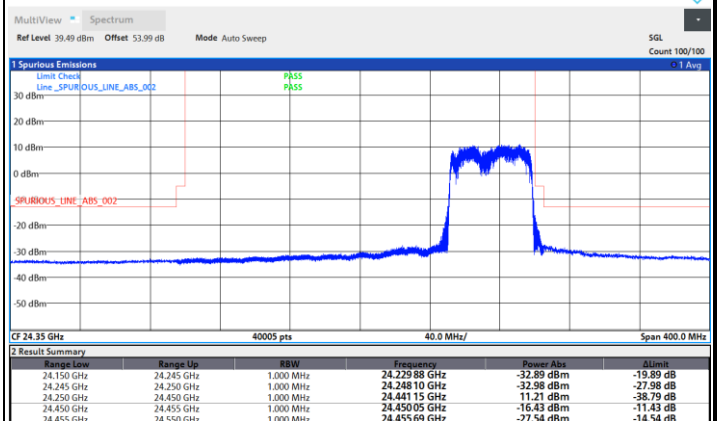


NR Band n258A/ 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

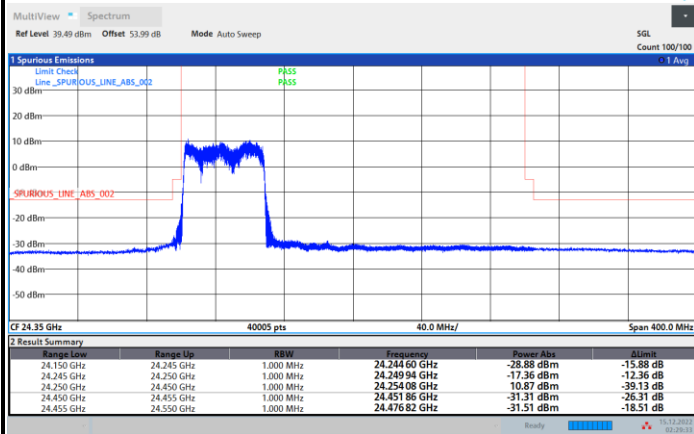




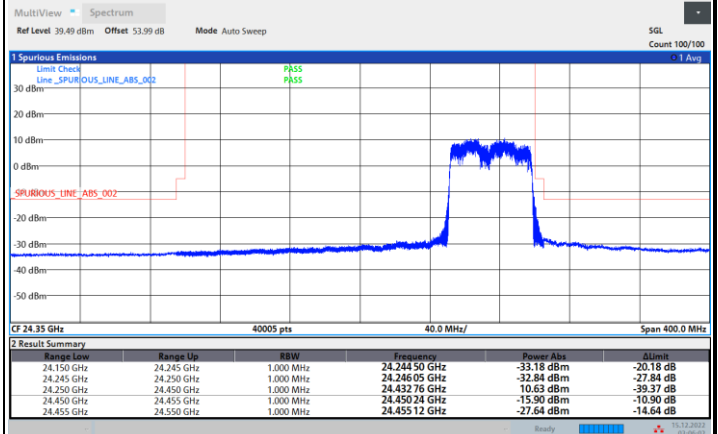
DFT-s-OFDM Module B

NR Band n258A/ 50MHz / 64QAM

Lowest Band Edge / Full RB

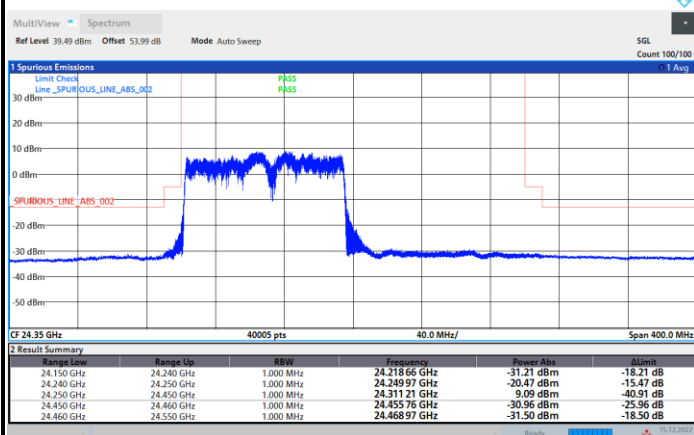


Highest Band Edge / Full RB

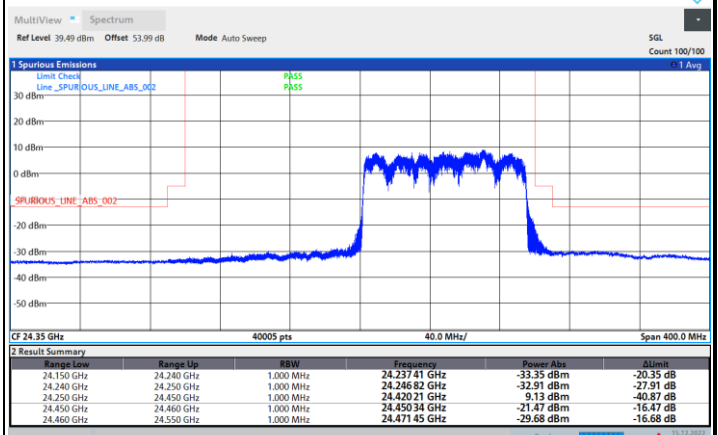


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

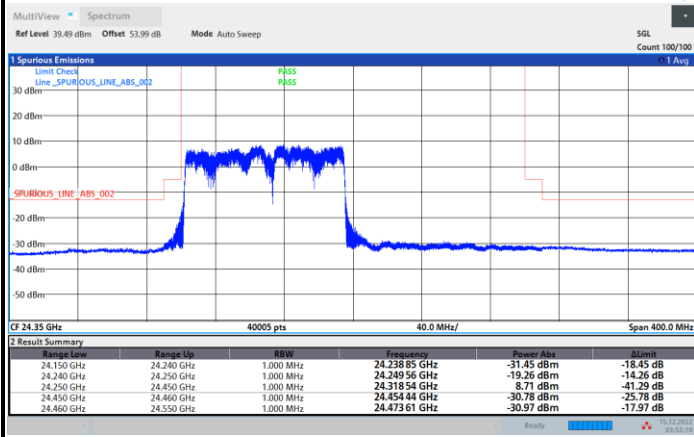




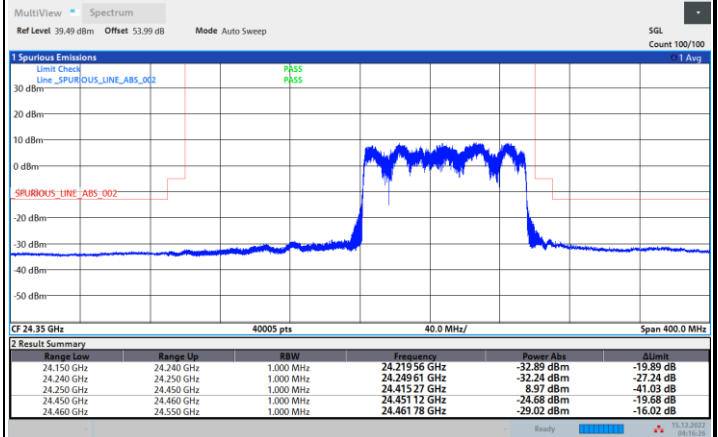
DFT-s-OFDM Module B

NR Band n258A/ 100MHz / 16QAM

Lowest Band Edge / Full RB

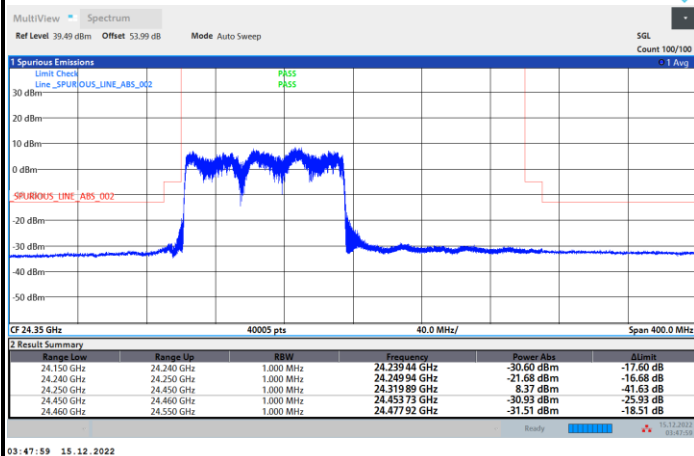


Highest Band Edge / Full RB

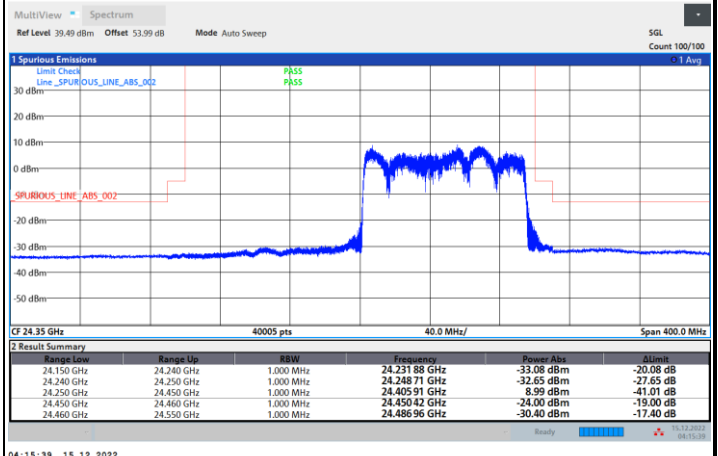


NR Band n258A/ 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

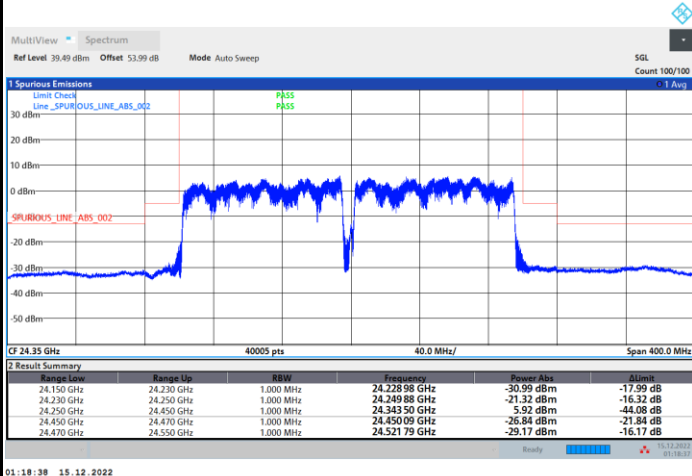




DFT-s-OFDM Module B

NR Band n258A/ 200MHz / QPSK

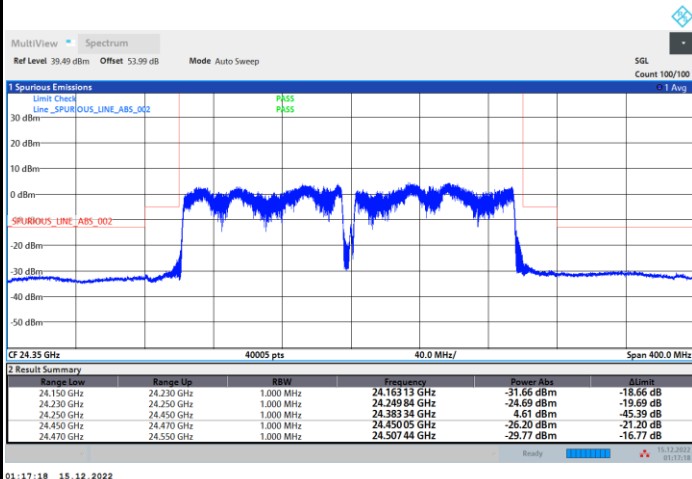
