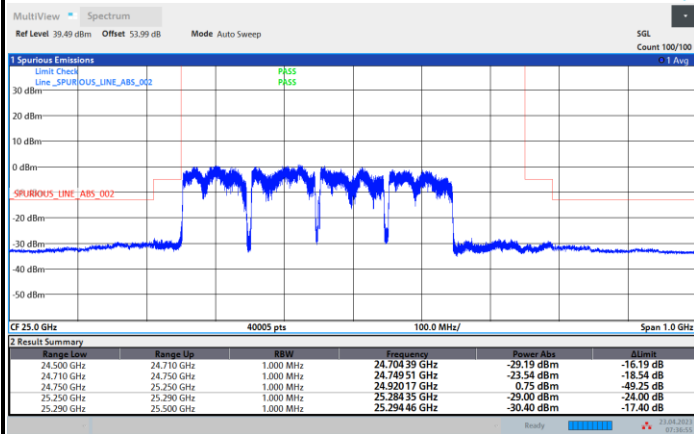




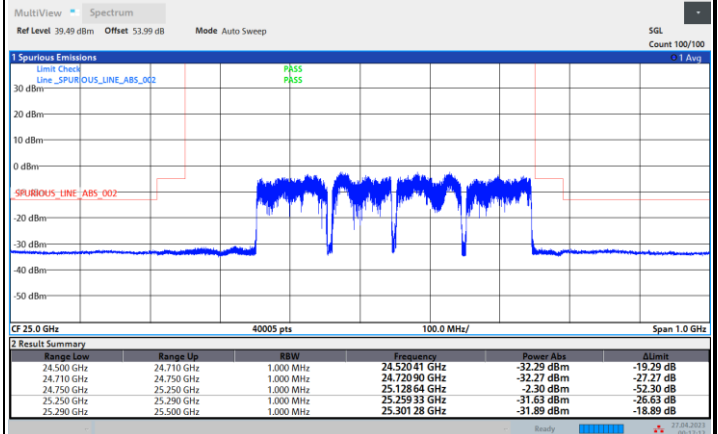
DFT-s-OFDM Module A

NR Band n258b / 400MHz / QPSK

Lowest Band Edge / Full RB

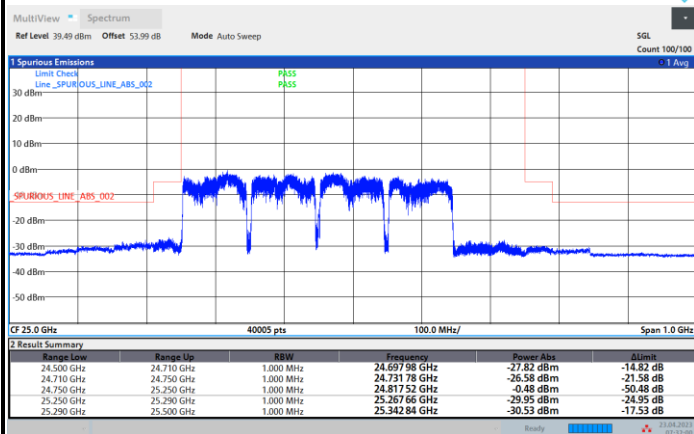


Highest Band Edge / Full RB

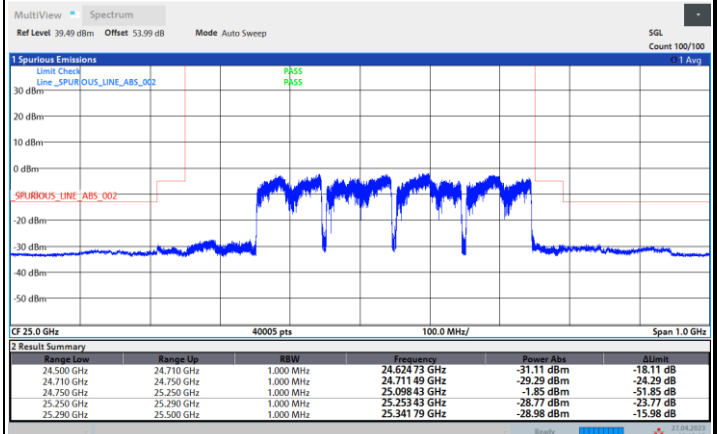


NR Band n258b / 400MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



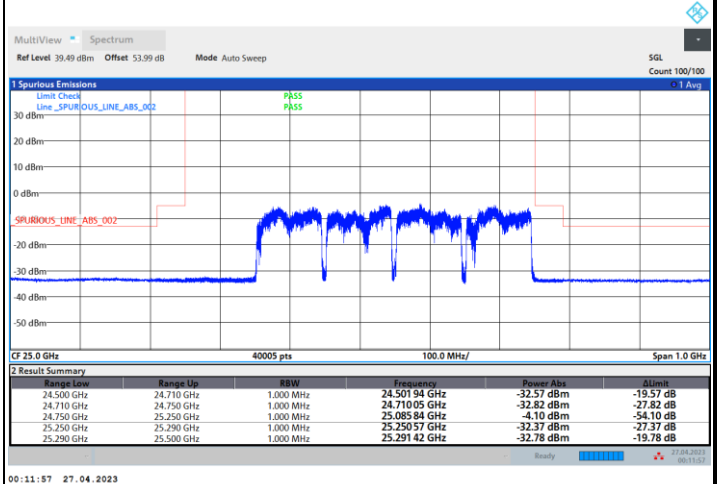
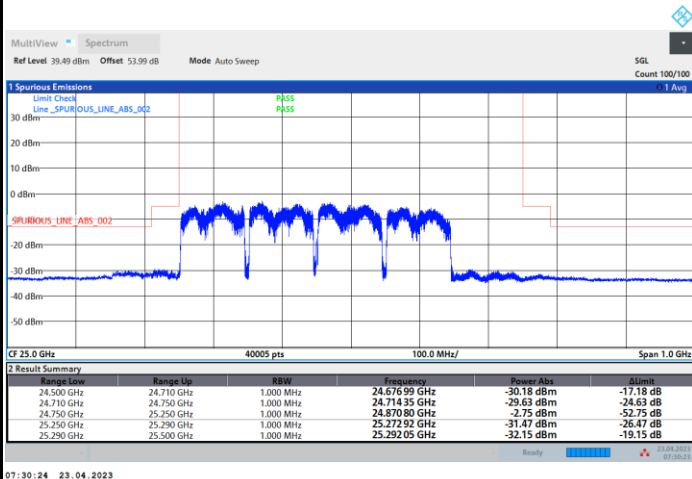


