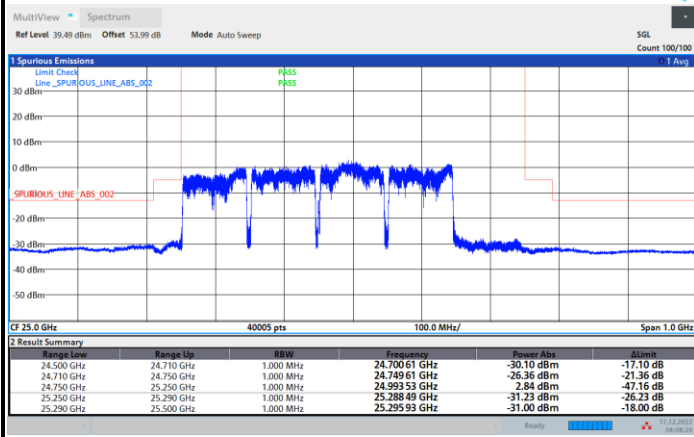




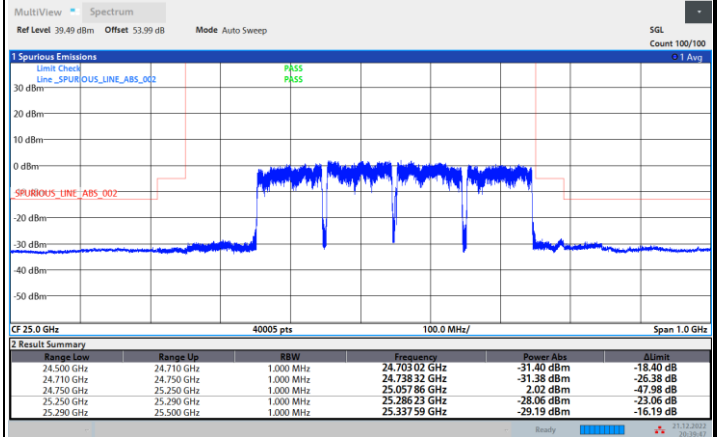
DFT-s-OFDM Module B

NR Band n258b / 400MHz / QPSK

Lowest Band Edge / Full RB

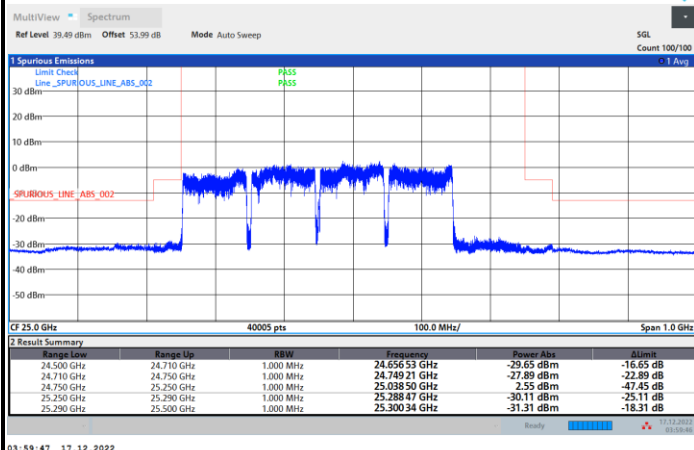


Highest Band Edge / Full RB

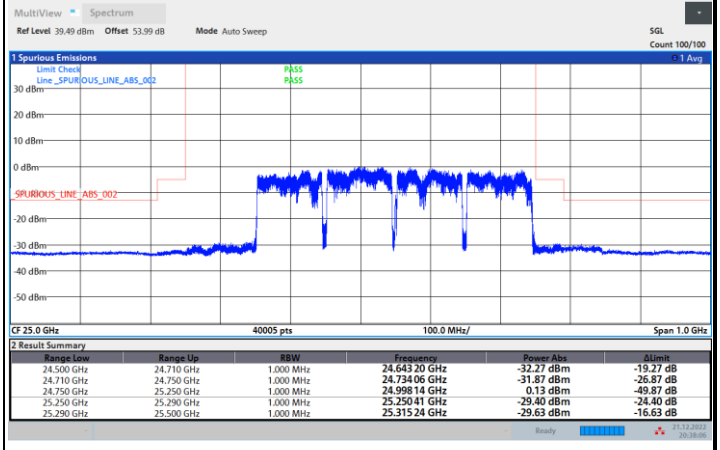


NR Band n258b / 400MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



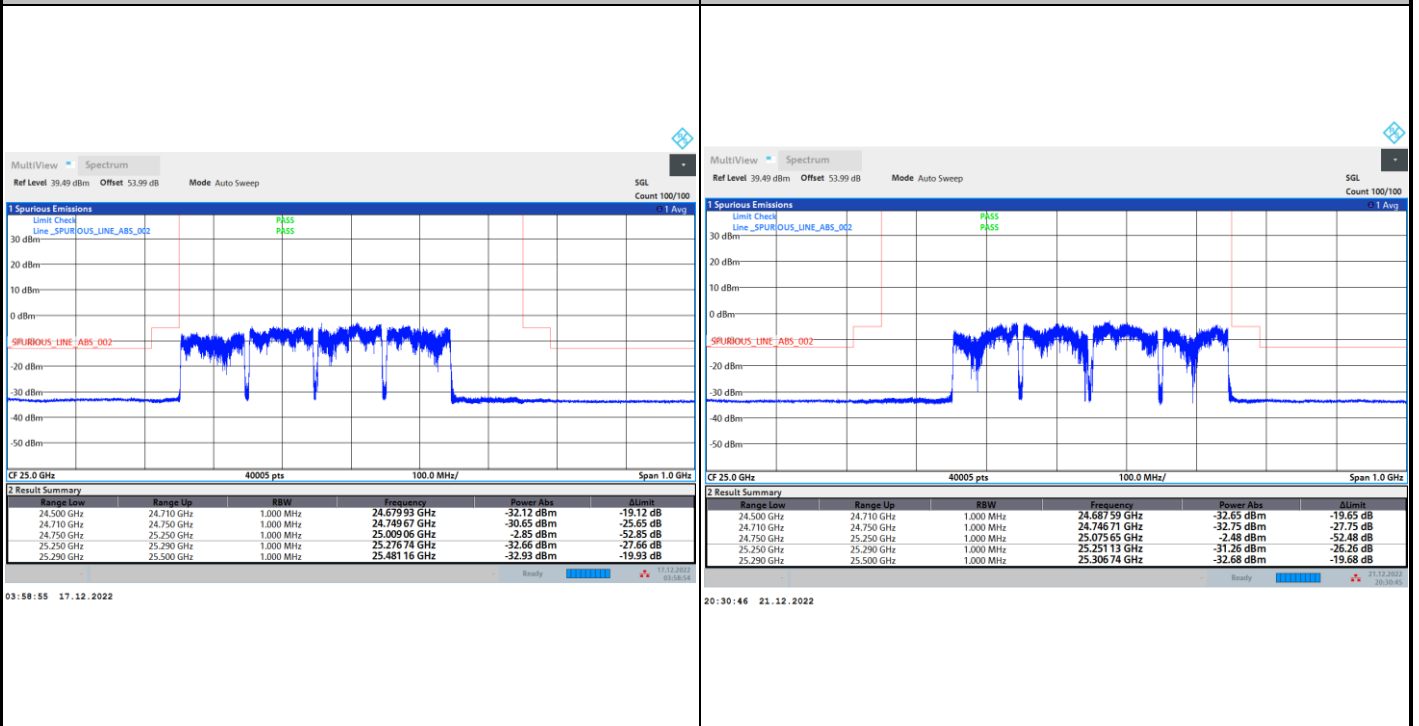


DFT-s-OFDM Module B

NR Band n258b / 400MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

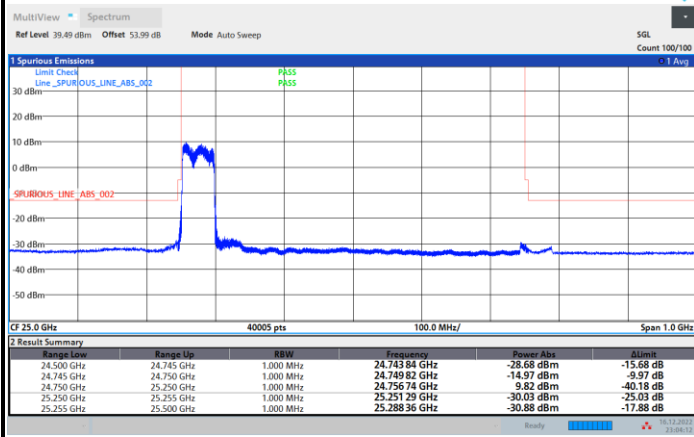




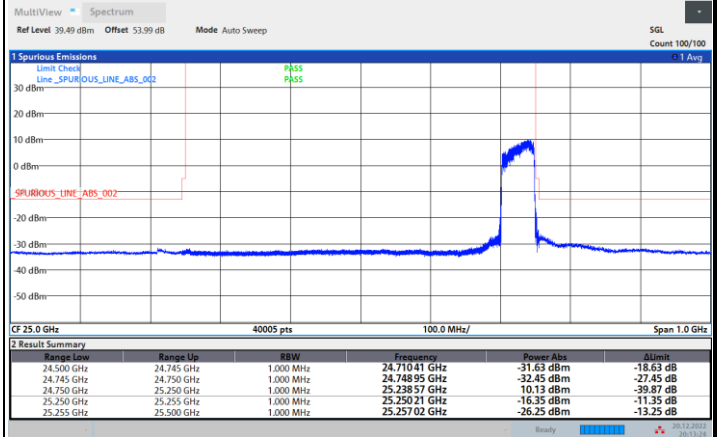
CP-OFDM Module B

NR Band n258b / 50MHz / QPSK

Lowest Band Edge / Full RB

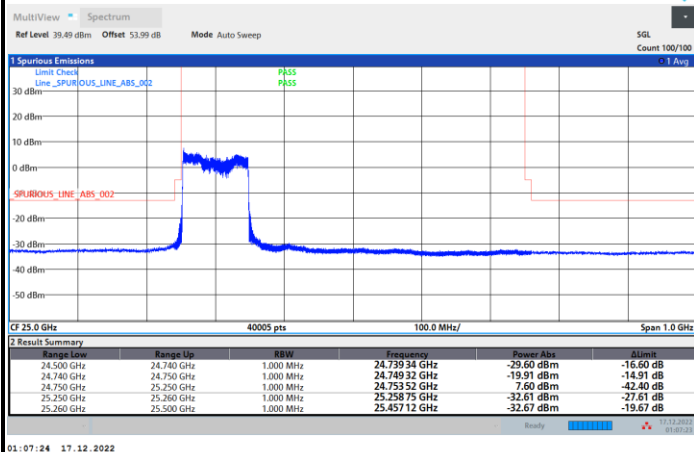


Highest Band Edge / Full RB

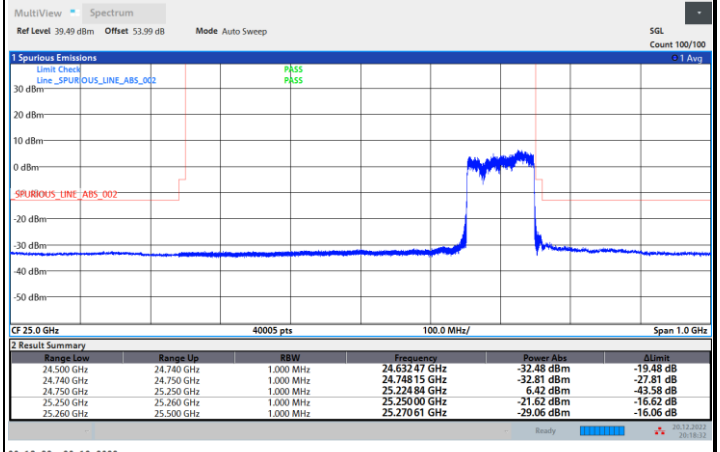


NR Band n258b / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

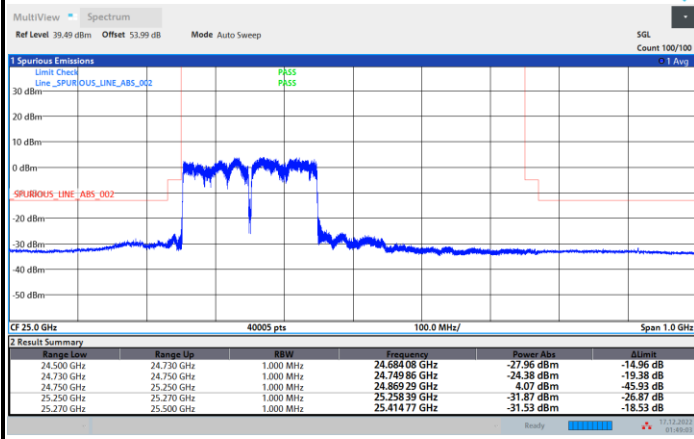




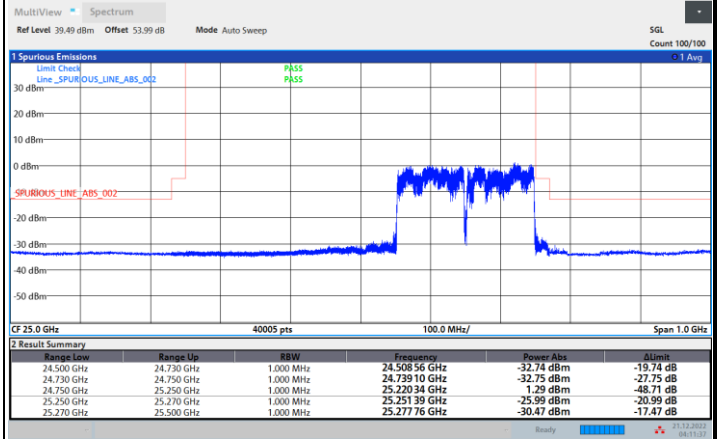
CP-OFDM Module B

NR Band n258b / 200MHz / QPSK

Lowest Band Edge / Full RB

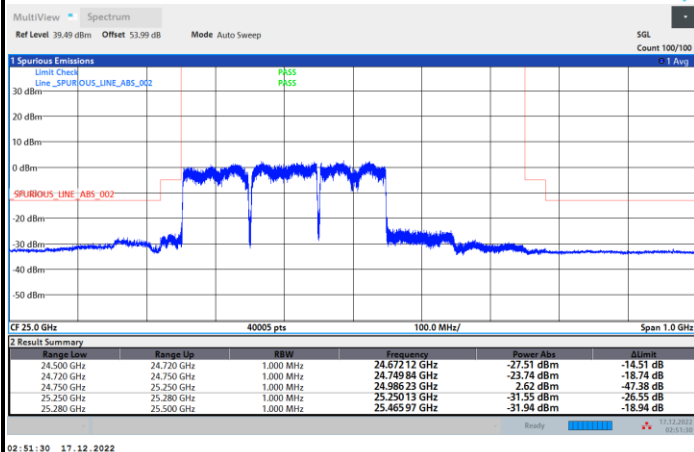


Highest Band Edge / Full RB