Middle Band Edge / Full RB



intentionally blank

NR Band n258A/ 200MHz / 16QAM

Middle Band Edge / Full RB



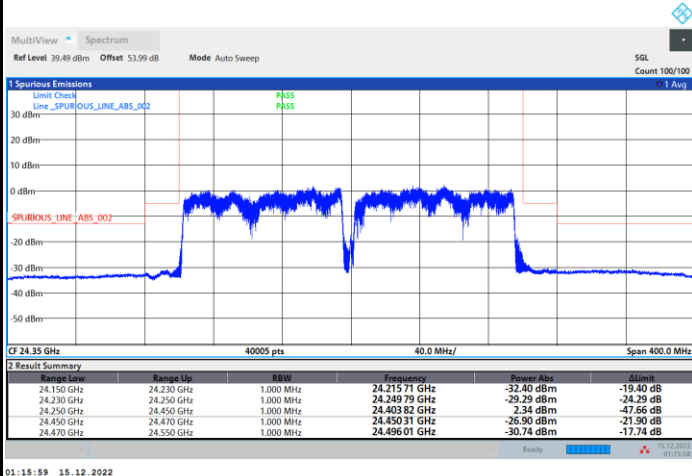
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DFT-s-OFDM Module B

NR Band n258A/ 200MHz / 64QAM

Middle Band Edge / Full RB



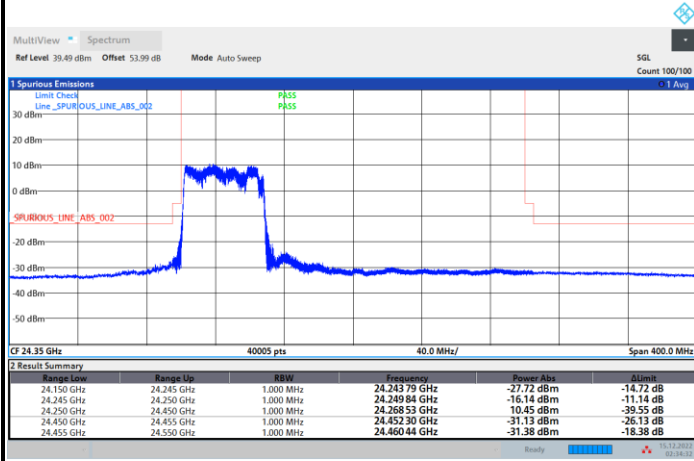
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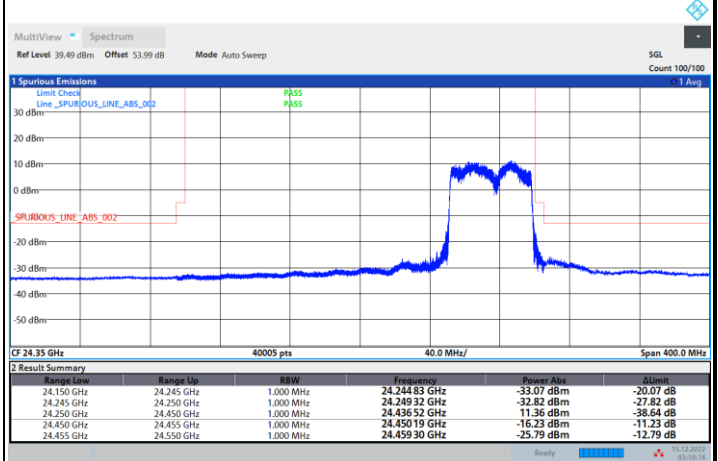
CP-OFDM Module B

NR Band n258A/ 50MHz / QPSK

Lowest Band Edge / Full RB

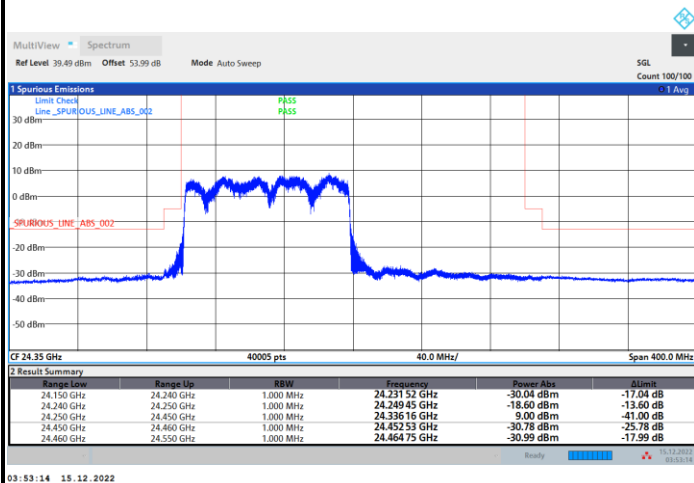


Highest Band Edge / Full RB

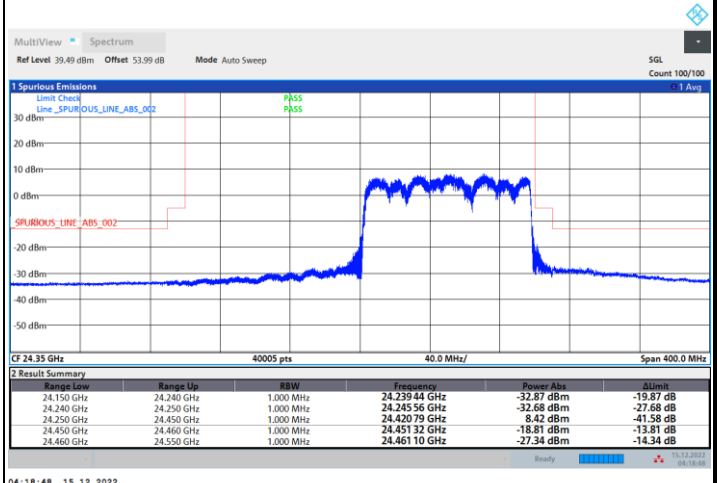


NR Band n258A/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

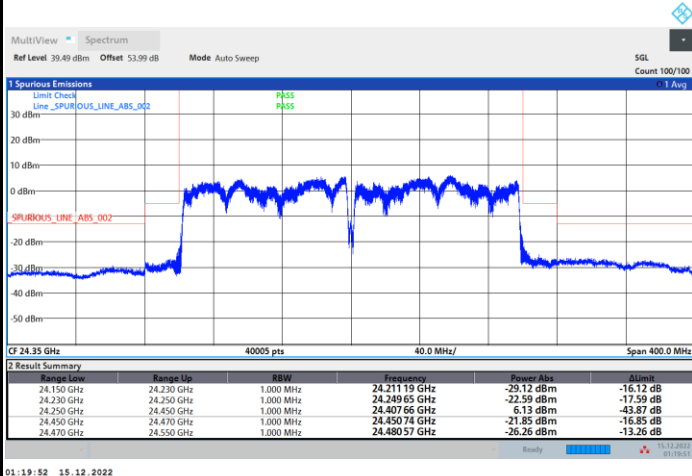




CP-OFDM Module B

NR Band n258A/ 200MHz / QPSK

Middle Band Edge / Full RB



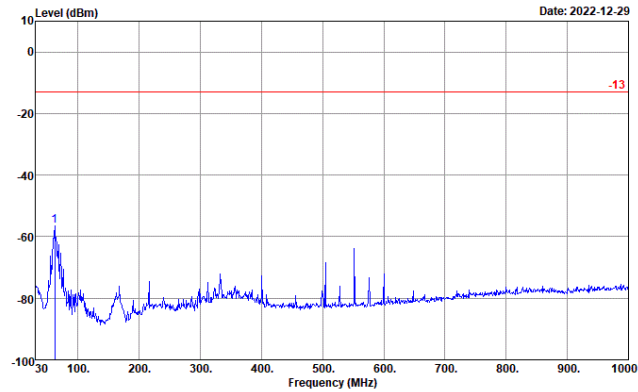
intentionally blank



Spurious Emission

NR Band n258A (30MHz-1GHz)