DFT-s-OFDM Module A

NR Band n258b / 400MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

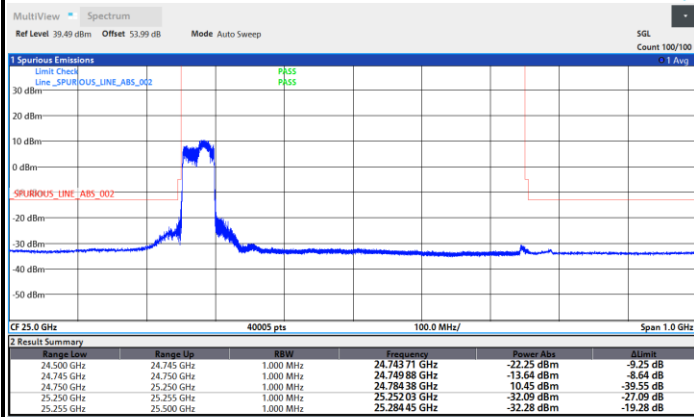




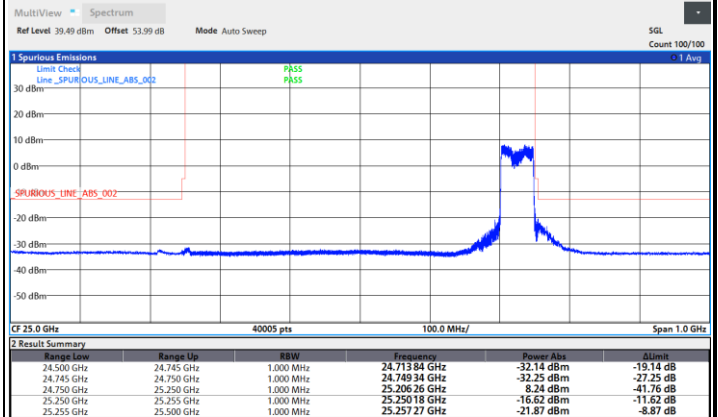
CP-OFDM Module A

NR Band n258b / 50MHz / QPSK

Lowest Band Edge / Full RB

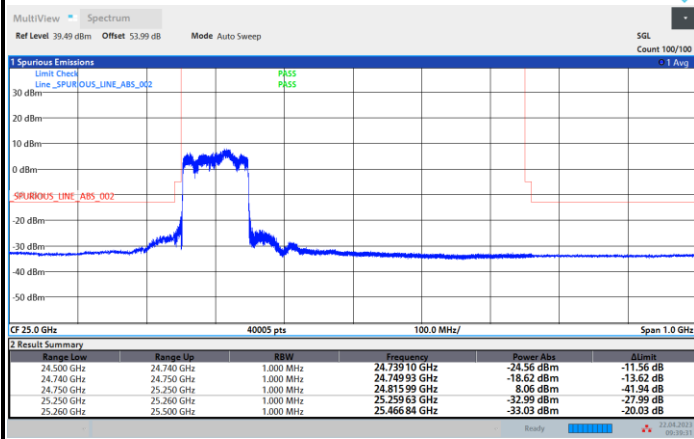


Highest Band Edge / Full RB

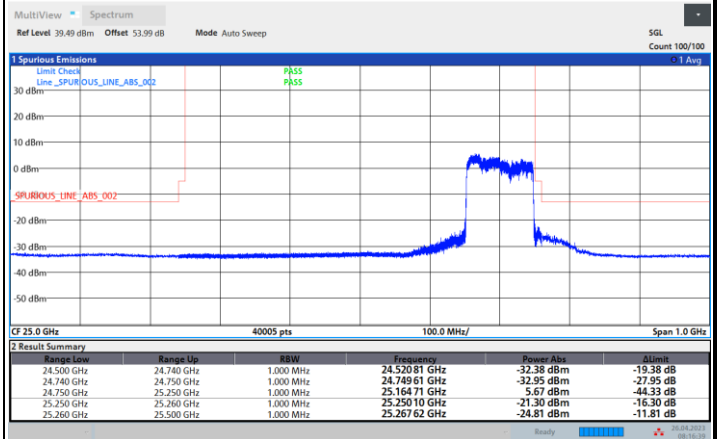


NR Band n258b / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

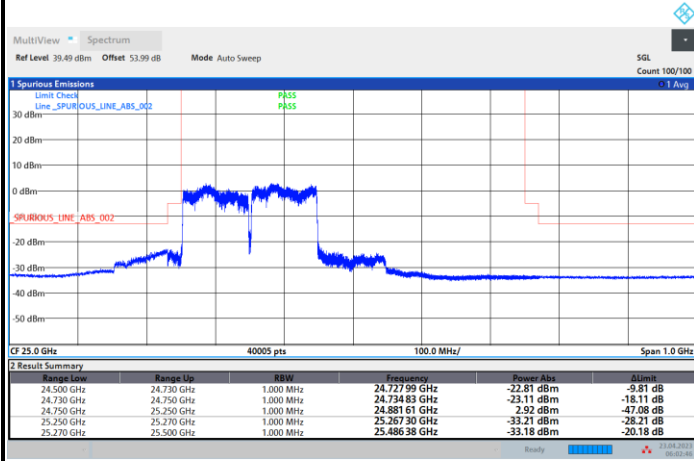




CP-OFDM Module A

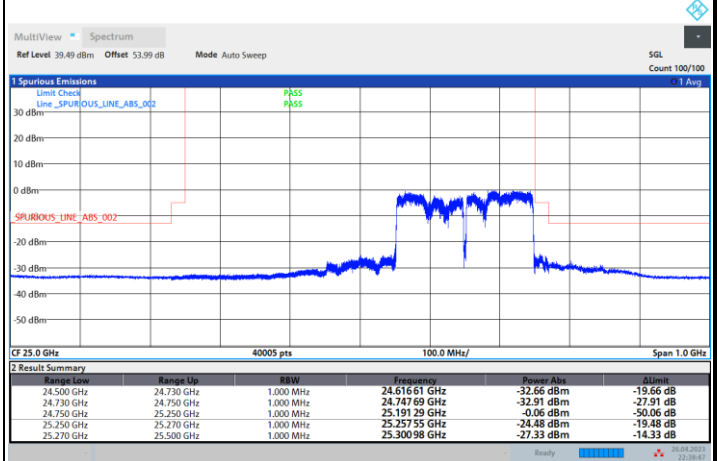
NR Band n258b / 200MHz / QPSK

Lowest Band Edge / Full RB



06:02:47 23.04.2023