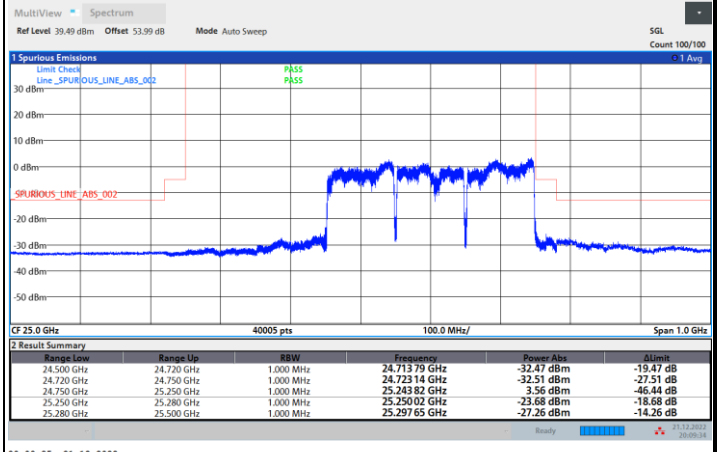


NR Band n258b / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



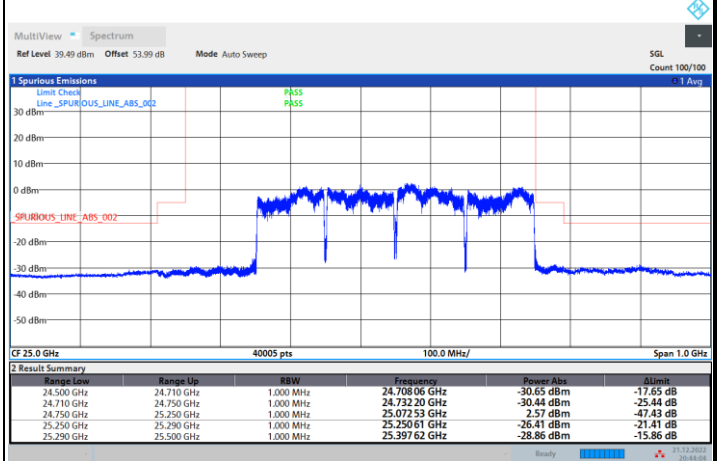
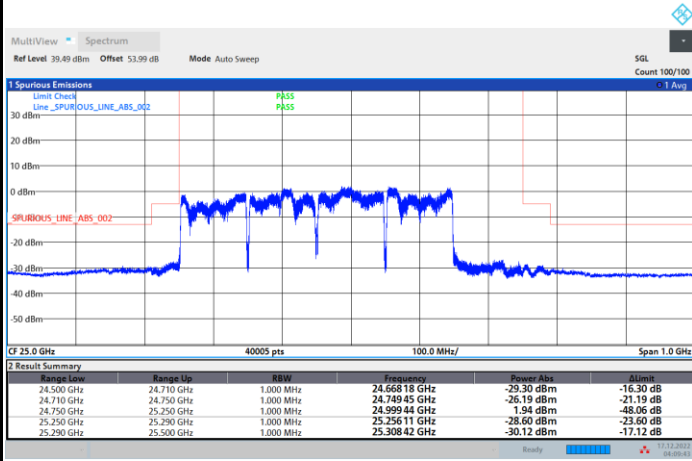


CP-OFDM Module B

NR Band n258b / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

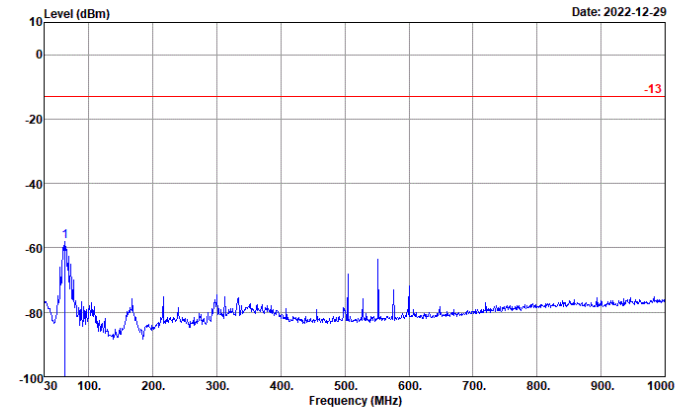




Spurious Emission

NR Band n258b (30MHz-1GHz)

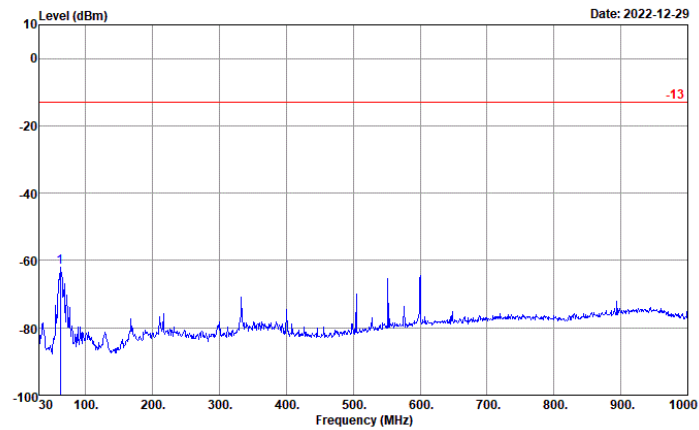
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 262403-03
 : n258b MB

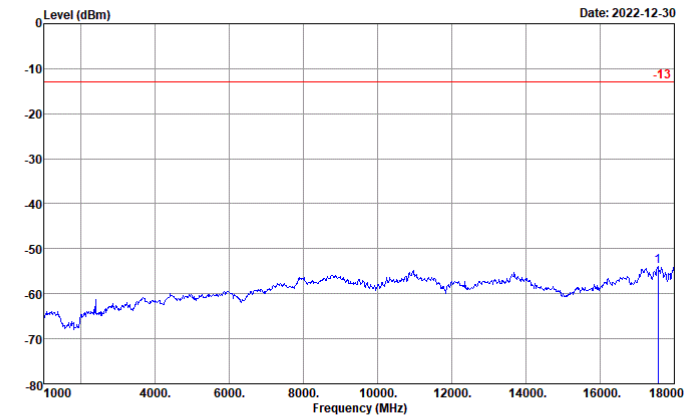
	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	62.98	-57.93	-44.93	-13.00	-52.94

Vertical



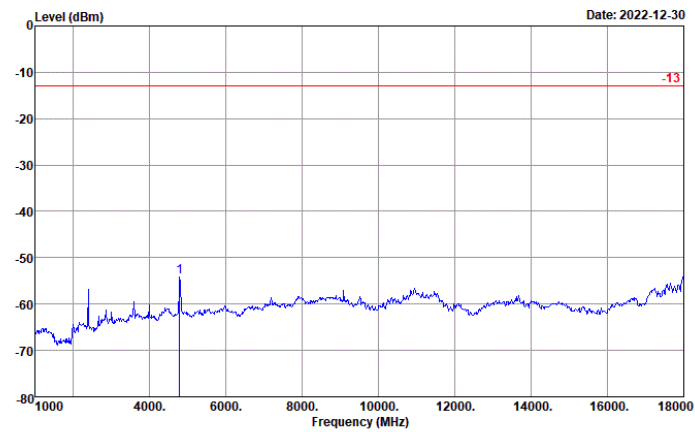
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 262403-03
 : n258b MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	62.01	-62.05	-49.05	-13.00	-53.27

**NR Band n258b (1GHz-18GHz)****Horizontal**

Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 262403-03
 : n258b MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	17558.00	-53.96	-40.96	-13.00	-68.04