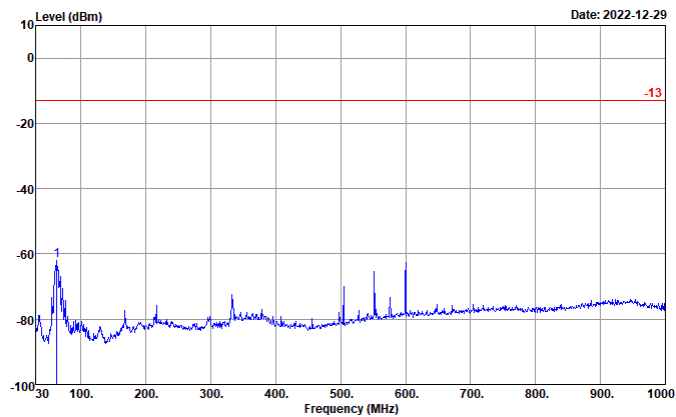
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 262403-03
 : n258a MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	62.01	-56.61	-43.61	-13.00	-51.60

Vertical



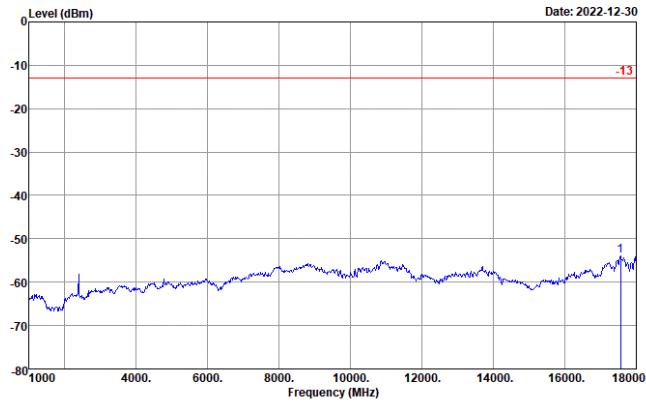
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 262403-03
 : n258a MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	62.98	-62.01	-49.01	-13.00	-53.33



NR Band n258A (1GHz-18GHz)

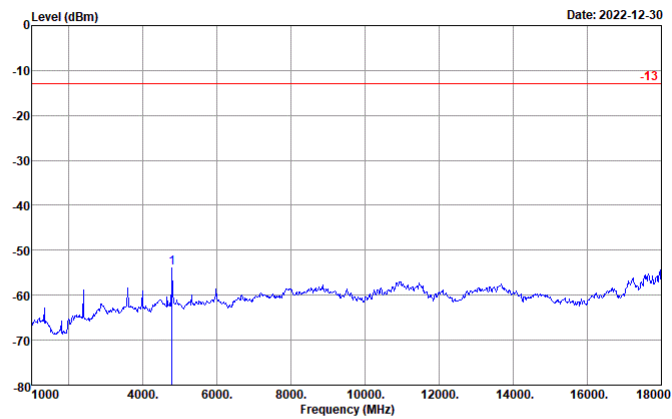
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 262403-03
 : n258a MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	17558.00	-53.99	-40.99	-13.00	-68.07

Vertical



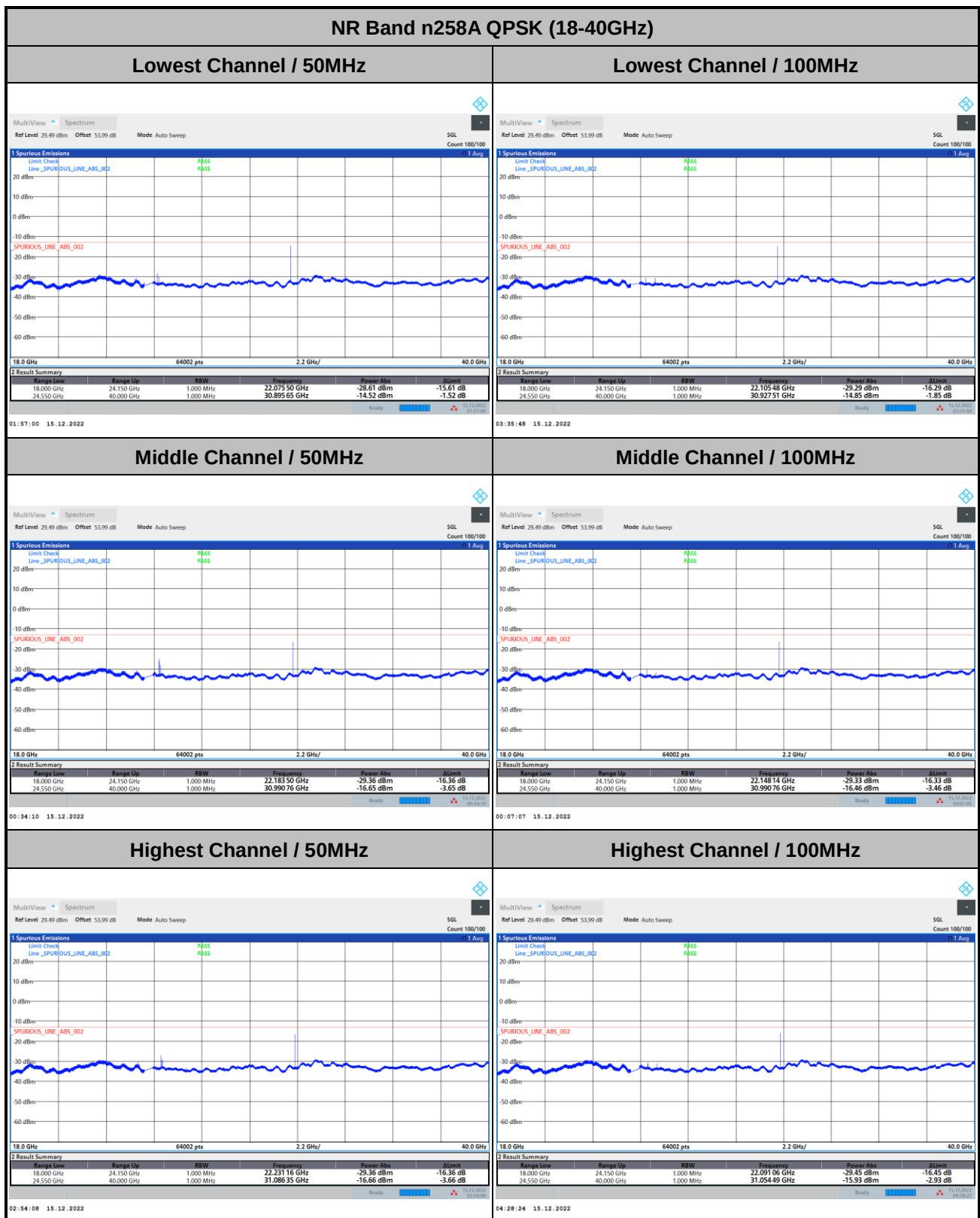
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 262403-03
 : n258a MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	4791.00	-53.88	-40.88	-13.00	-46.64