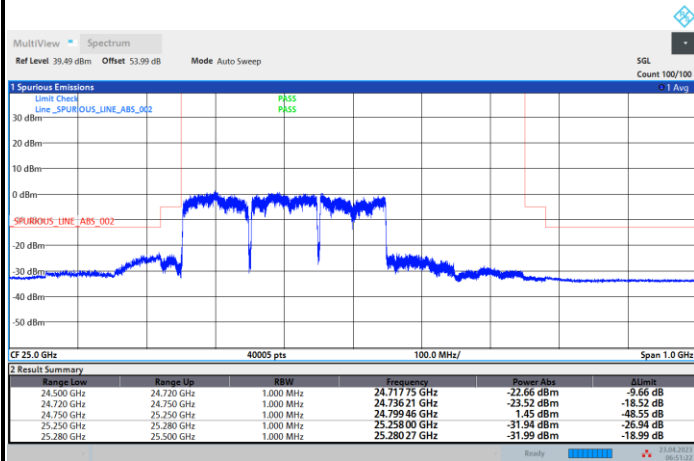
Highest Band Edge / Full RB



22:38:47 26.04.2023

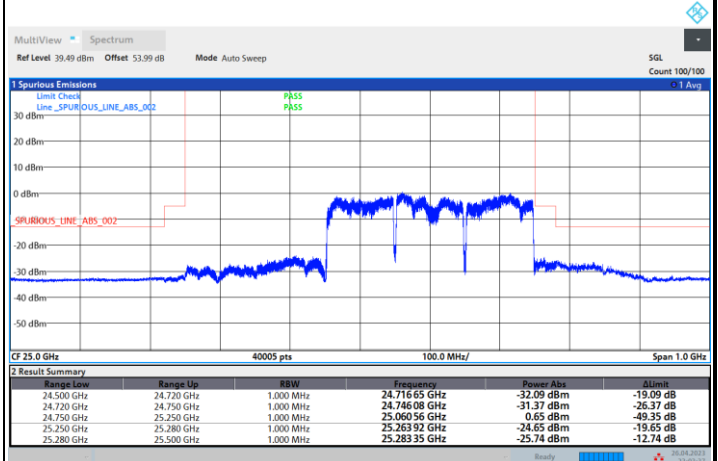
NR Band n258b / 300MHz / QPSK

Lowest Band Edge / Full RB



06:51:23 23.04.2023

Highest Band Edge / Full RB



23:03:38 26.04.2023

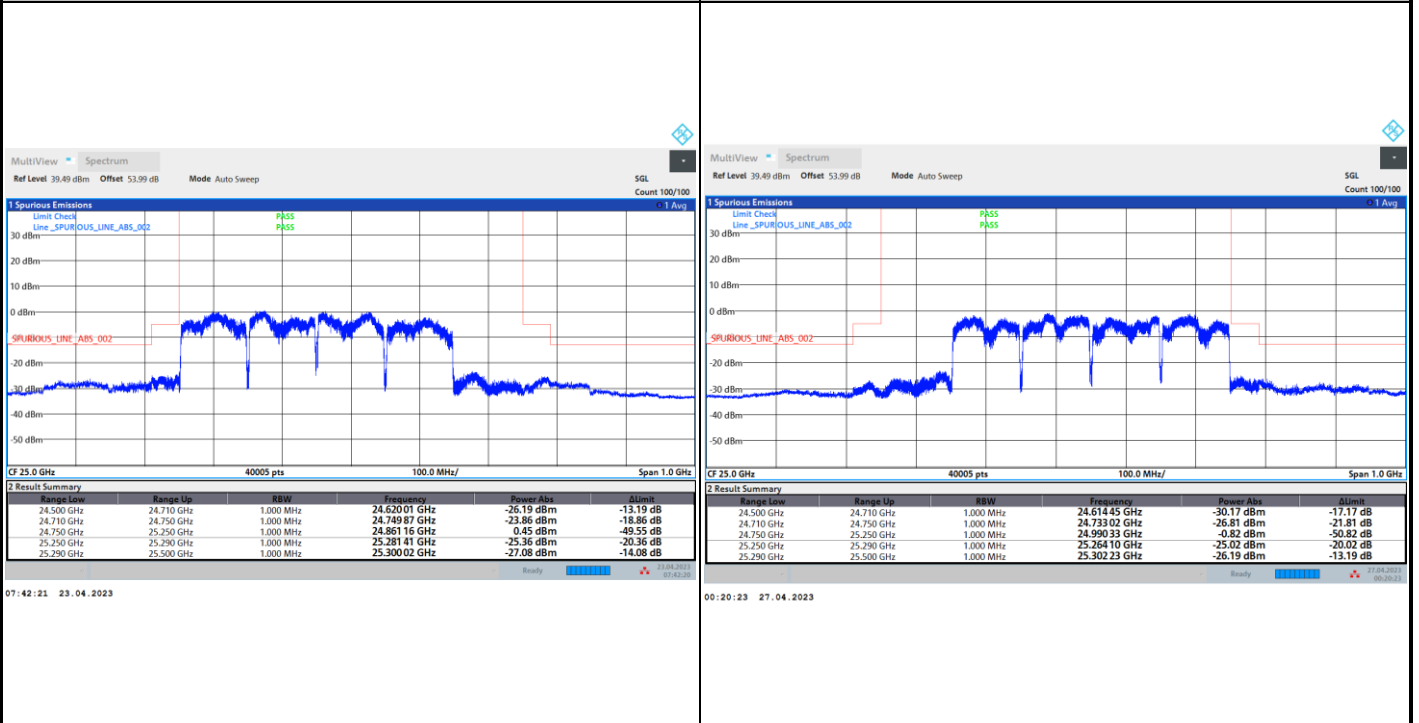


CP-OFDM Module A

NR Band n258b / 400MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

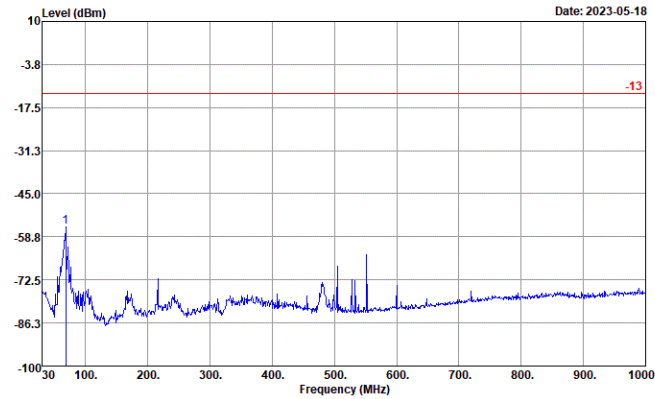




Spurious Emission

NR Band n258b (30MHz-1GHz)

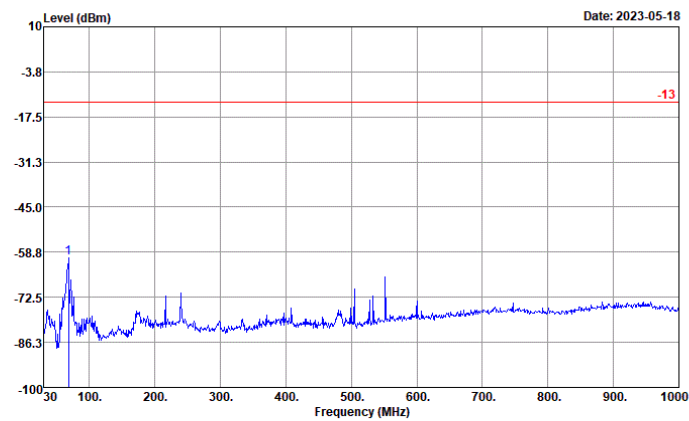
Horizontal



Site : 03CH10-HV
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0208-01
: n258b MA