Vertical

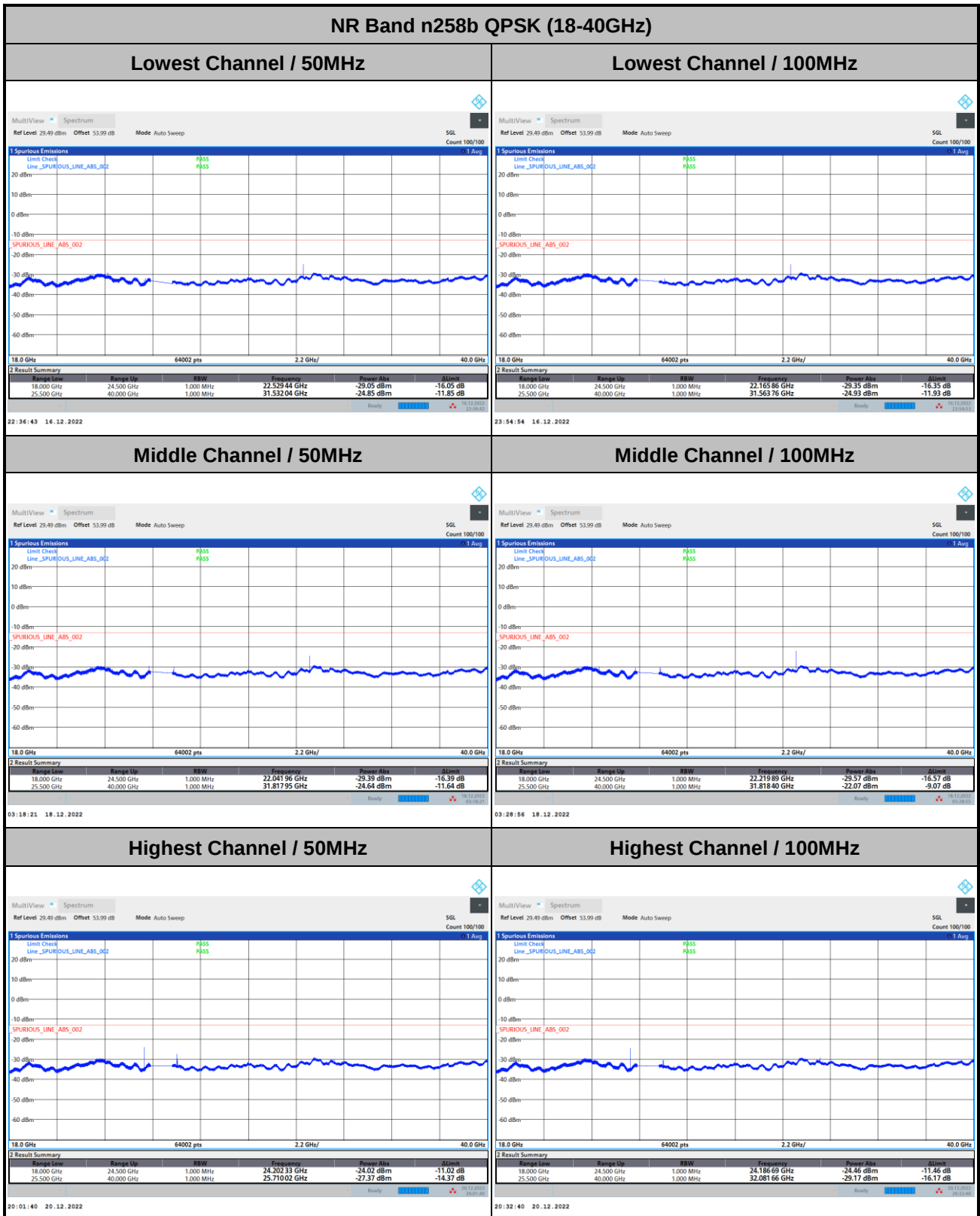
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 262403-03
 : n258b MB

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	4791.00	-54.07	-41.07	-13.00	-46.83



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

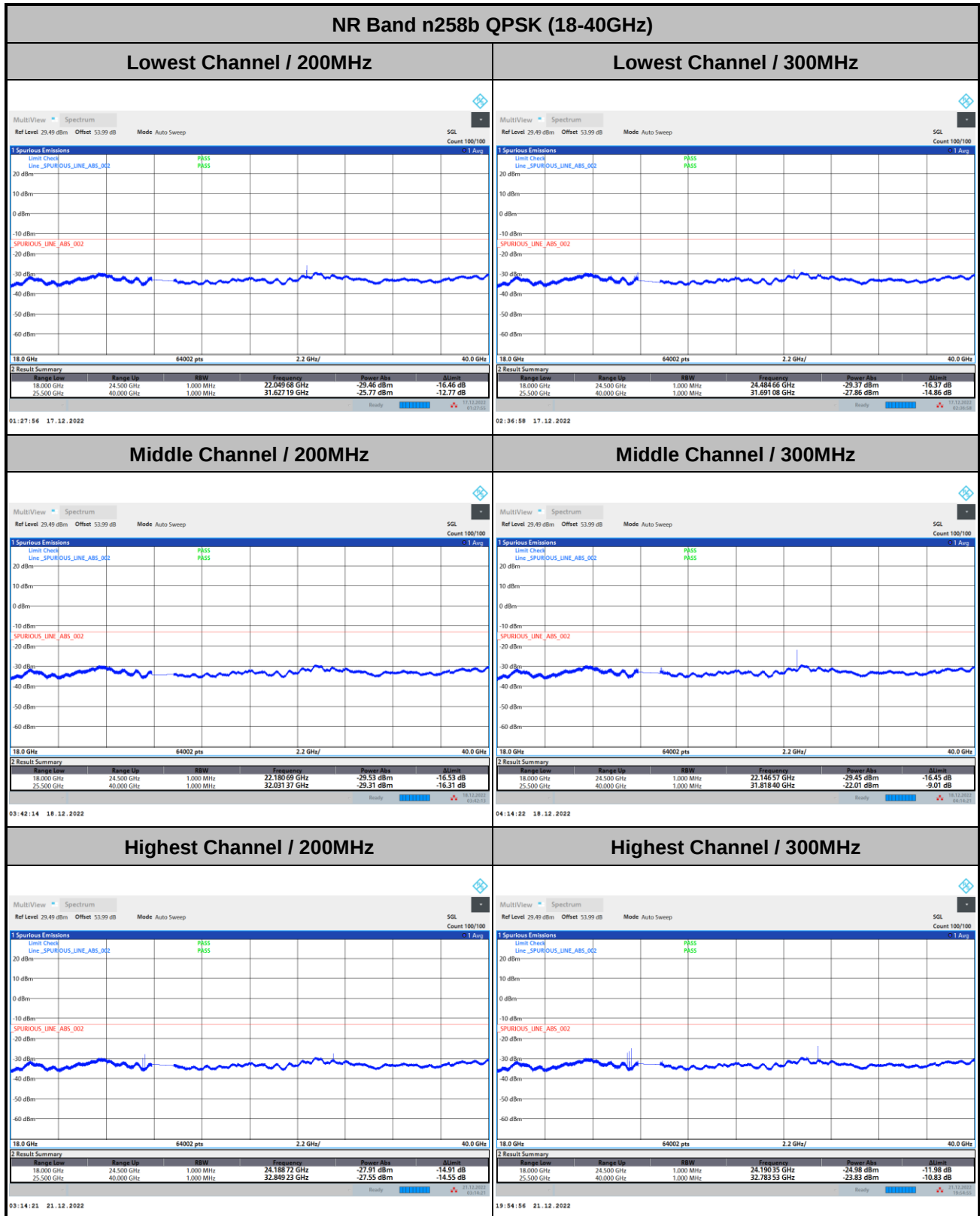
DFT-s-OFDM Module B



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



DFT-s-OFDM Module B



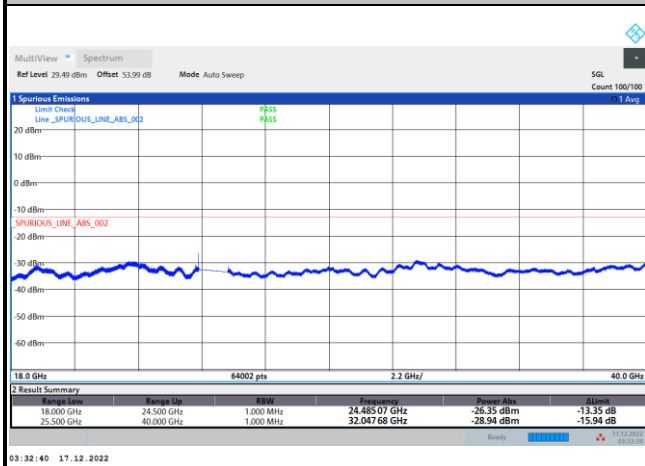
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module B

NR Band n258b QPSK (18-40GHz)

Lowest Channel / 400MHz



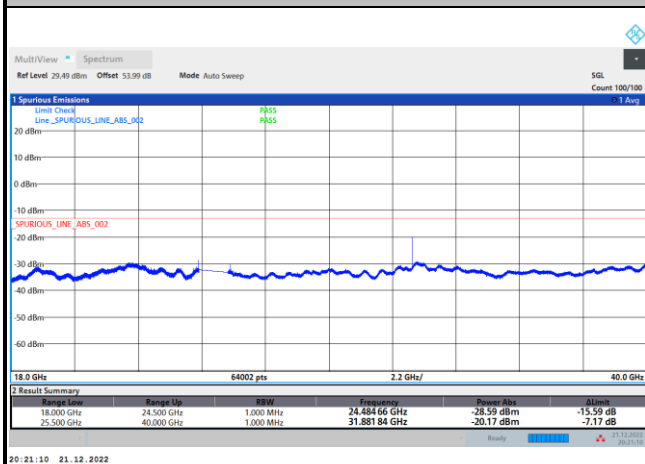
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz