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

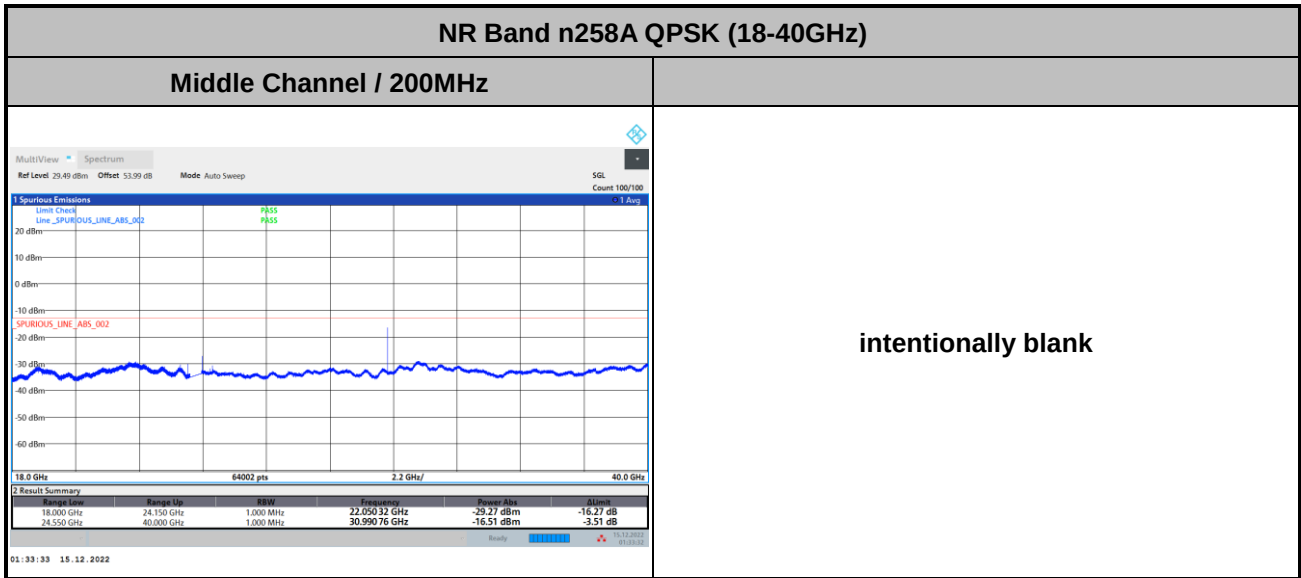
DFT-s-OFDM Module B



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



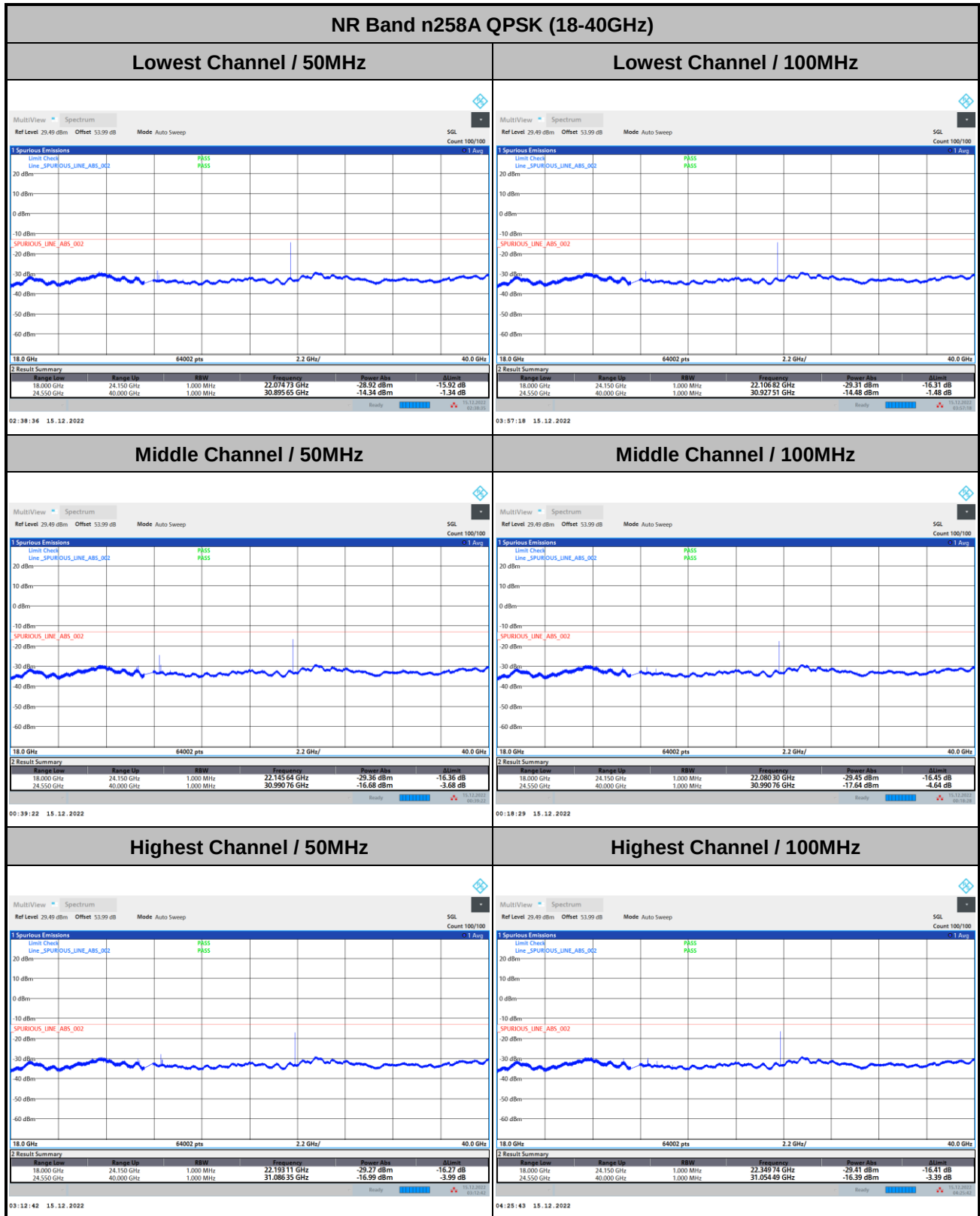
DFT-s-OFDM Module B



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



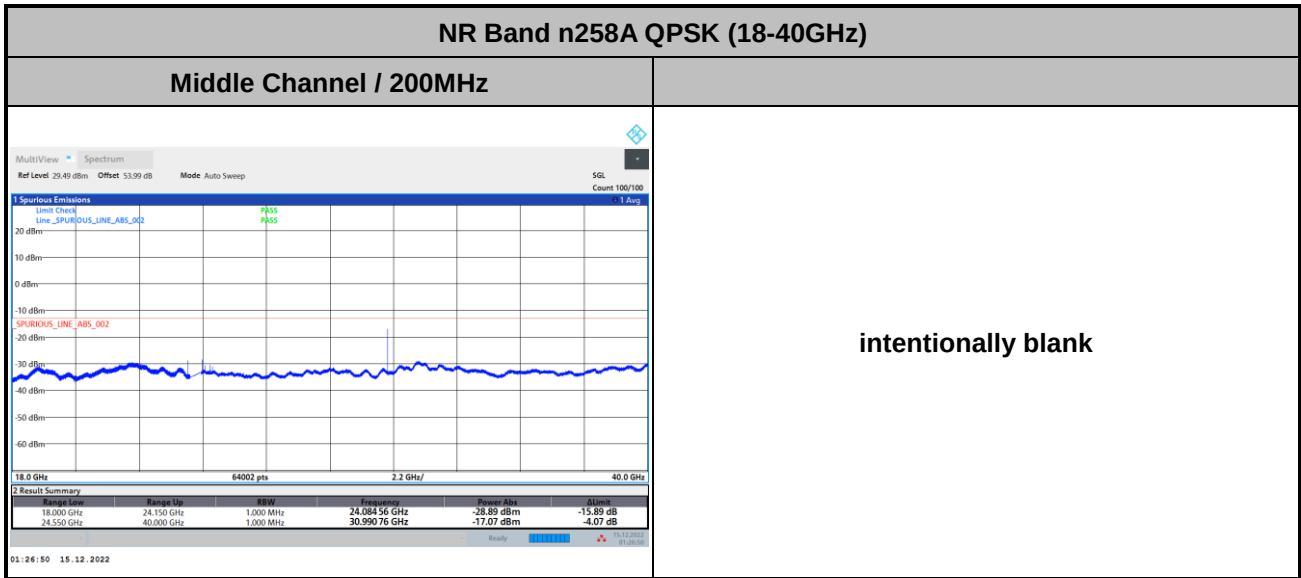
CP-OFDM Module B



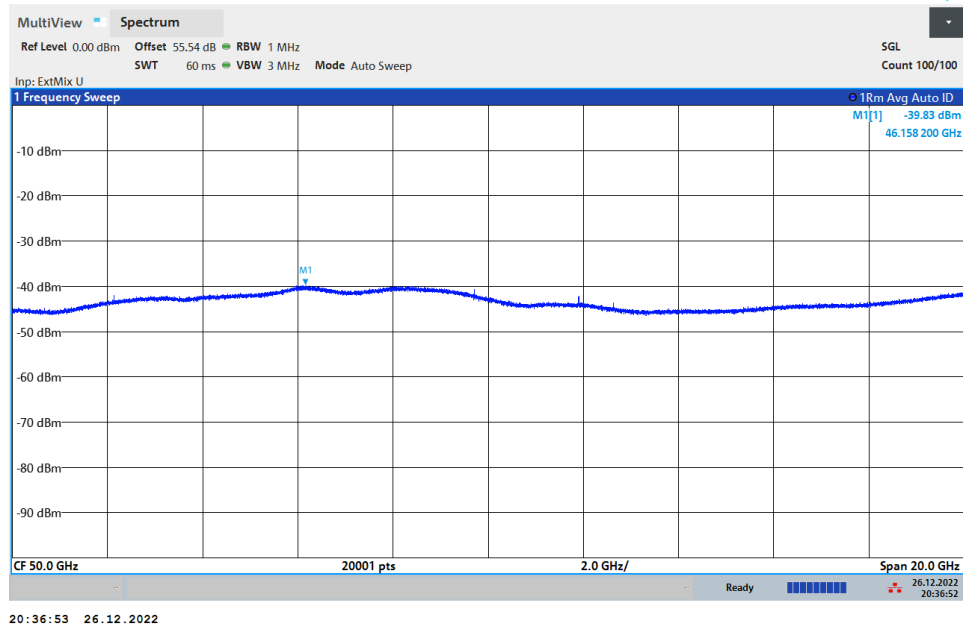
Remark: In band and out of band frequencies are omitted.