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	67.83	-55.49	-42.49	-13.00	-50.53

Vertical



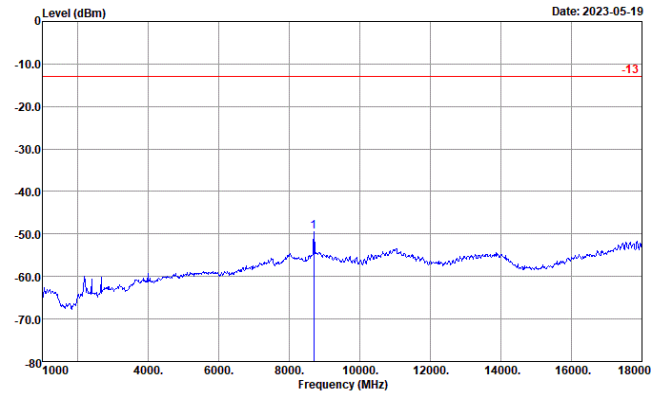
Site : 03CH10-HV
Condition : -13 EIRP_WO VERTICAL
Project : 2D0208-01
: n258b MA

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	67.83	-60.37	-47.37	-13.00	-52.19



NR Band n258b (1GHz-18GHz)

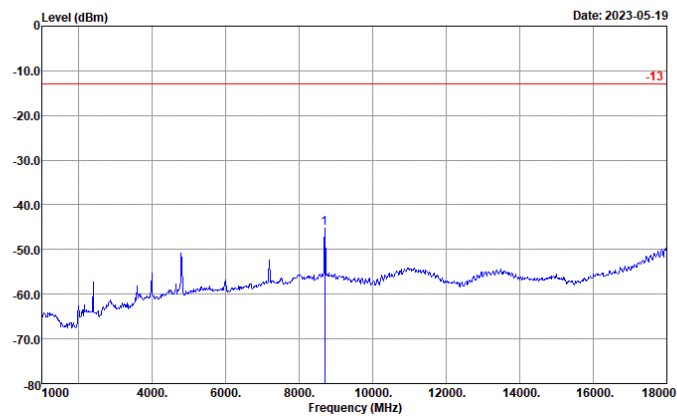
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 2D0208-01
: n258b MA

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	8701.00	-49.36	-36.36	-13.00	-50.01

Vertical



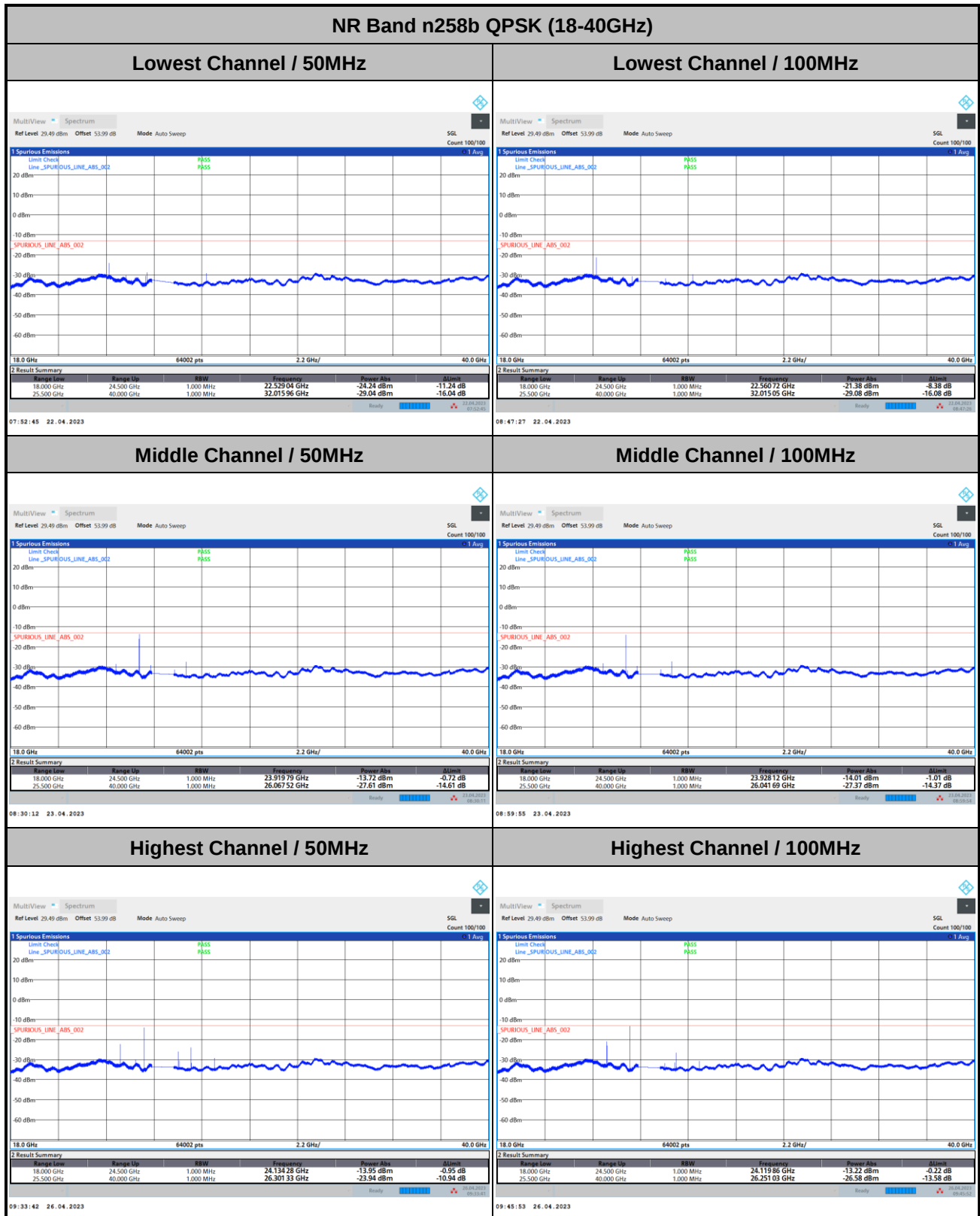
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 2D0208-01
: n258b MA

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBm	dB	dBm	dBm
1	8701.00	-45.17	-32.17	-13.00	-45.46