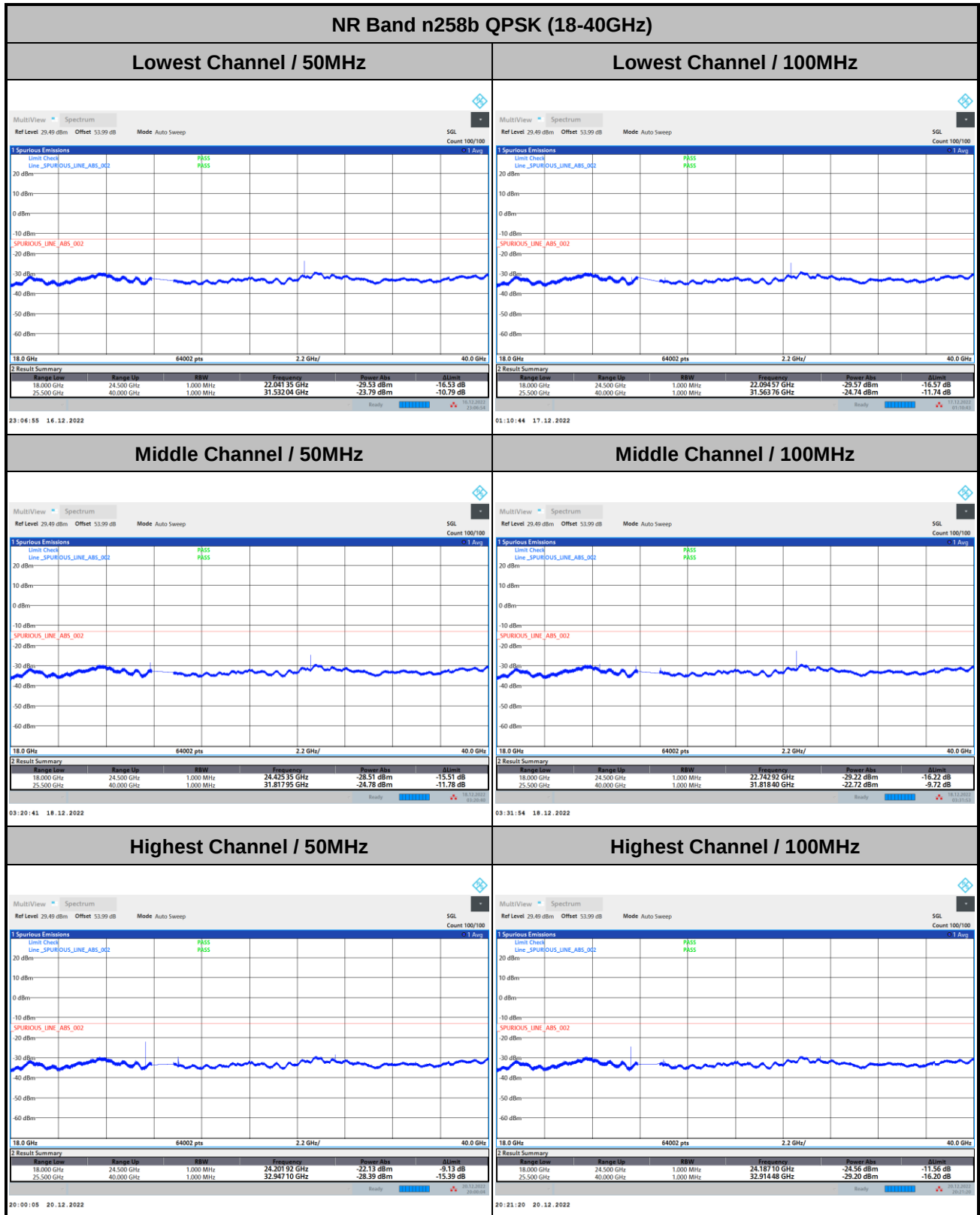


intentionally blank

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



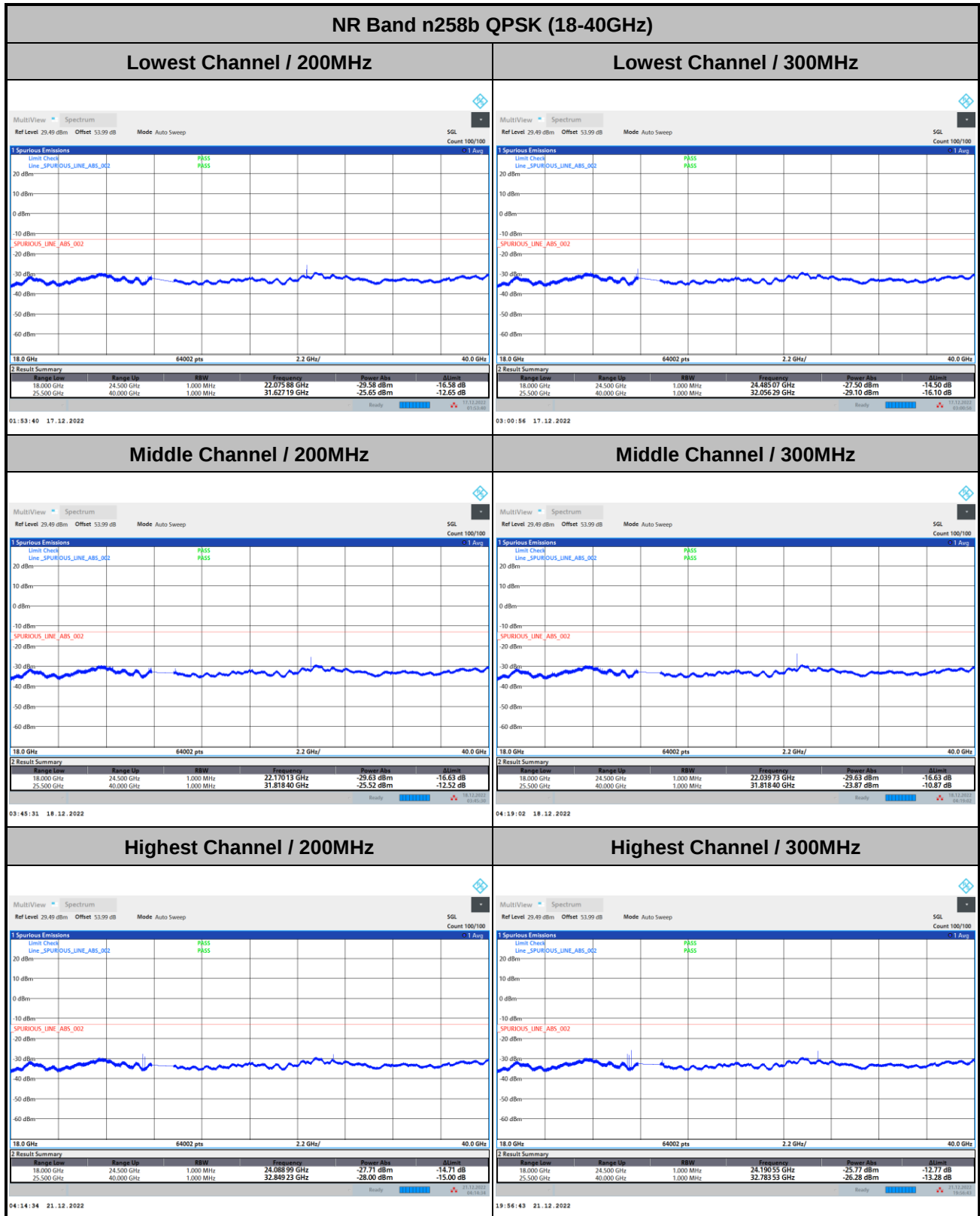
CP-OFDM Module B



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



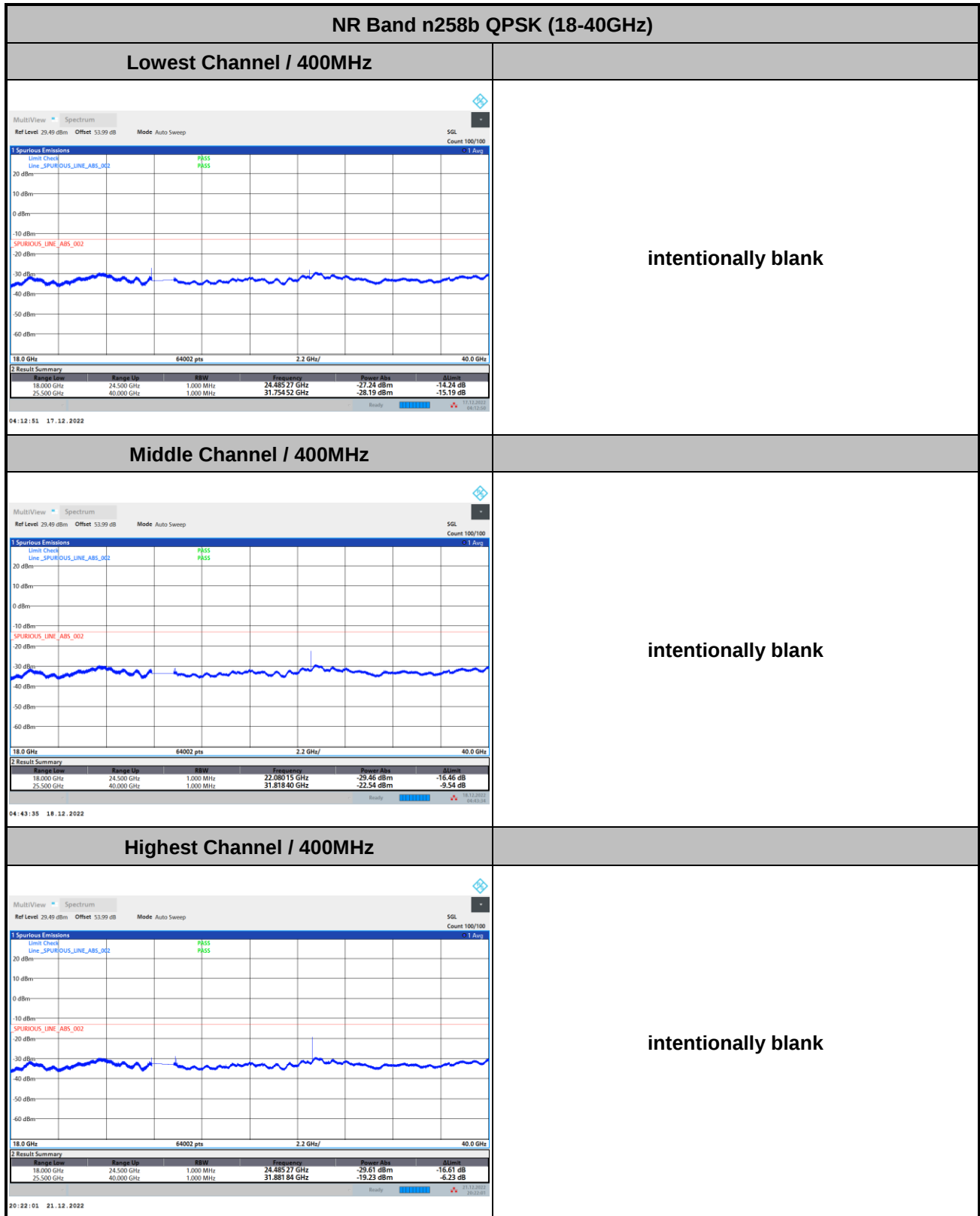
CP-OFDM Module B



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



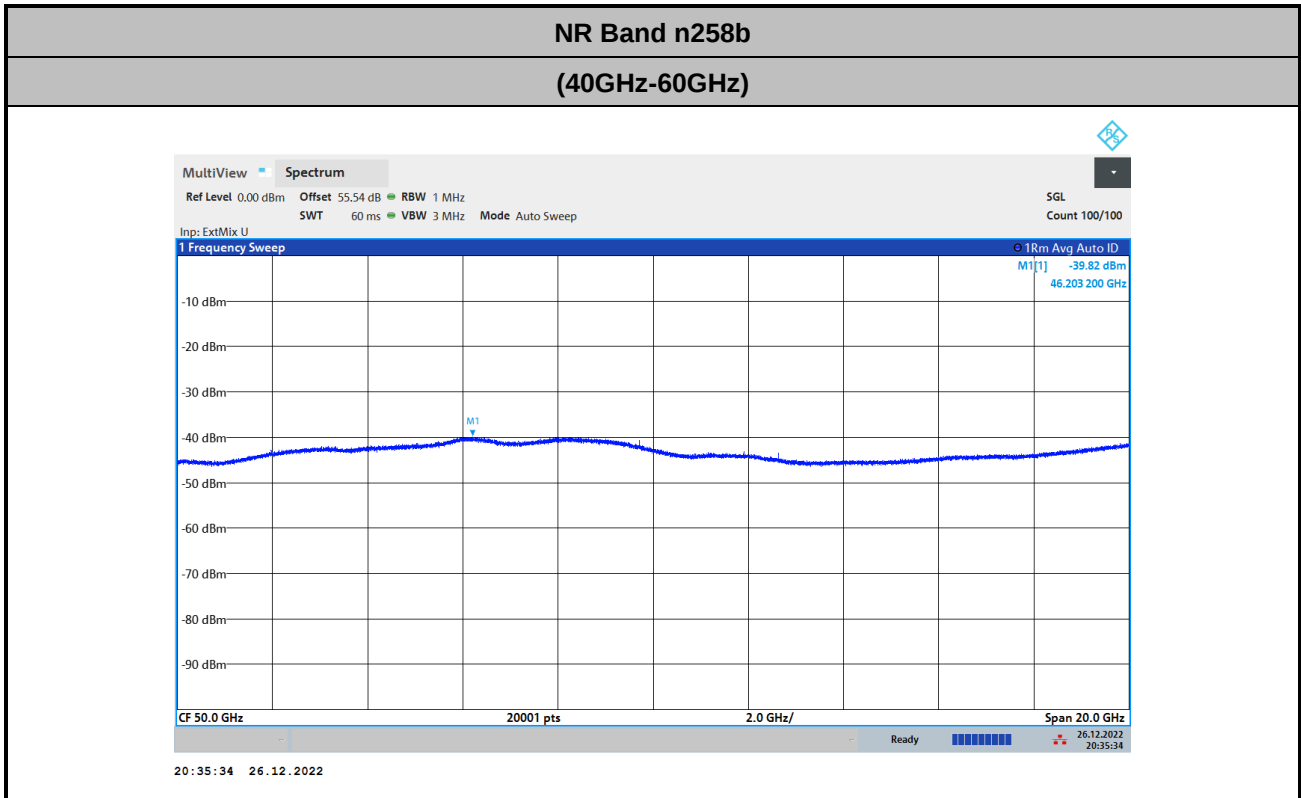
CP-OFDM Module B



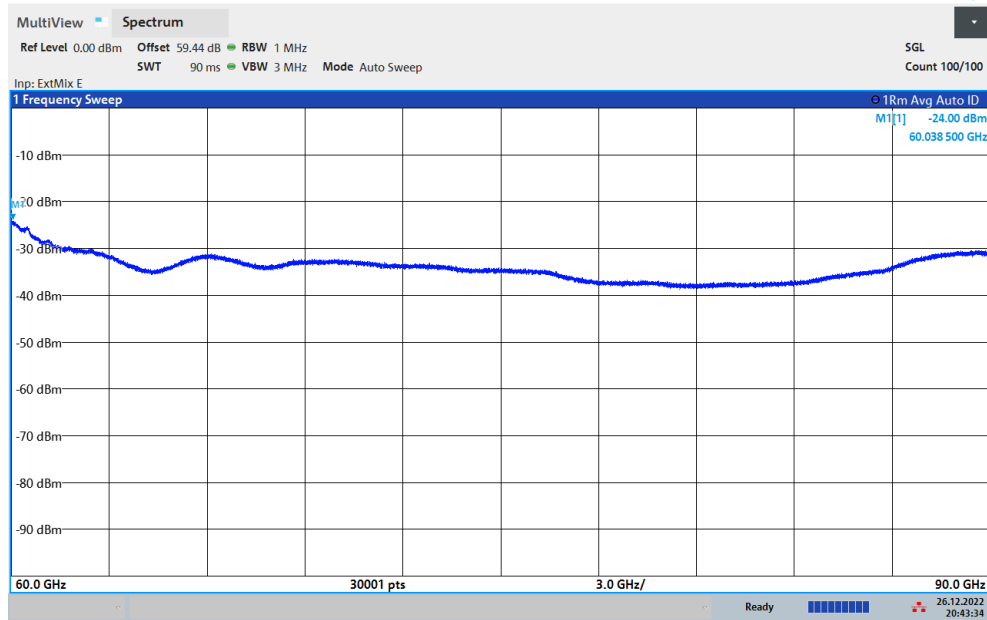
Remark: In band and out of band frequencies are omitted.