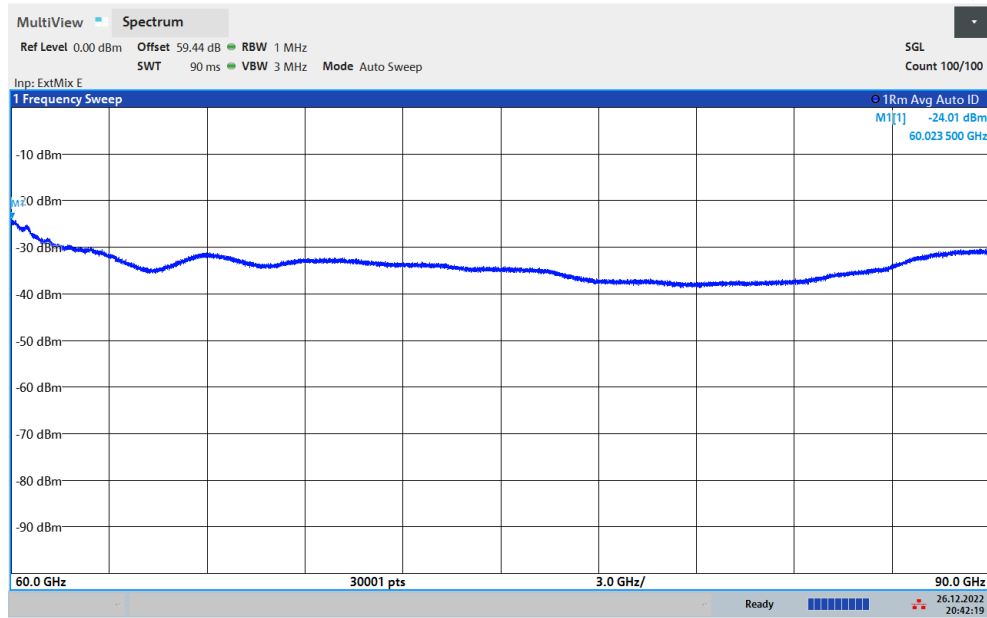
CP-OFDM Module B



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

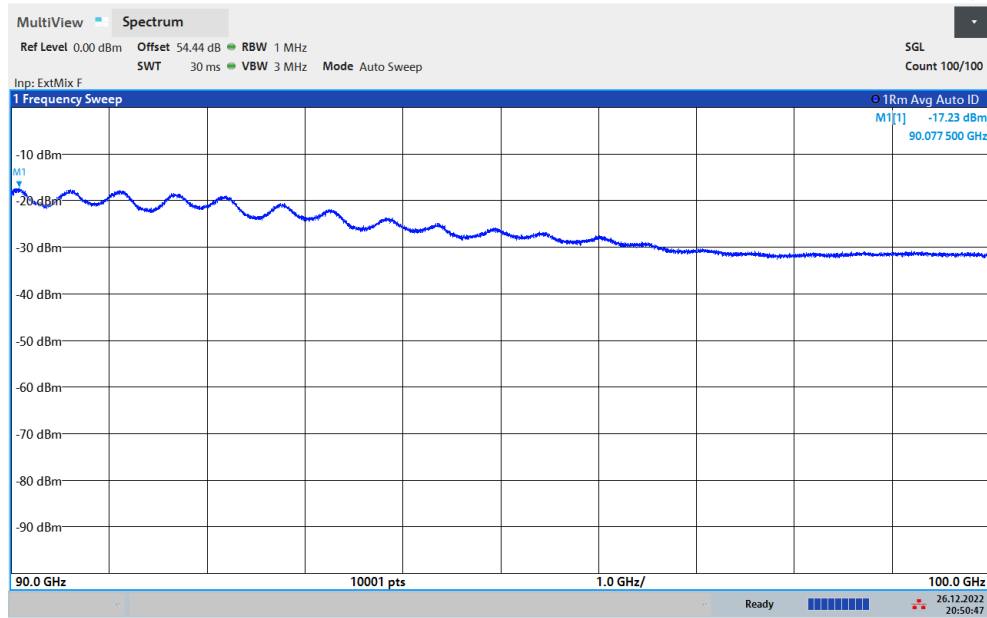
NR Band n258A
(40GHz-60GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 43 + 0.43 + 107 + 20\log(1) - 104.8 + 9.91 = 55.54(\text{dB}) \end{aligned}$$

NR Band n258A
(60GHz-90GHz)


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

$$= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 + 9.91 = 59.44 \text{ (dB)}$$

NR Band n258A
(90GHz-100GHz)


20:50:47 26.12.2022

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 47.92 + 0.43 + 107 + 20\log(0.5) - 104.8 + 9.91 = 54.44 \text{ (dB)} \end{aligned}$$

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	24.34998831	11.690	0.419	Pass
40	Normal Voltage	24.34998731	12.690	0.454	
30	Normal Voltage	24.3499962	3.800	0.136	
20(Ref.)	Normal Voltage	24.35	0.000	0.000	
10	Normal Voltage	24.3500984	-98.400	3.524	
0	Normal Voltage	24.35011988	-119.880	4.293	
-10	Normal Voltage	24.35017932	-179.320	6.421	
-20	Normal Voltage	24.35017183	-171.830	6.153	
-30	Normal Voltage	24.35016843	-168.430	6.032	
20	Maximum Voltage	24.35001289	-12.890	0.462	
20	Normal Voltage	24.35001429	-14.290	0.512	
20	Battery End Point	24.35001189	-11.890	0.426	

Note:

1. Normal Voltage =3.88 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	46.17	46.04	45.95	91.22	91.27	91.65	190.48	190.86	190.81
Middle CH	46.01	45.87	45.88	91.52	91.23	91.29	190.15	190.23	190.33
Highest CH	45.93	45.90	46.10	91.40	91.18	91.35	190.71	190.81	190.70

Mode	DFT-s-OFDM Module A NR Band n258b : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	289.96	289.64	289.70	388.51	388.69	388.32
Middle CH	289.96	288.97	289.08	387.98	388.69	388.01
Highest CH	288.94	289.52	289.56	388.95	388.49	388.71

Mode	CP-OFDM Module A NR Band n258b : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	45.98	94.51	194.02
Middle CH	46.01	94.18	193.07
Highest CH	45.87	94.06	193.96

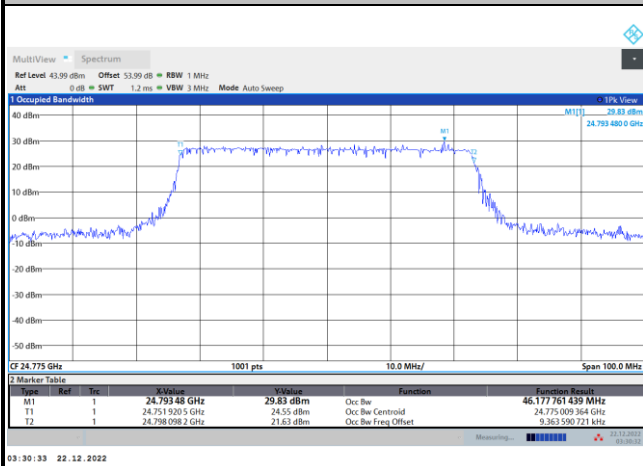
Mode	CP-OFDM Module A NR Band n258b : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	292.70	393.02
Middle CH	292.66	393.82
Highest CH	293.57	393.04



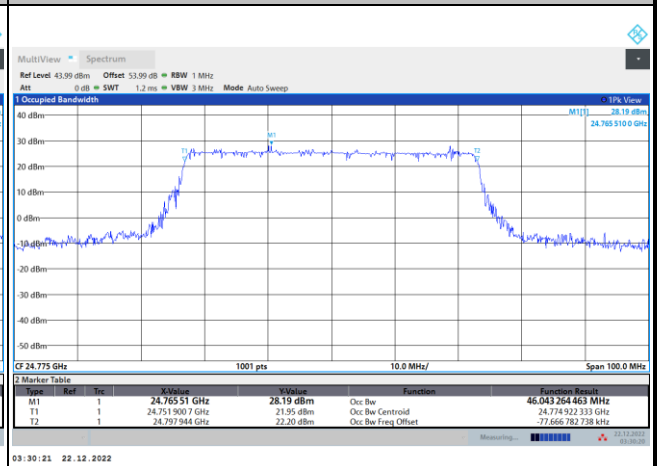
DFT-s-OFDM Module A

NR Band n258b

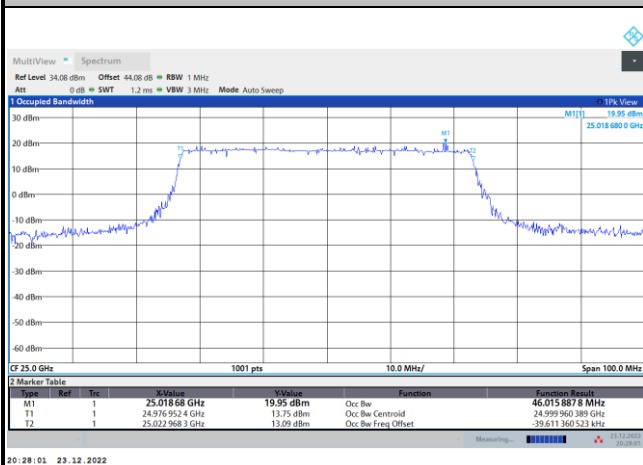
Lowest Channel / 50MHz / QPSK



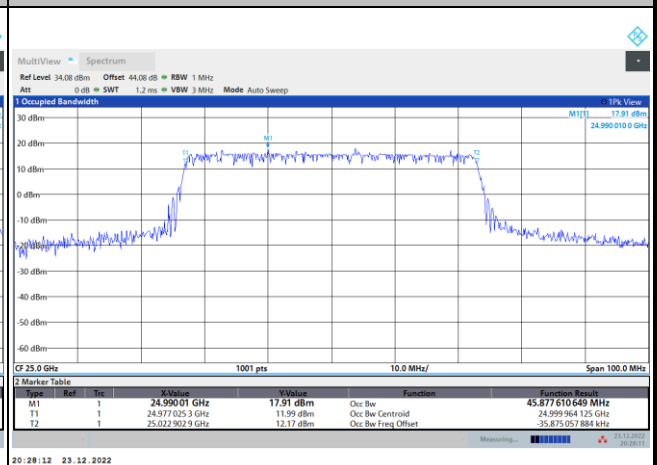
Lowest Channel / 50MHz / 16QAM



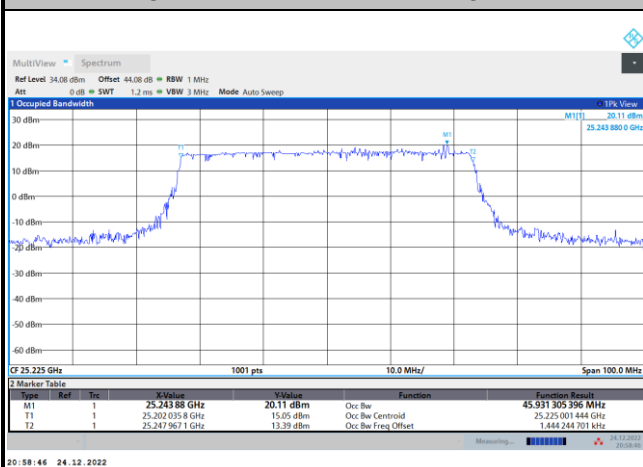
Middle Channel / 50MHz / QPSK



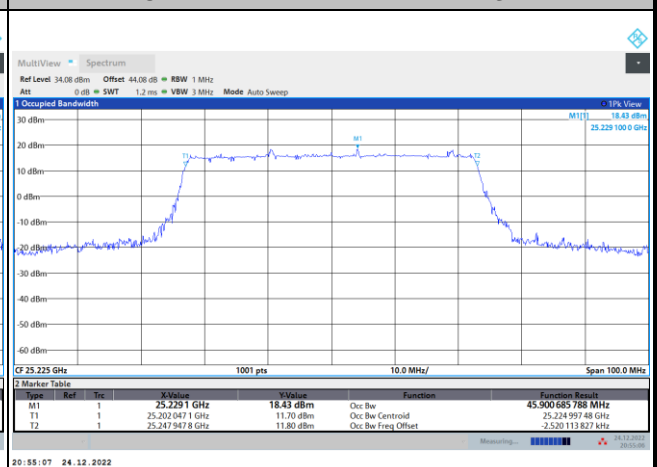
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