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

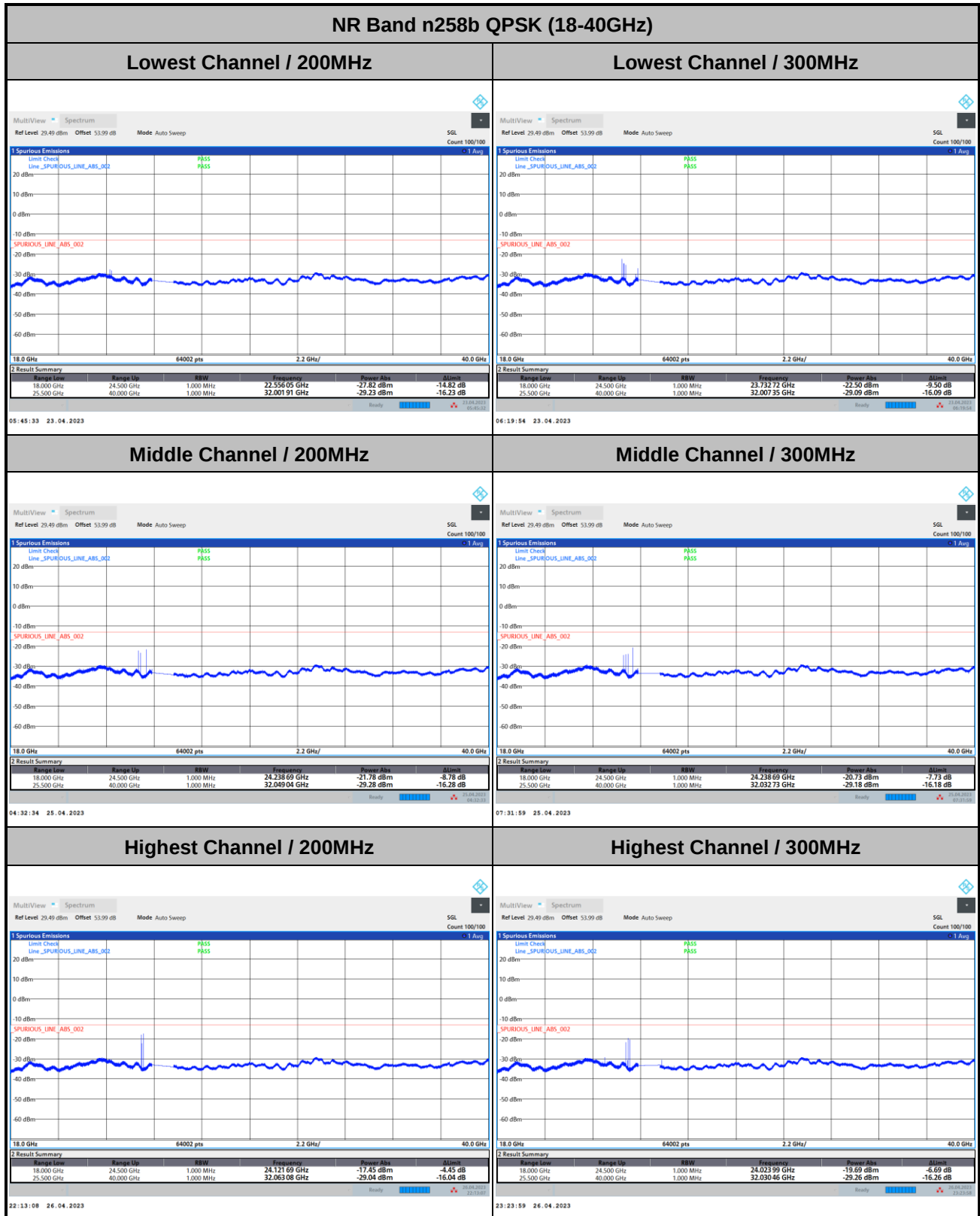
DFT-s-OFDM Module A



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



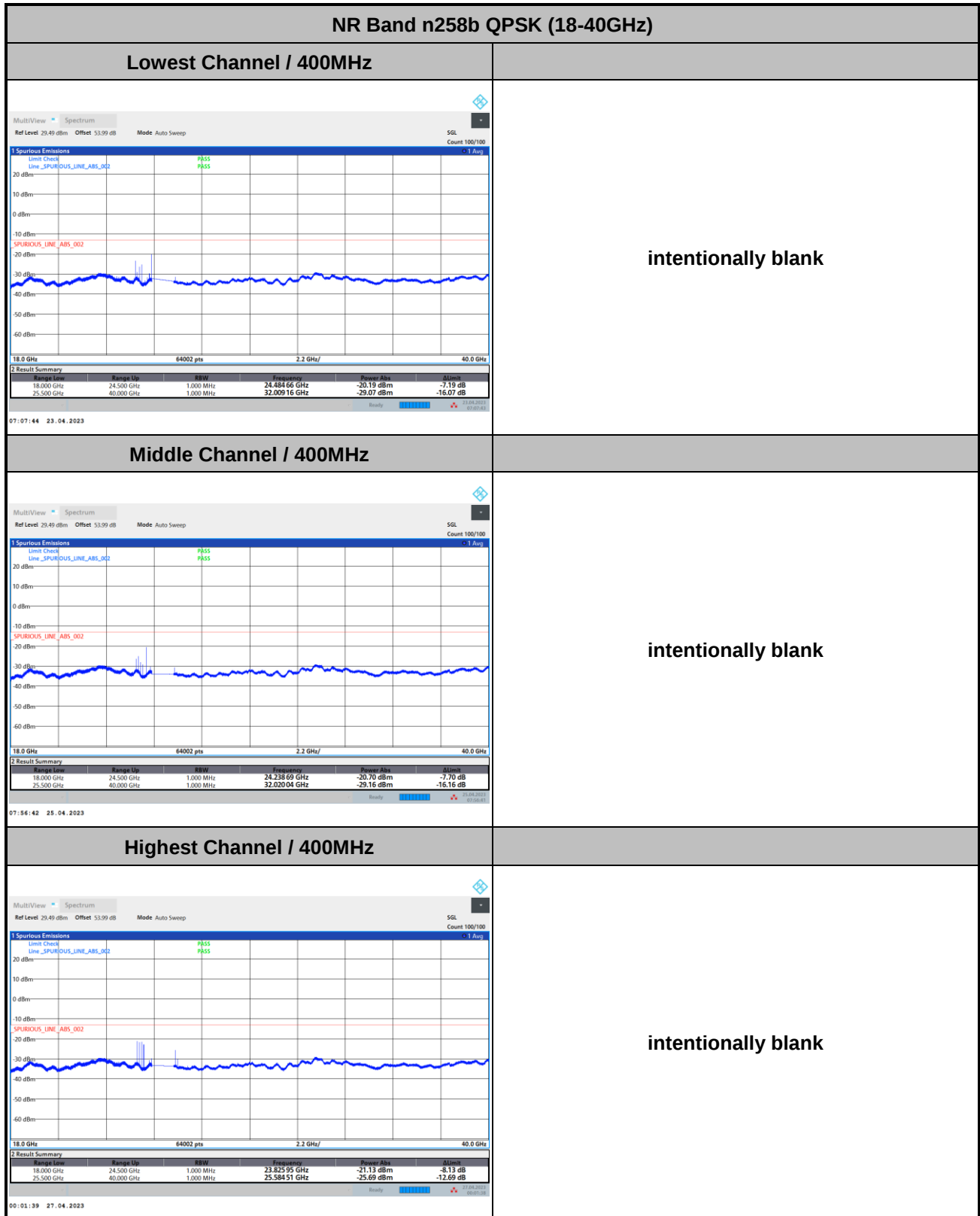
DFT-s-OFDM Module A



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



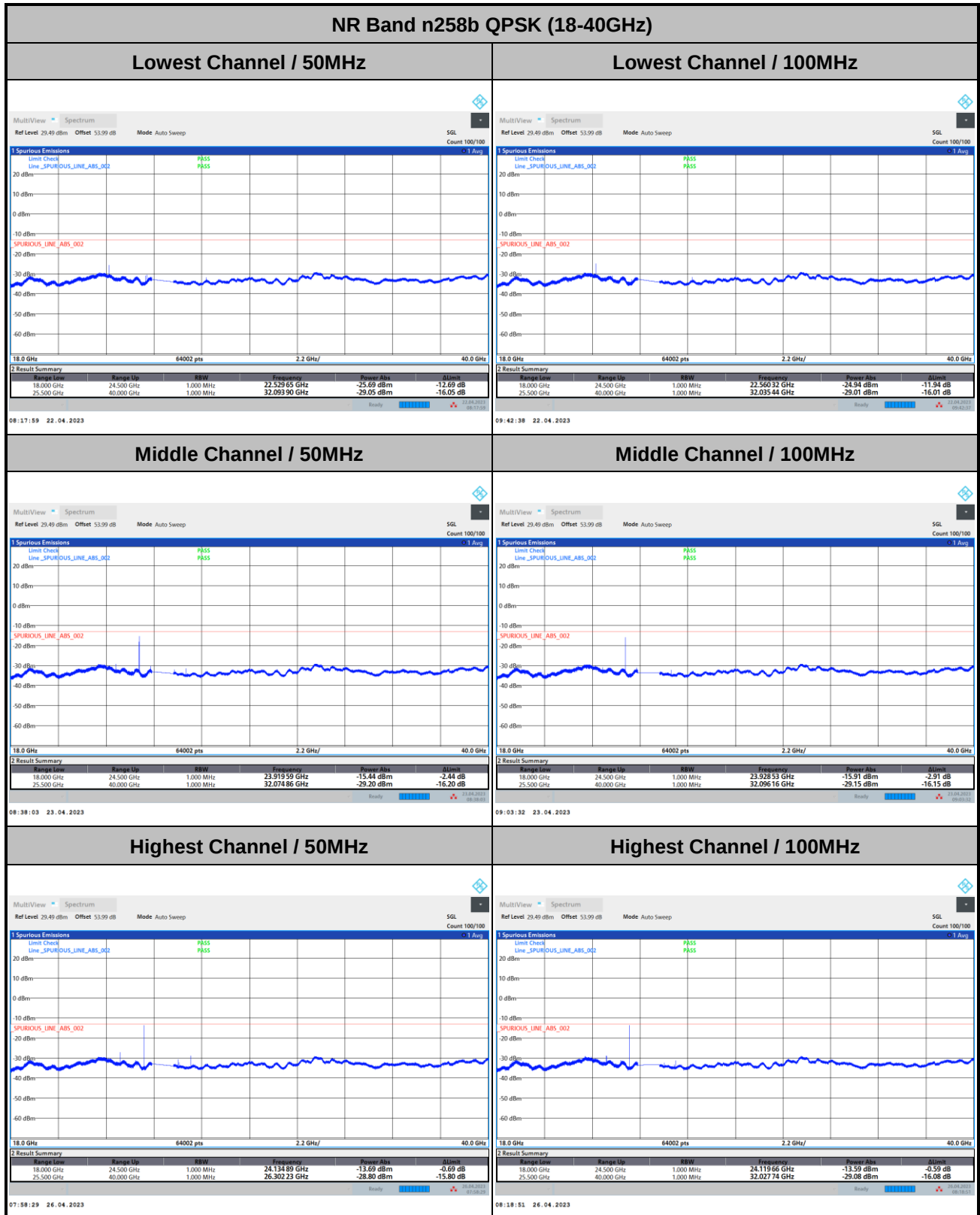