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.

Only the noise floor is reported.

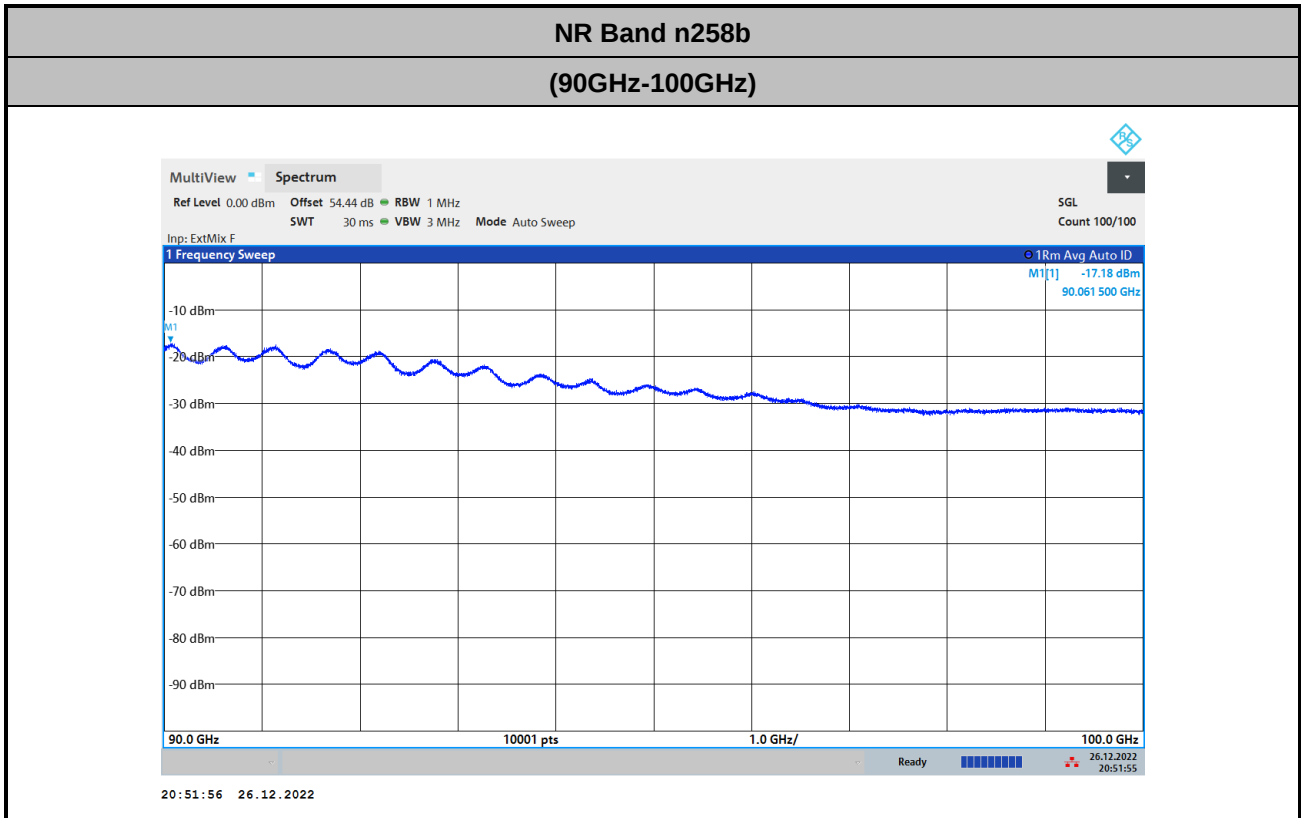


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 43 + 0.43 + 107 + 20\log(1) - 104.8 + 9.91 = 55.54(\text{dB}) \end{aligned}$$

NR Band n258b
(60GHz-90GHz)


20:43:35 26.12.2022

$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor} \\ &= 46.9 + 0.43 + 107 + 20\log(1) - 104.8 + 9.91 = 59.44 \text{ (dB)} \end{aligned}$$



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

Frequency Stability

Test Conditions		NR Band n258b / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.999995	5.000	0.130	Pass
40	Normal Voltage	24.99997842	21.580	0.561	
30	Normal Voltage	24.99998042	19.580	0.509	
20(Ref.)	Normal Voltage	25	0.000	0.000	
10	Normal Voltage	25.00007692	-76.920	1.998	
0	Normal Voltage	25.0000974	-97.400	2.530	
-10	Normal Voltage	25.00013586	-135.860	3.529	
-20	Normal Voltage	25.00017532	-175.320	4.554	
-30	Normal Voltage	25.00018342	-183.420	4.764	
20	Maximum Voltage	25.00006593	-65.930	1.712	
20	Normal Voltage	24.99998601	13.990	0.363	
20	Battery End Point	24.99998302	16.980	0.441	

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 n260 Module A AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n260 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.90	45.91	45.70	91.23	91.25	91.27	189.54	189.86	189.66
Middle CH	46.21	45.93	45.84	91.34	91.26	91.18	189.14	189.15	189.32
Highest CH	45.82	45.98	45.85	91.09	91.18	91.16	189.17	189.36	189.50

Mode	DFT-s-OFDM Module A NR Band n260 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	288.02	288.07	288.59	387.14	386.39	387.01
Middle CH	287.80	287.53	288.28	386.07	386.15	386.38
Highest CH	288.54	288.71	288.93	388.11	387.54	387.62

Mode	CP-OFDM Module A NR Band n260 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.03	94.42	192.92
Middle CH	45.95	94.11	192.56
Highest CH	45.98	93.86	192.33

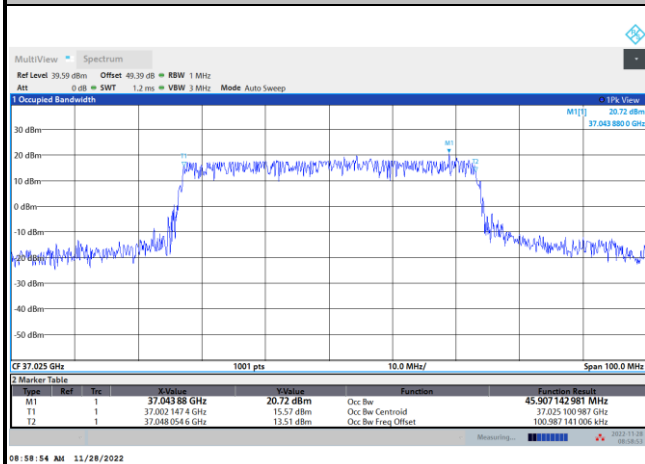
Mode	CP-OFDM Module A NR Band n260 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	289.85	389.10
Middle CH	291.86	390.14
Highest CH	292.24	390.86



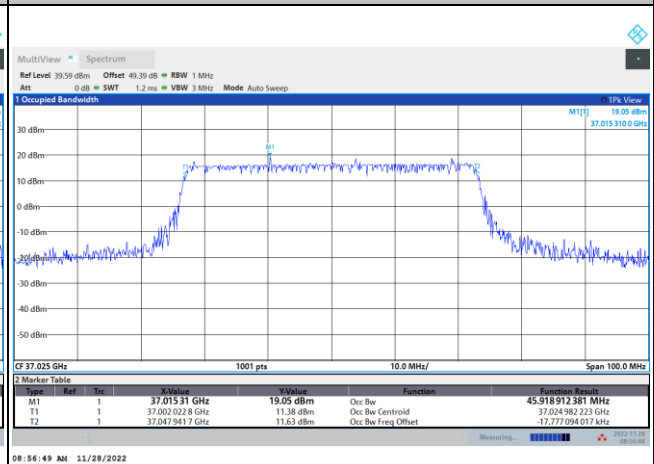
DFT-s-OFDM Module A

NR Band n260

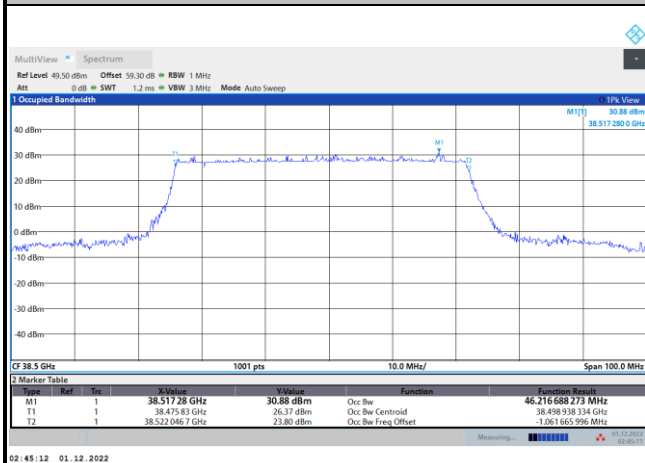
Lowest Channel / 50MHz / QPSK



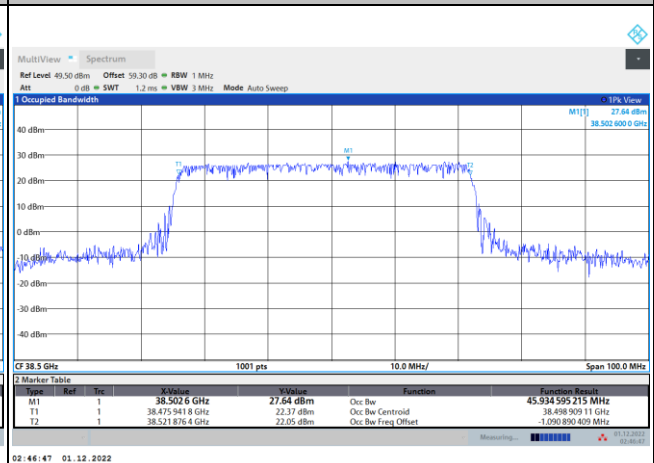
Lowest Channel / 50MHz / 16QAM



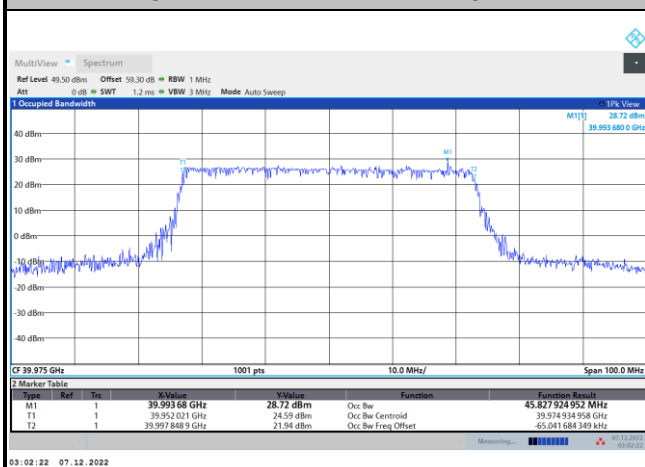
Middle Channel / 50MHz / QPSK



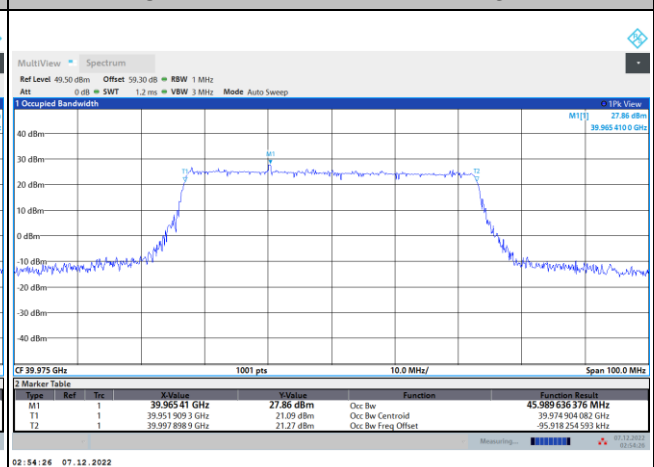
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