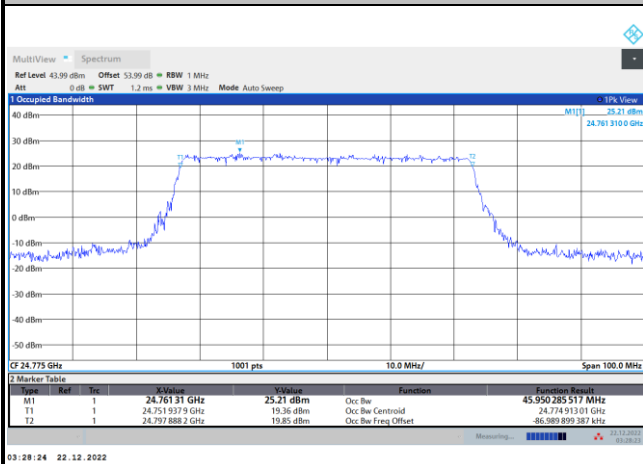




DFT-s-OFDM Module A

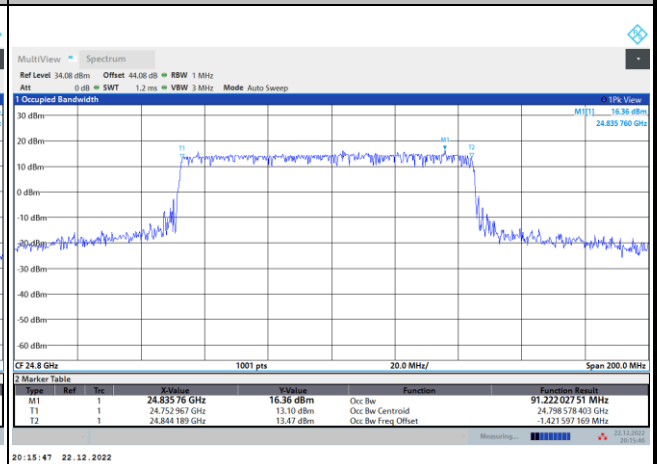
NR Band n258b

Lowest Channel / 50MHz / 64QAM



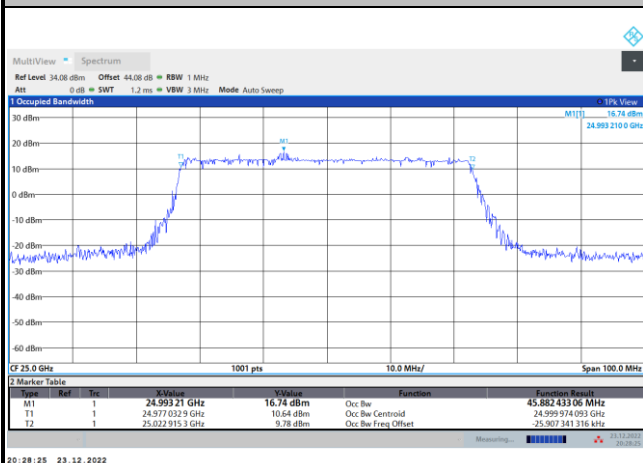
03:28:24 22.12.2022

Lowest Channel / 100MHz / QPSK



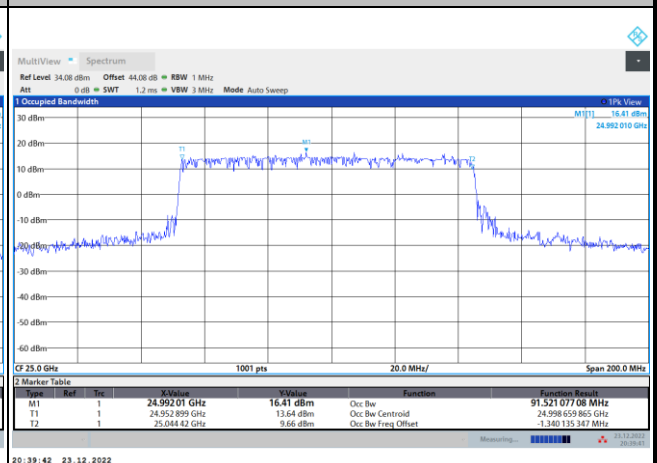
20:15:47 22.12.2022

Middle Channel / 50MHz / 64QAM



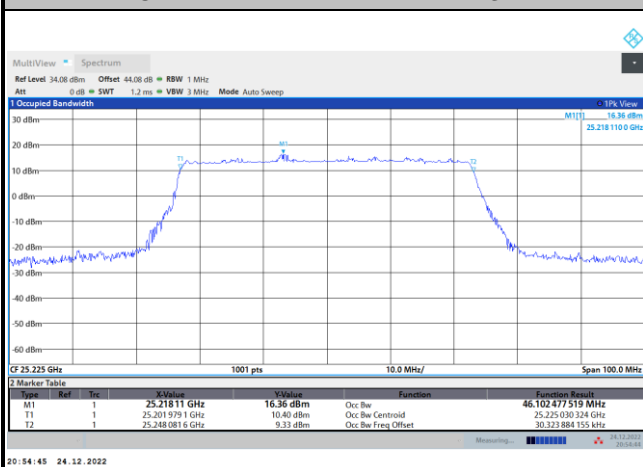
20:28:25 23.12.2022

Middle Channel / 100MHz / QPSK



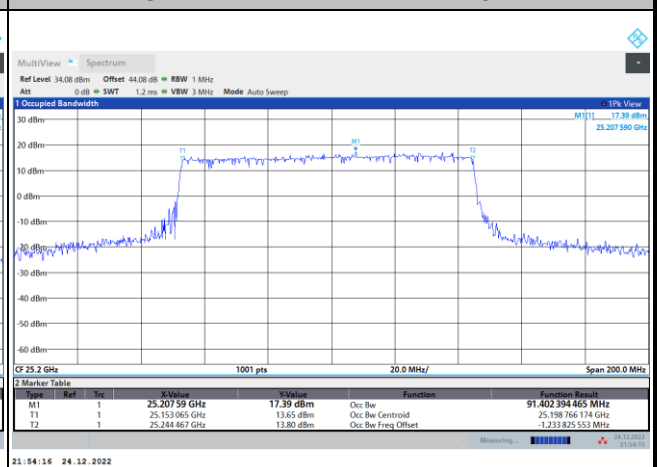
20:39:42 23.12.2022

Highest Channel / 50MHz / 64QAM



20:54:45 24.12.2022

Highest Channel / 100MHz / QPSK



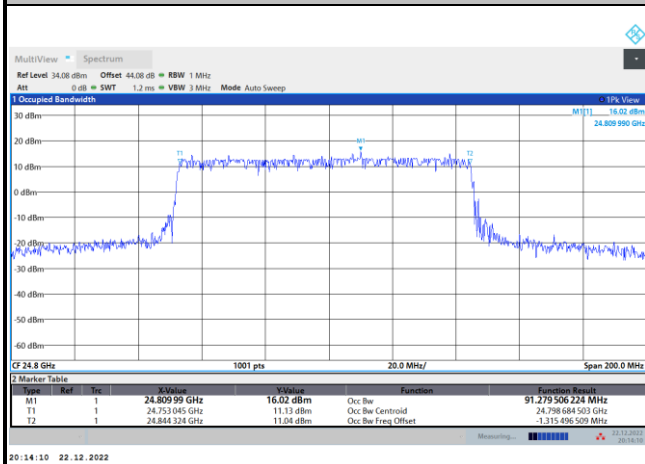
21:54:16 24.12.2022



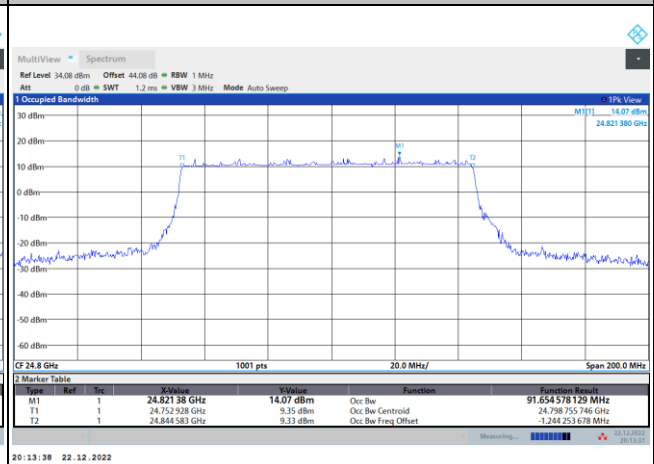
DFT-s-OFDM Module A

NR Band n258b