DFT-s-OFDM Module A



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



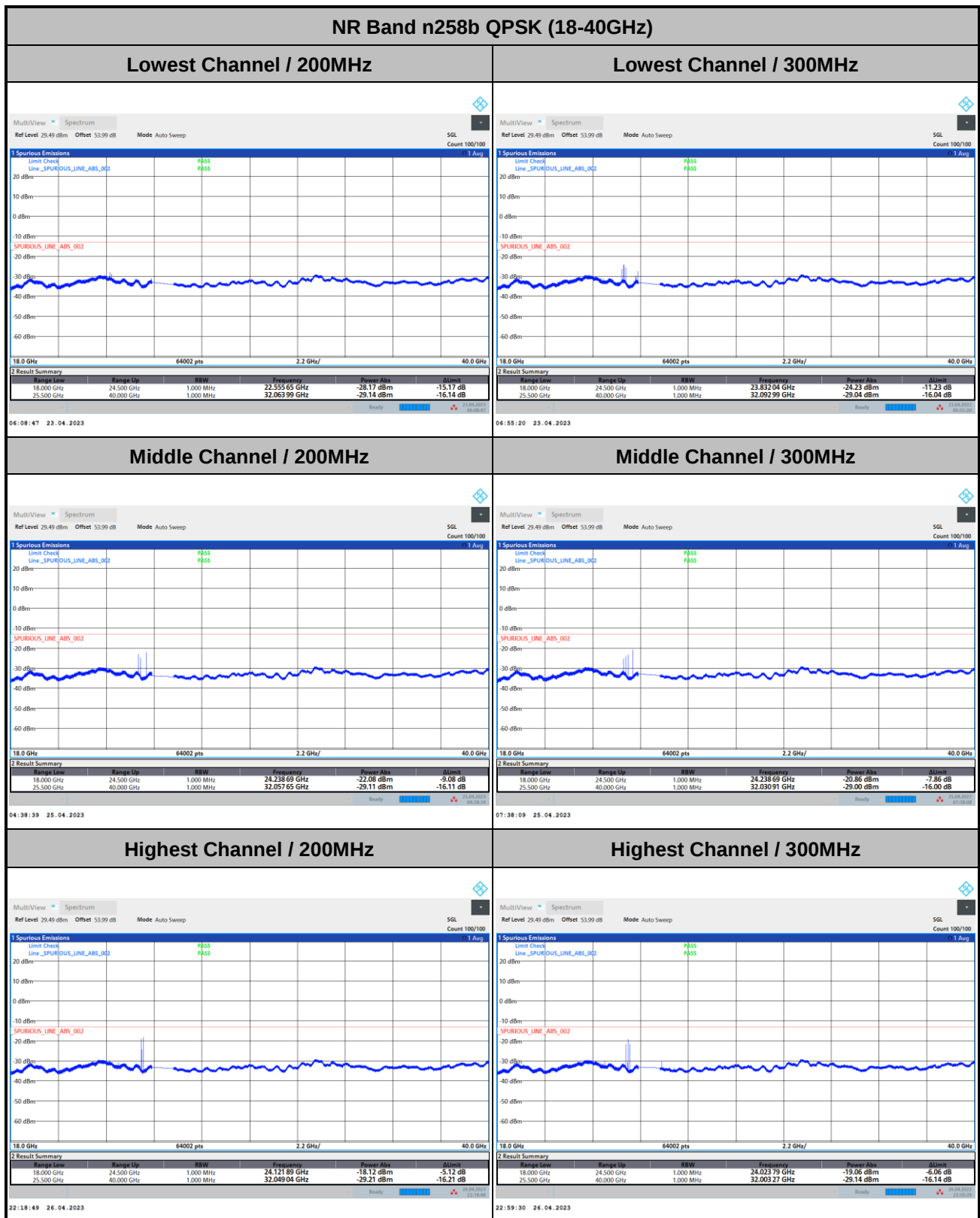
CP-OFDM Module A



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



CP-OFDM Module A



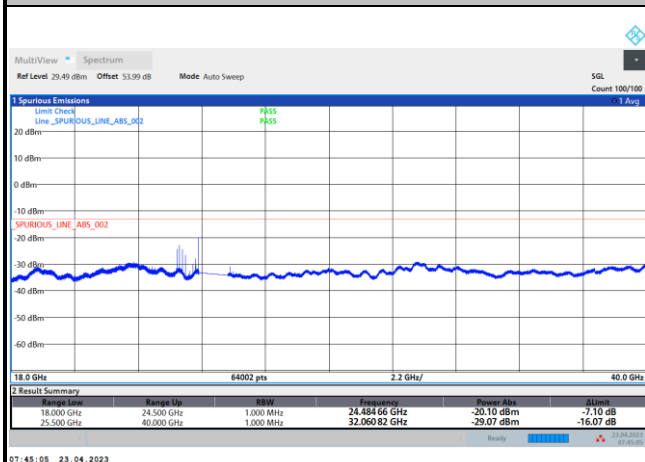
Remark: In band and out of band frequencies are omitted.



CP-OFDM Module A