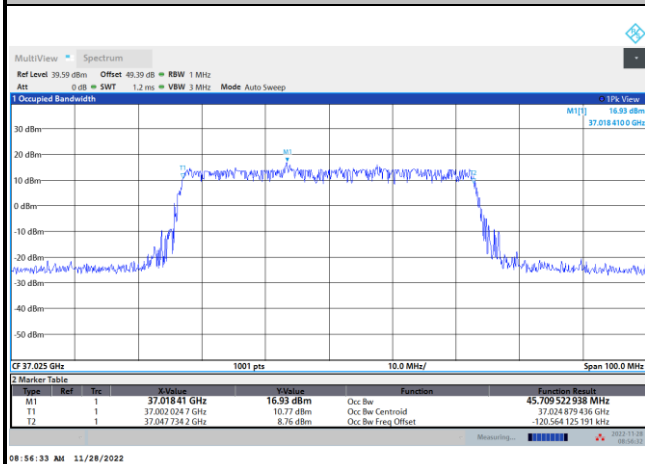




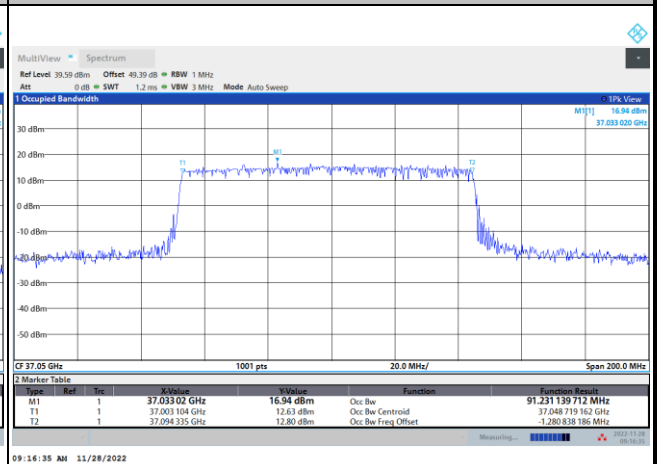
DFT-s-OFDM Module A

NR Band n260

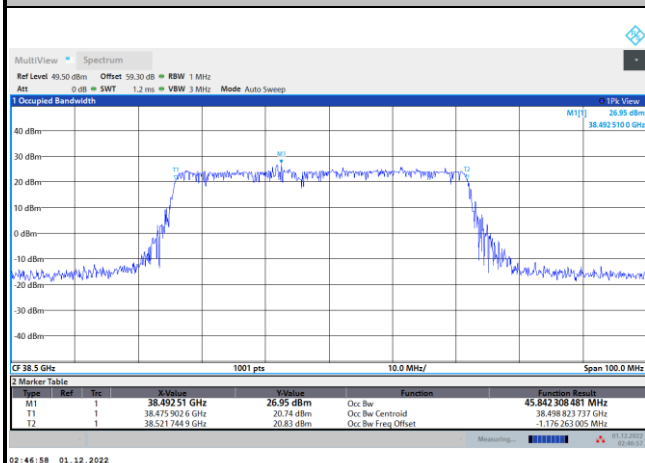
Lowest Channel / 50MHz / 64QAM



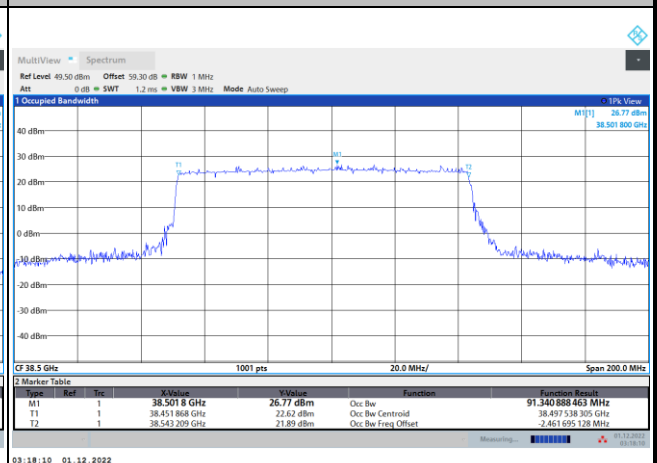
Lowest Channel / 100MHz / QPSK



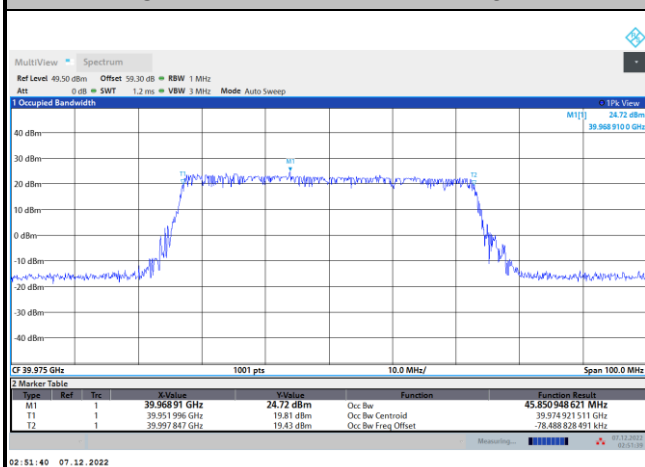
Middle Channel / 50MHz / 64QAM



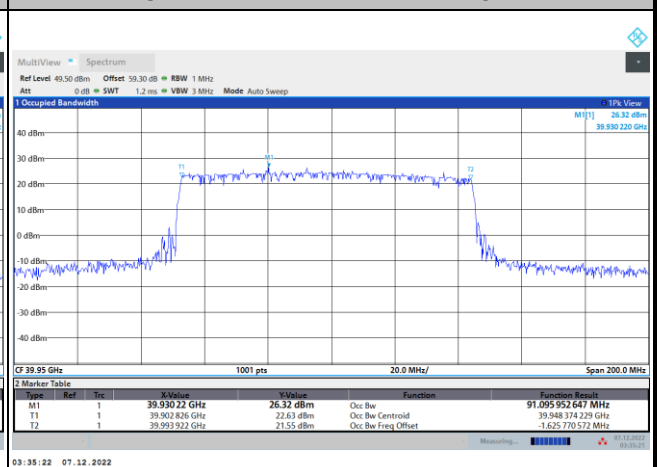
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

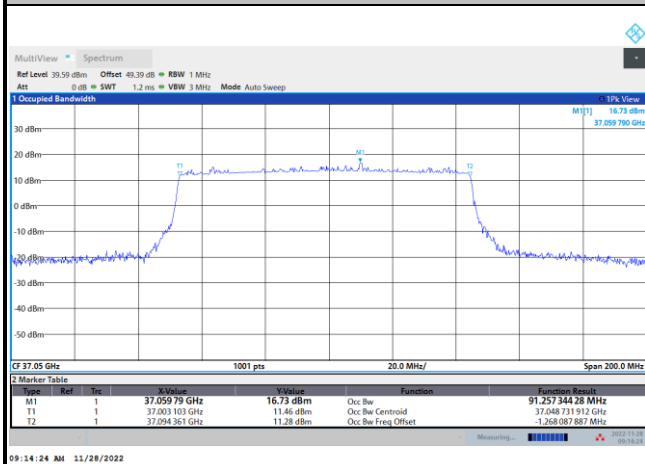




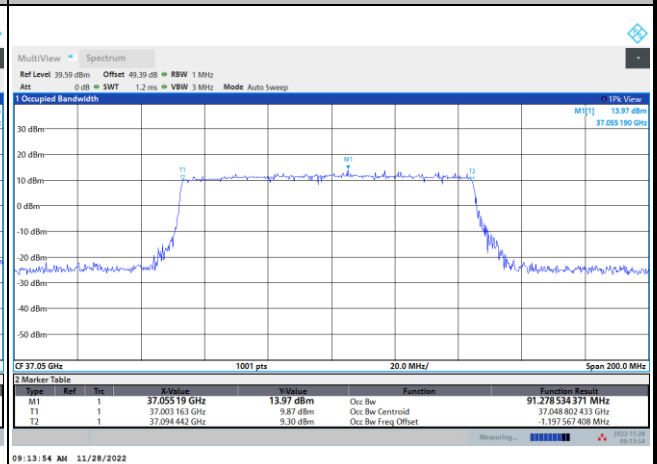
DFT-s-OFDM Module A

NR Band n260

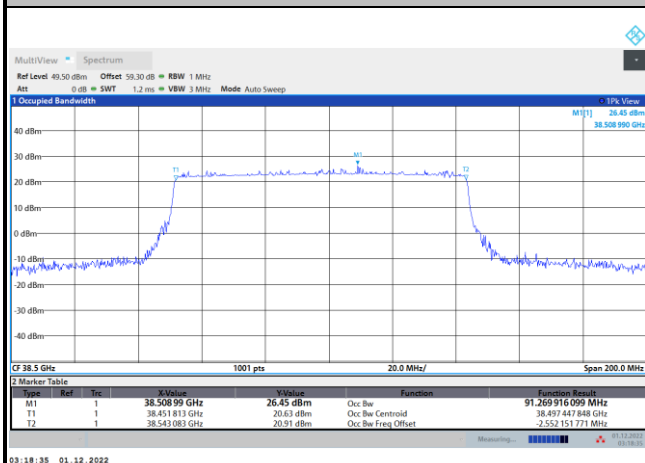
Lowest Channel / 100MHz / 16QAM



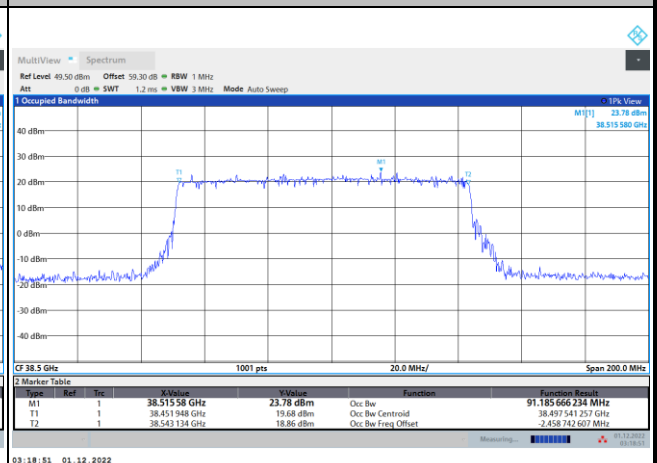
Lowest Channel / 100MHz / 64QAM



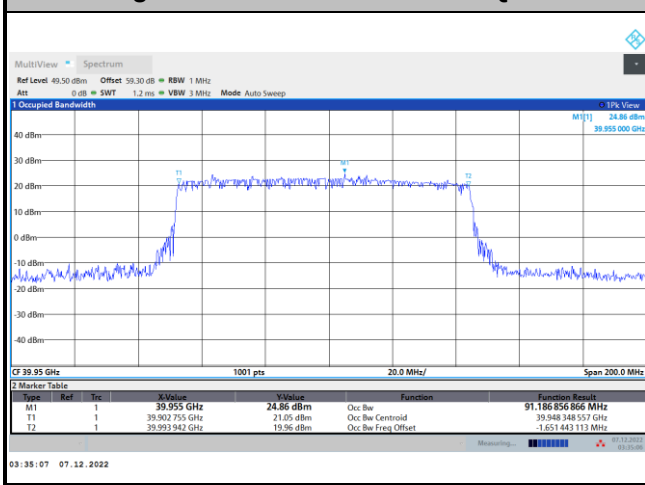
Middle Channel / 100MHz / 16QAM



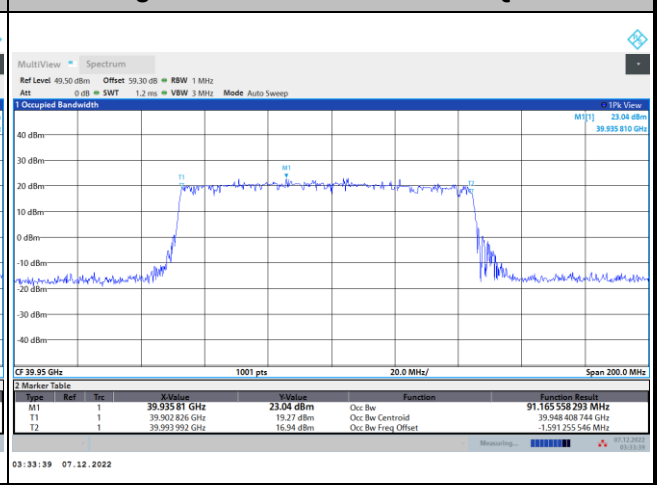
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