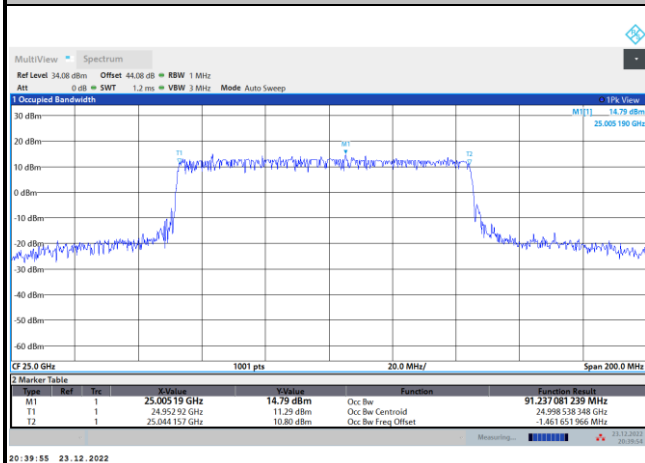
Lowest Channel / 100MHz / 16QAM



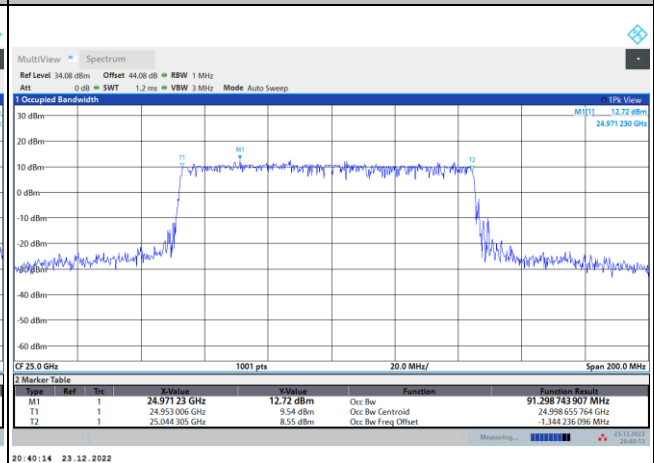
Lowest Channel / 100MHz / 64QAM



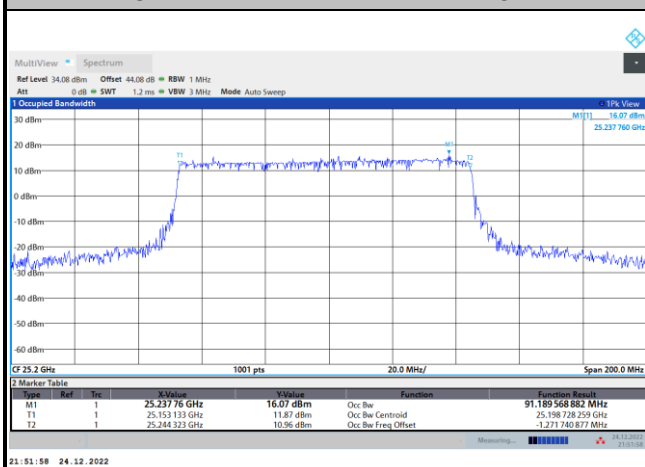
Middle Channel / 100MHz / 16QAM



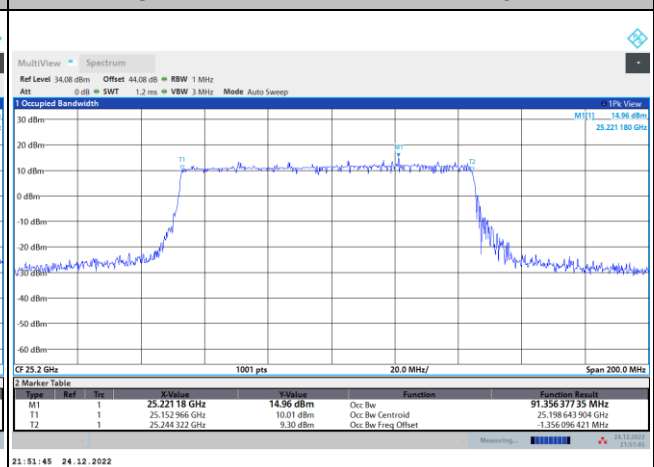
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

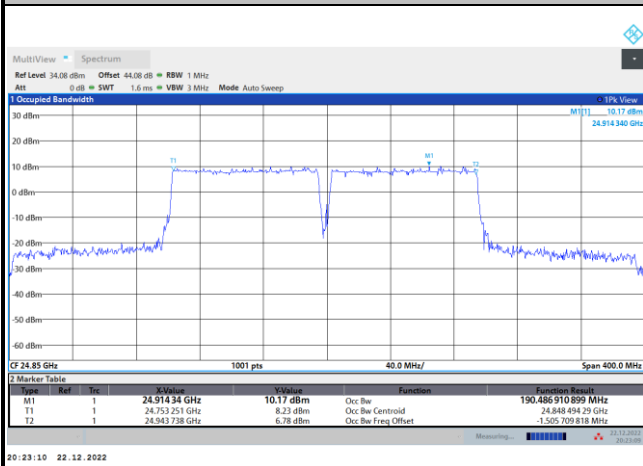




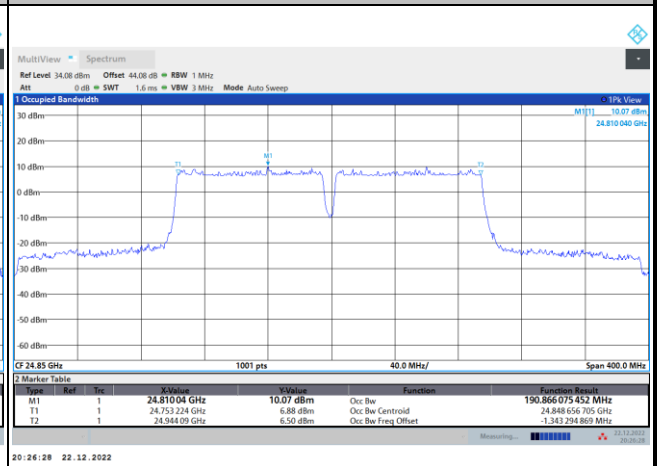
DFT-s-OFDM Module A

NR Band n258b

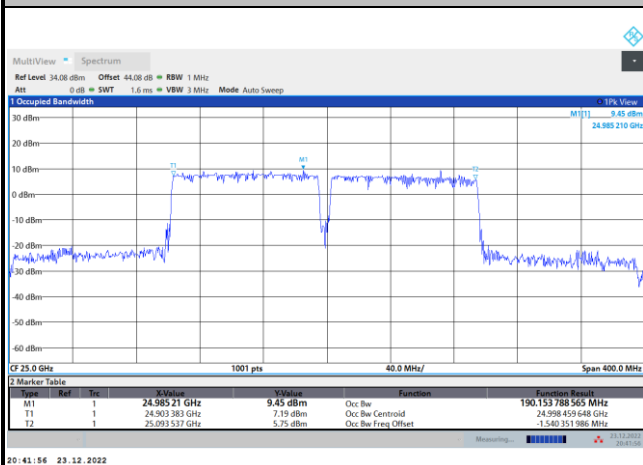
Lowest Channel / 200MHz / QPSK



Lowest Channel / 200MHz / 16QAM



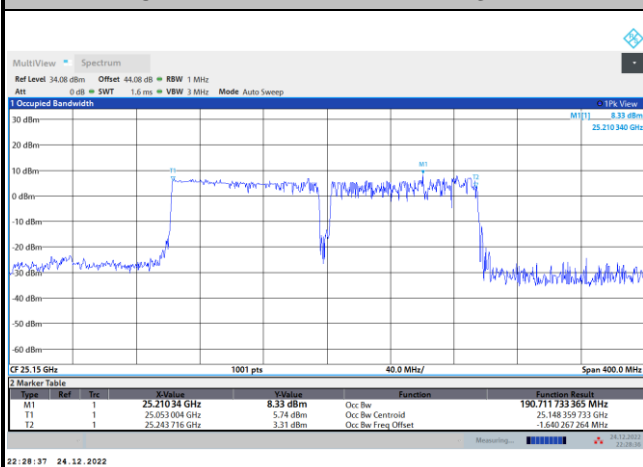
Middle Channel / 200MHz / QPSK



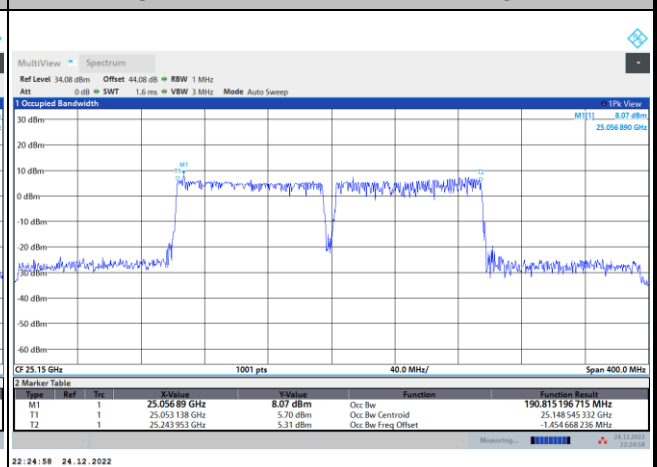
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