NR Band n258b QPSK (18-40GHz)

Lowest Channel / 400MHz



intentionally blank

Middle Channel / 400MHz



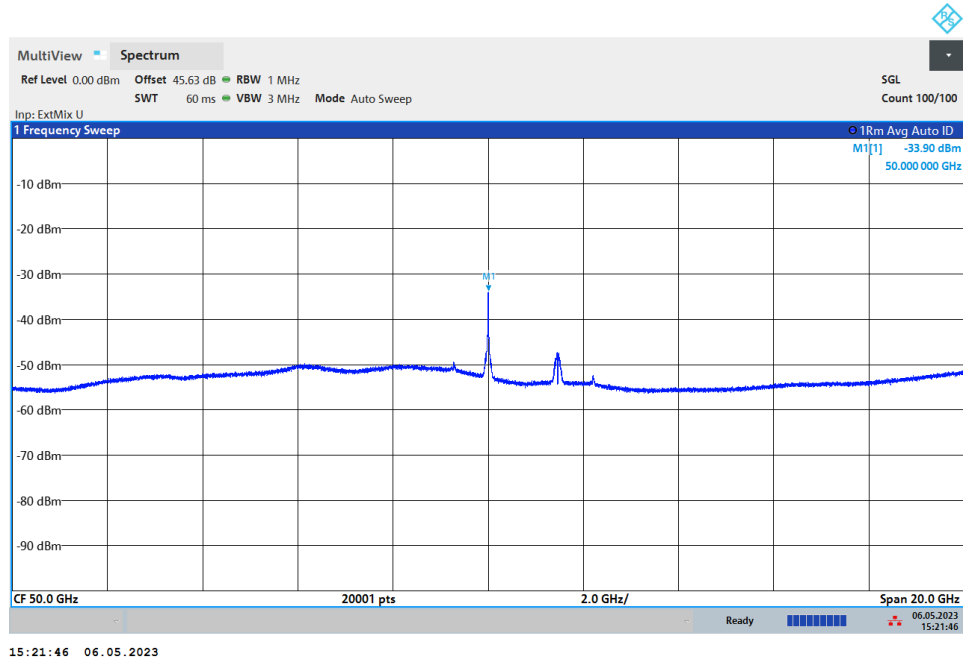
intentionally blank

Highest Channel / 400MHz



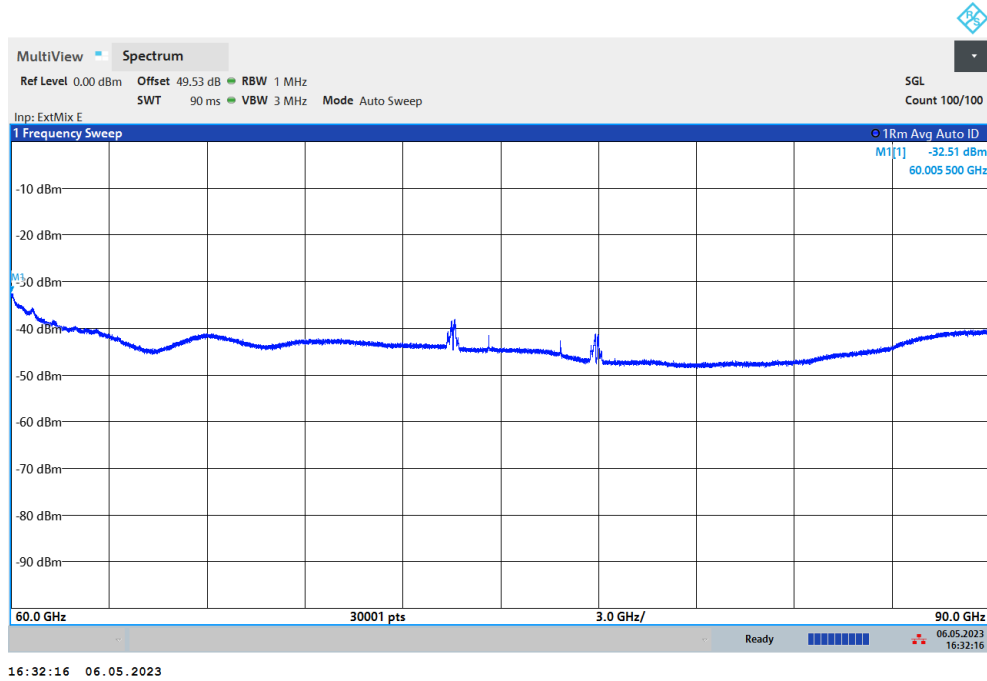
intentionally blank

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

NR Band n258b
(40GHz-60GHz)