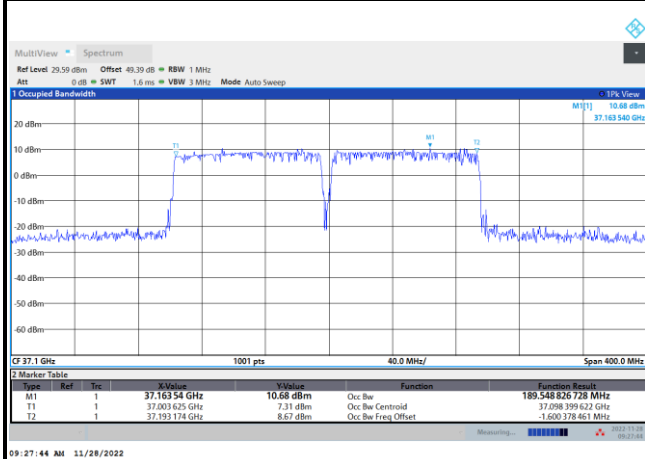




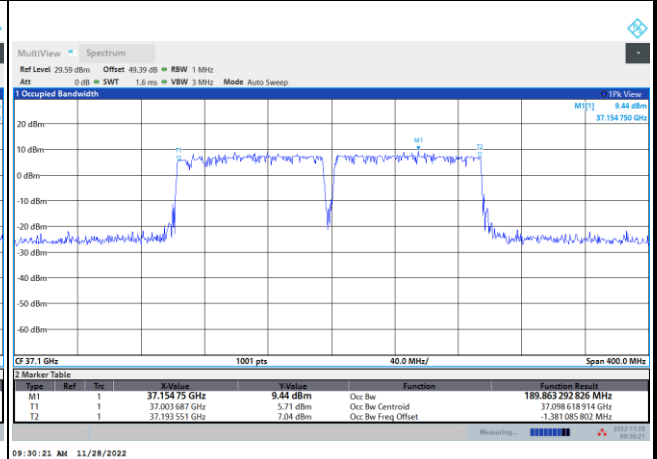
DFT-s-OFDM Module A

NR Band n260

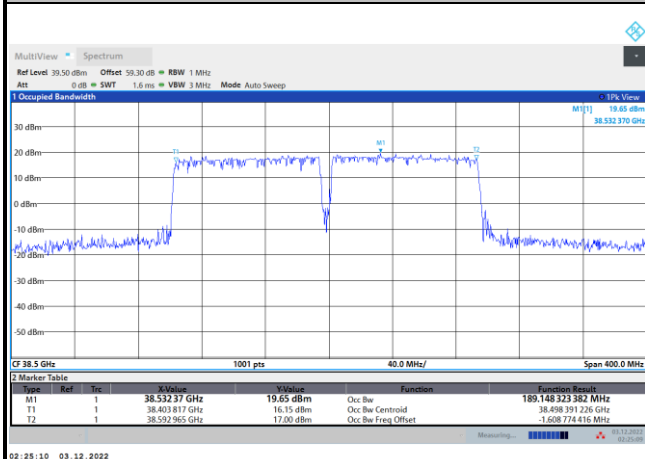
Lowest Channel / 200MHz / QPSK



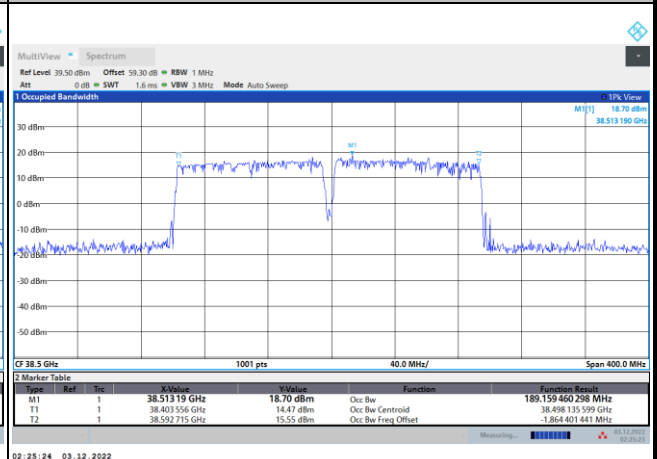
Lowest Channel / 200MHz / 16QAM



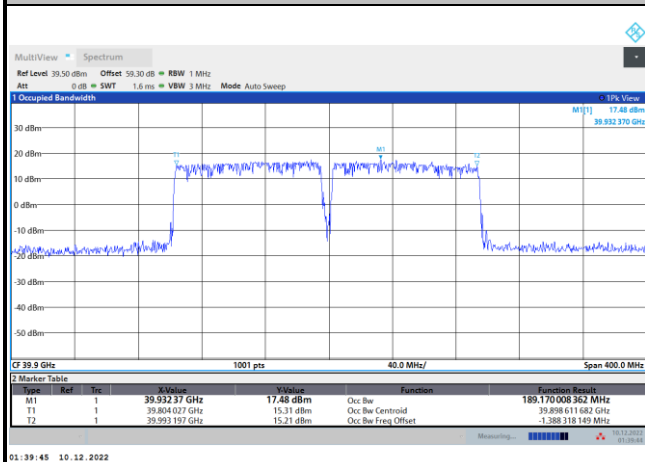
Middle Channel / 200MHz / QPSK



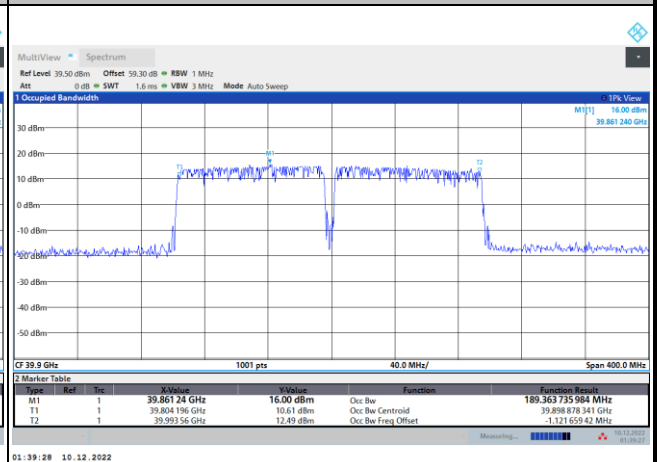
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