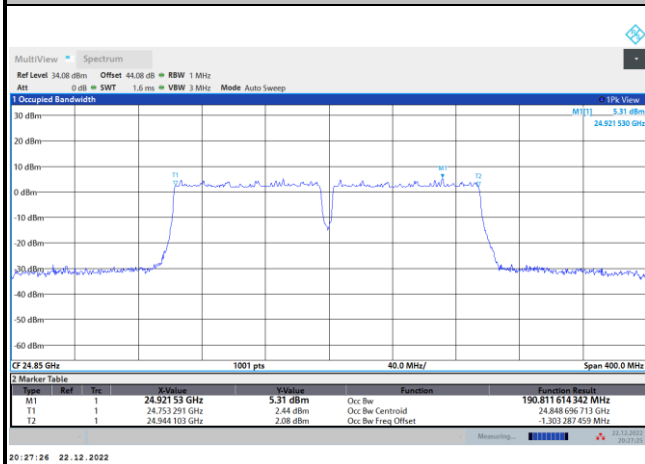




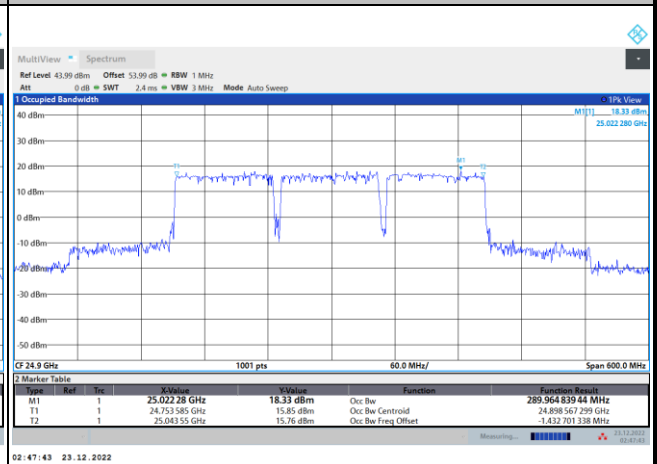
DFT-s-OFDM Module A

NR Band n258b

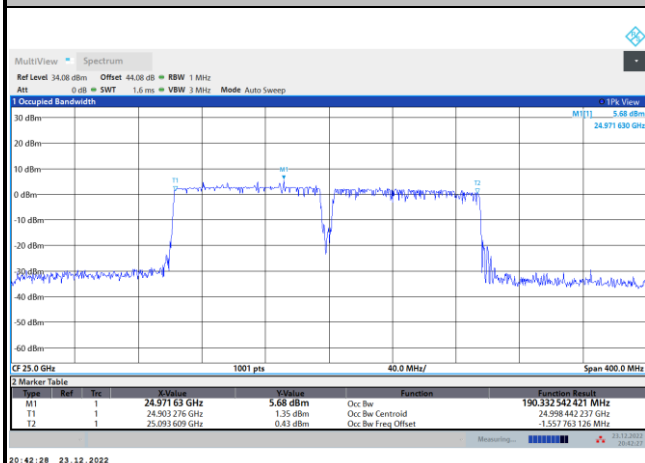
Lowest Channel / 200MHz / 64QAM



Lowest Channel / 300MHz / QPSK



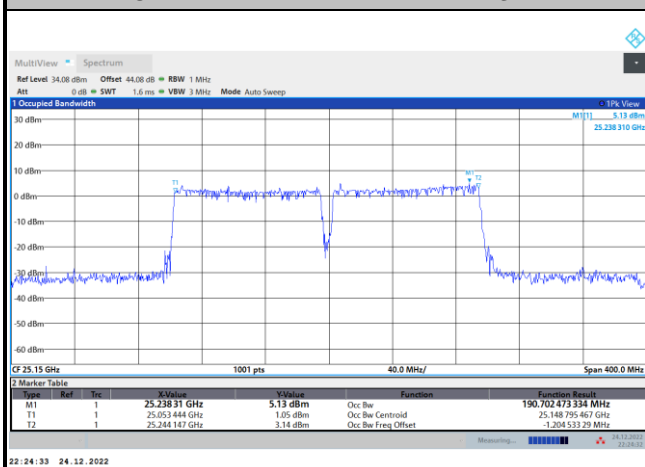
Middle Channel / 200MHz / 64QAM



Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

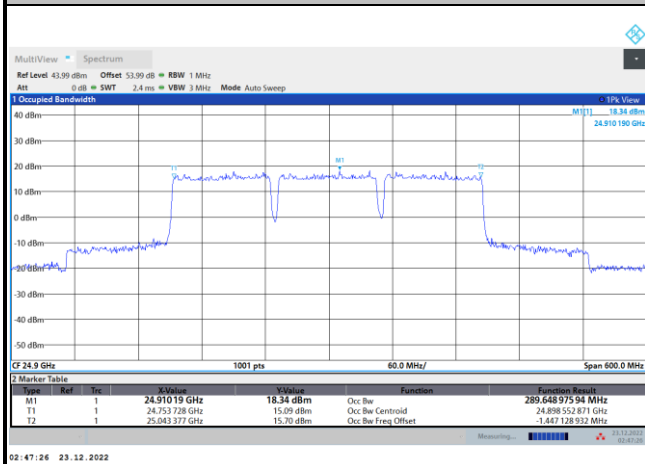




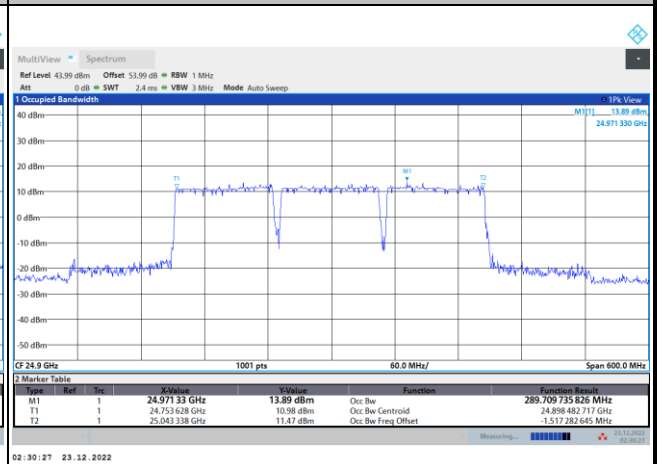
DFT-s-OFDM Module A

NR Band n258b

Lowest Channel / 300MHz / 16QAM



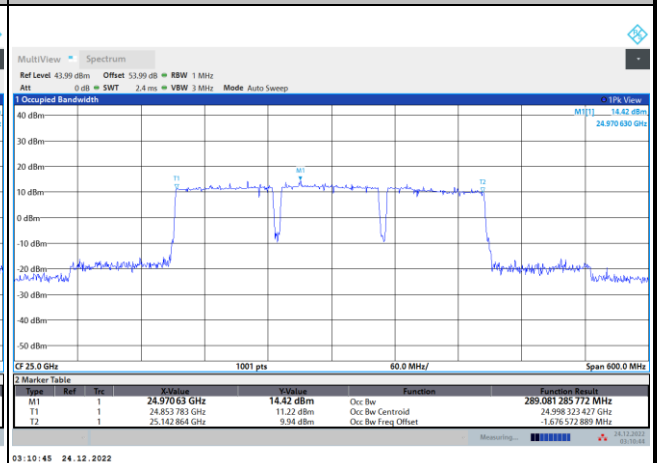
Lowest Channel / 300MHz / 64QAM



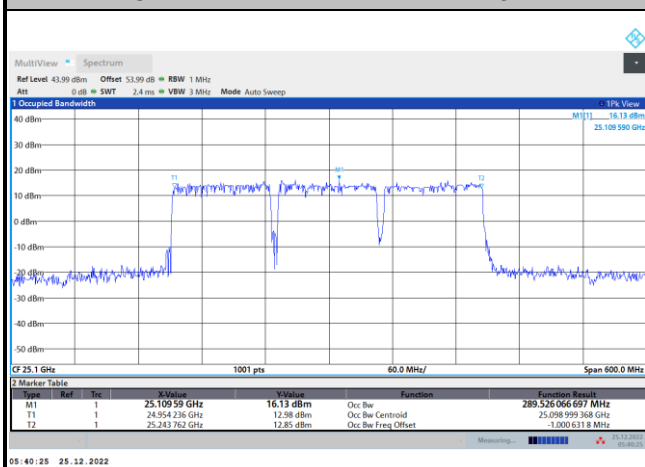
Middle Channel / 300MHz / 16QAM



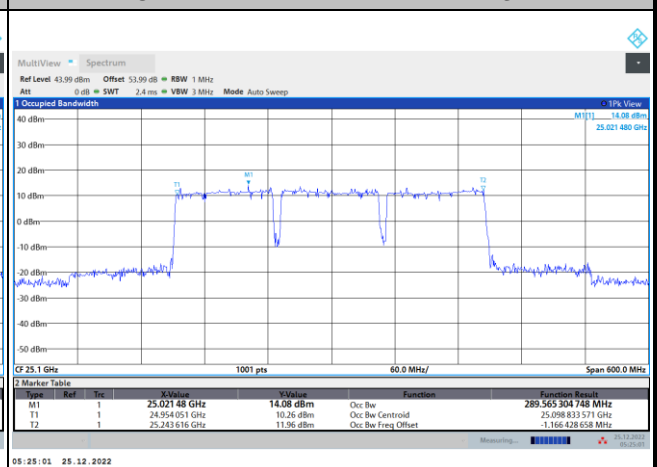
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM





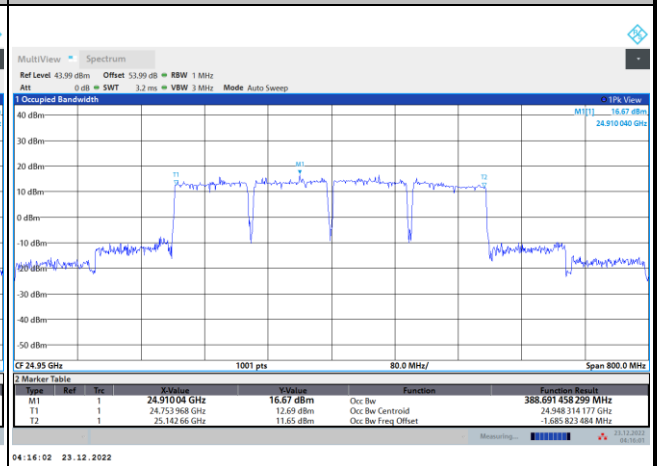
DFT-s-OFDM Module A

NR Band n258b

Lowest Channel / 400MHz / QPSK



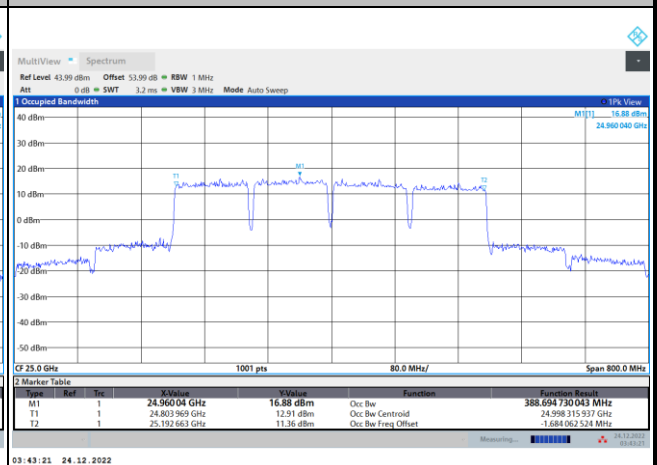
Lowest Channel / 400MHz / 16QAM



Middle Channel / 400MHz / QPSK



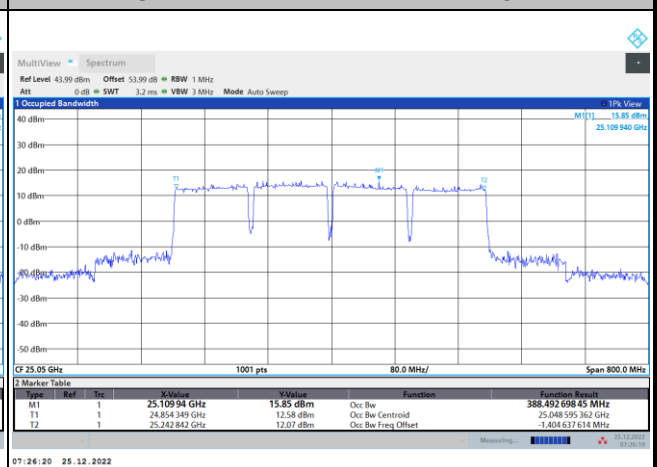
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM





DFT-s-OFDM Module A