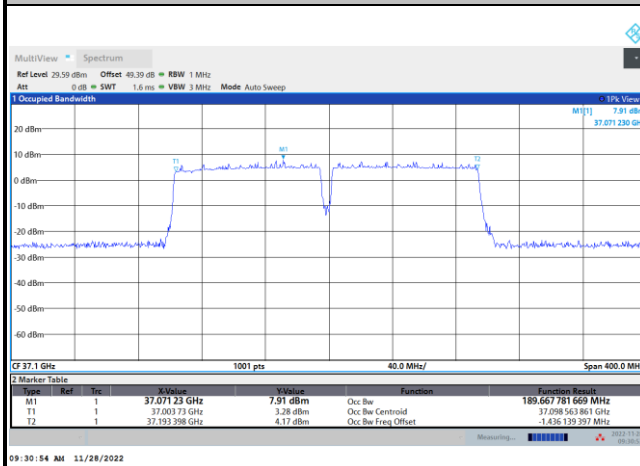




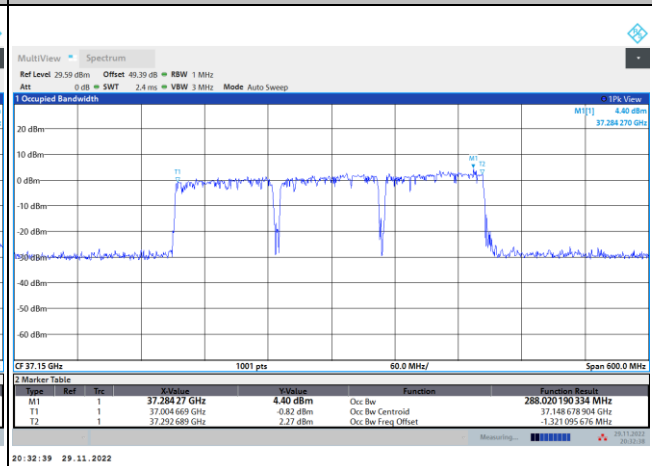
DFT-s-OFDM Module A

NR Band n260

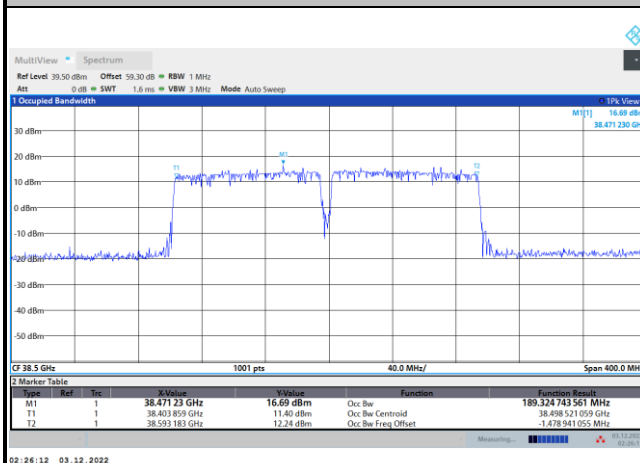
Lowest Channel / 200MHz / 64QAM



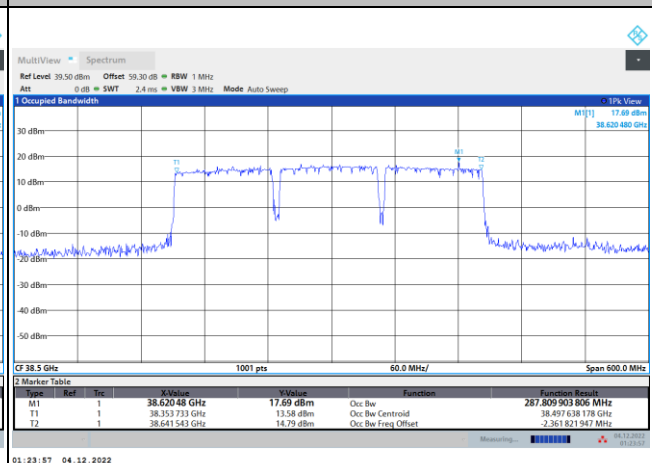
Lowest Channel / 300MHz / QPSK



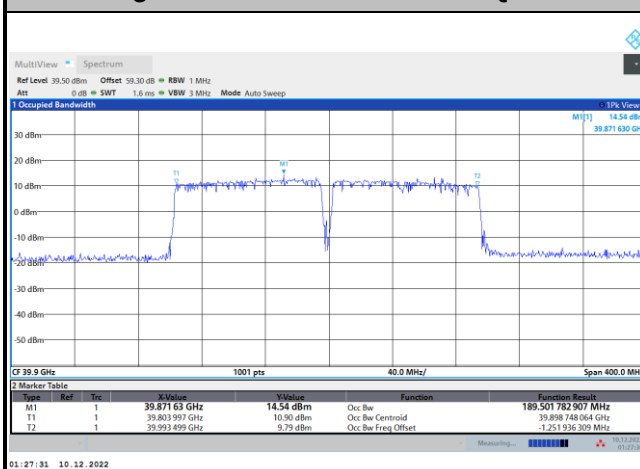
Middle Channel / 200MHz / 64QAM



Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

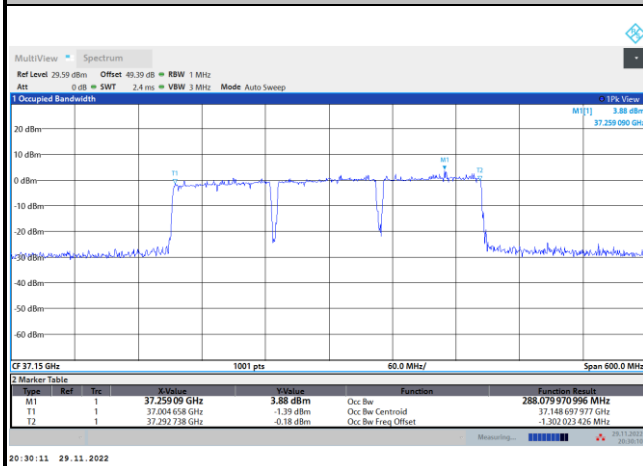




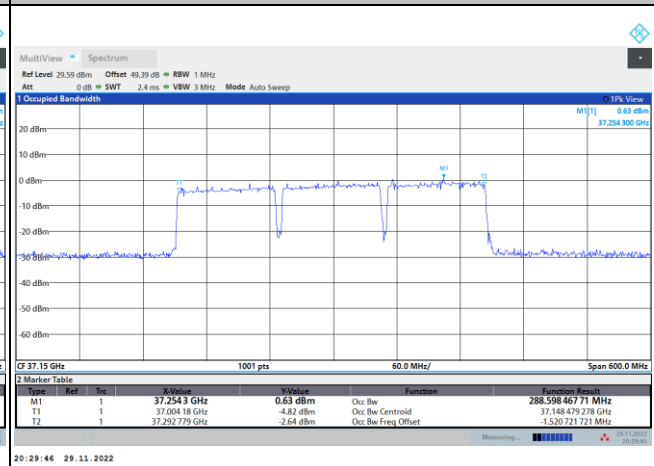
DFT-s-OFDM Module A

NR Band n260

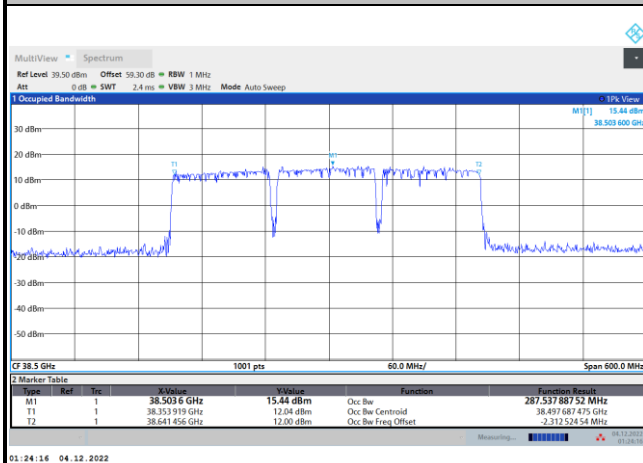
Lowest Channel / 300MHz / 16QAM



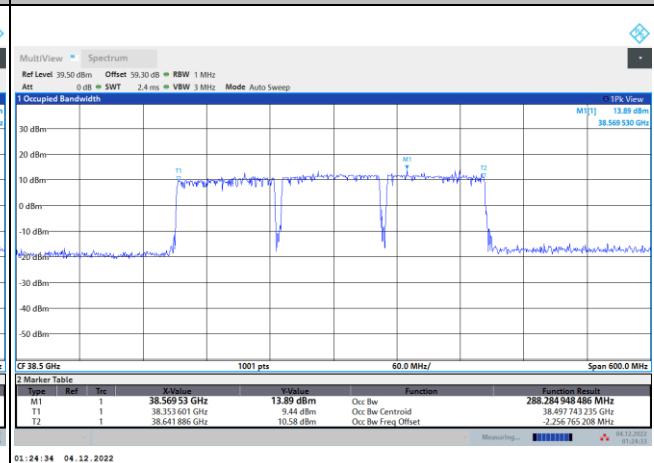
Lowest Channel / 300MHz / 64QAM



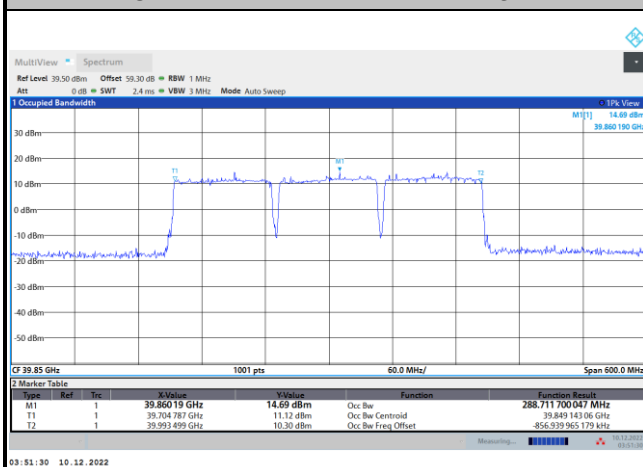
Middle Channel / 300MHz / 16QAM



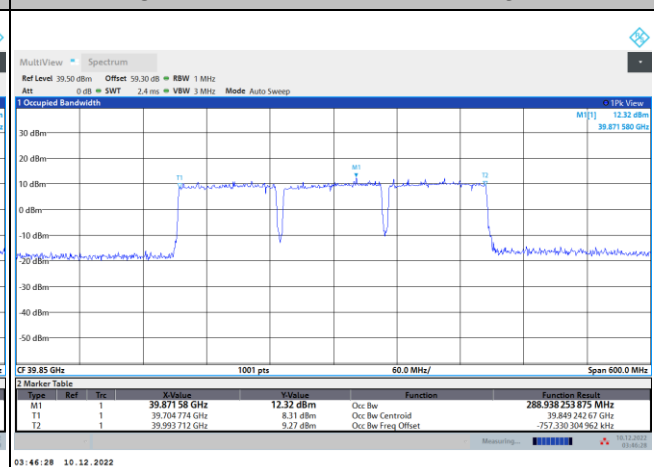
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



Highest Channel / 300MHz / 64QAM





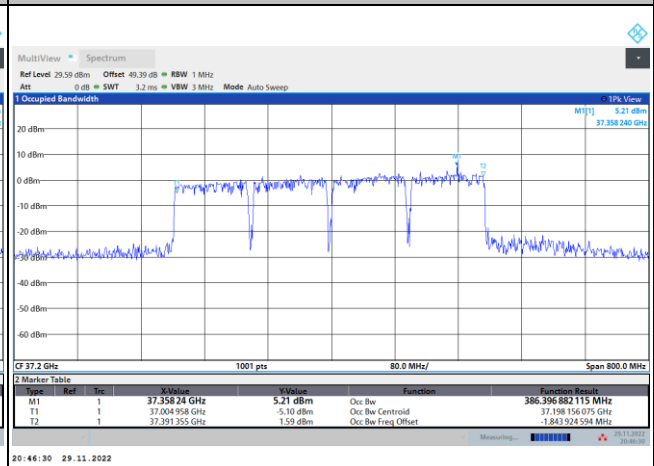
DFT-s-OFDM Module A

NR Band n260

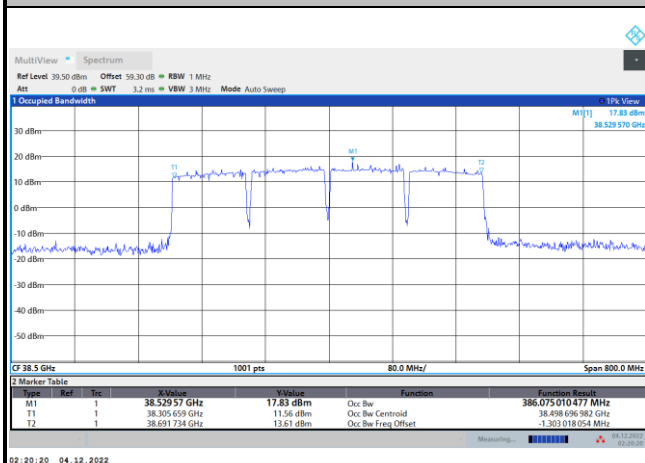
Lowest Channel / 400MHz / QPSK



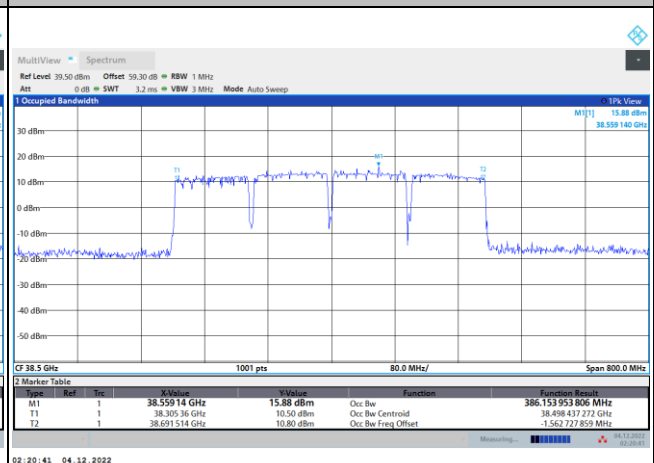
Lowest Channel / 400MHz / 16QAM



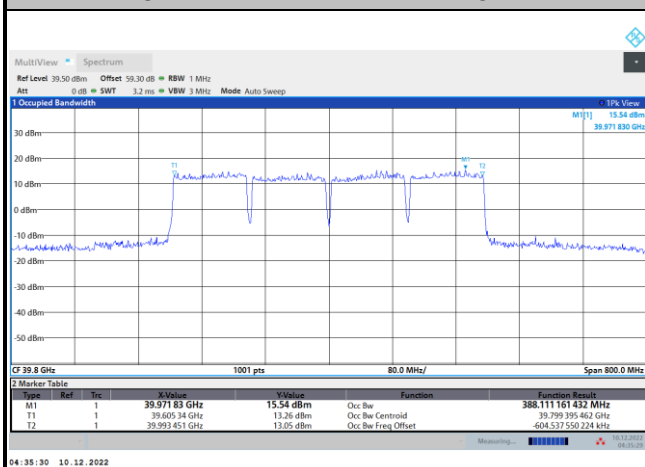
Middle Channel / 400MHz / QPSK



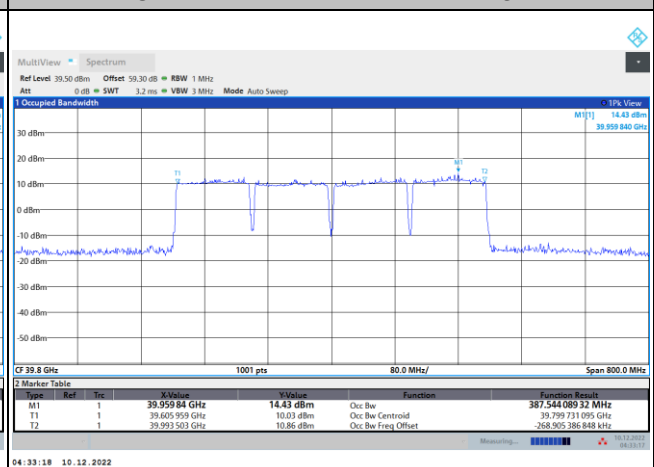
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM





DFT-s-OFDM Module A