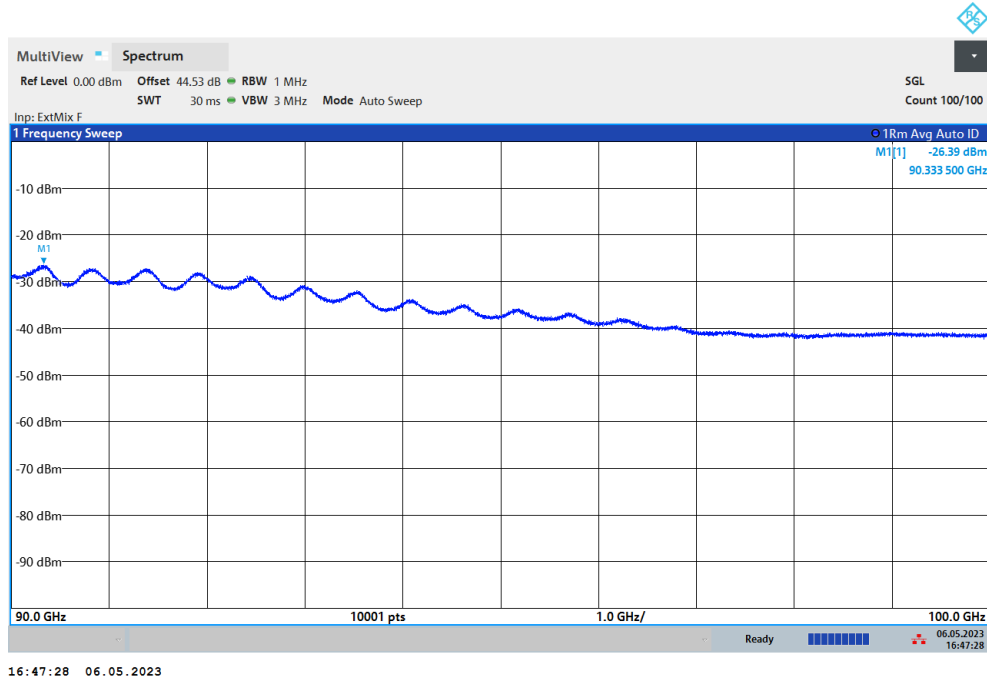
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + \text{Duty Factor}$$

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

NR Band n258b
(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 n258b
(90GHz-100GHz)


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

$$= 47.92 + 0.43 + 107 + 20\log(0.5) - 104.8 = 44.53 \text{ (dB)}$$

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	25.000008	-8.000	0.208	Pass
40	Normal Voltage	25.000002	-20.000	0.519	
30	Normal Voltage	25.000031	-31.000	0.805	
20(Ref.)	Normal Voltage	25	0.000	0.000	
10	Normal Voltage	25.0000529	-52.900	1.374	
0	Normal Voltage	25.0000799	-79.900	2.075	
-10	Normal Voltage	25.0001309	-130.900	3.400	
-20	Normal Voltage	25.0001608	-160.800	4.177	
-30	Normal Voltage	25.0001598	-159.800	4.151	
20	Maximum Voltage	25.0000529	-52.900	1.374	
20	Normal Voltage	25.0000549	-54.900	1.426	
20	Battery End Point	25.0000539	-53.900	1.400	

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 B AGH+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module B NR Band n258b : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.97	46.13	45.84	91.10	91.16	91.10	190.32	190.31	190.28
Middle CH	45.92	45.84	45.90	91.26	91.21	91.24	190.07	190.35	190.39
Highest CH	46.02	45.94	45.98	91.22	90.85	90.93	190.25	190.22	190.20

Mode	DFT-s-OFDM Module B NR Band n258b : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	289.94	289.28	289.51	388.26	388.48	388.10
Middle CH	288.78	288.63	288.78	388.74	388.05	390.25
Highest CH	289.39	289.45	289.29	388.55	388.09	388.83

Mode	CP-OFDM Module B NR Band n258b : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	45.92	94.13	193.83
Middle CH	45.93	94.05	193.39
Highest CH	46.12	93.91	193.13

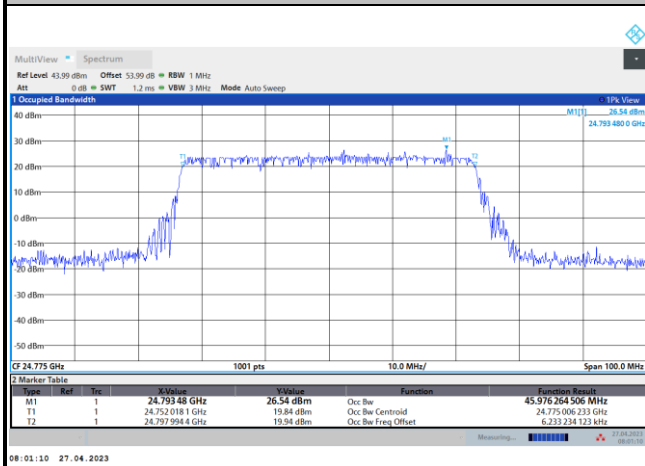
Mode	CP-OFDM Module B NR Band n258b : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	293.72	393.92
Middle CH	291.34	391.68
Highest CH	292.64	391.68



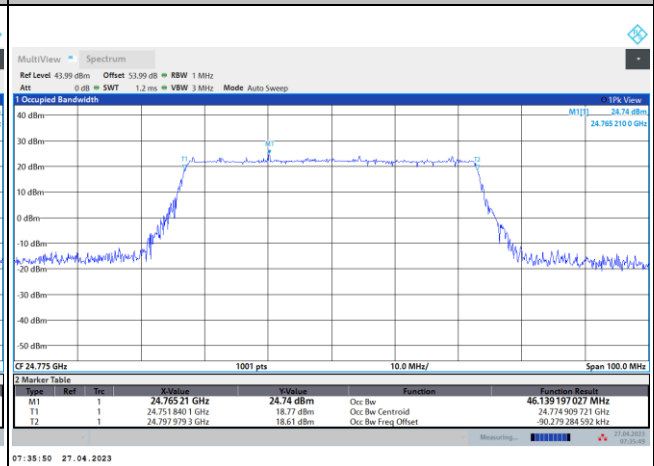
DFT-s-OFDM Module B

NR Band n258b

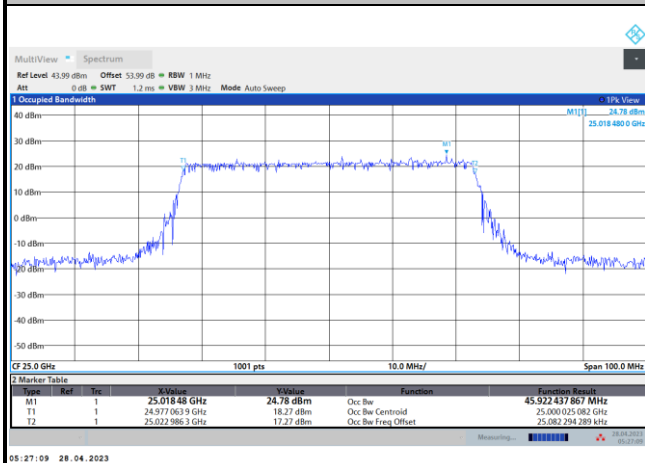
Lowest Channel / 50MHz / QPSK



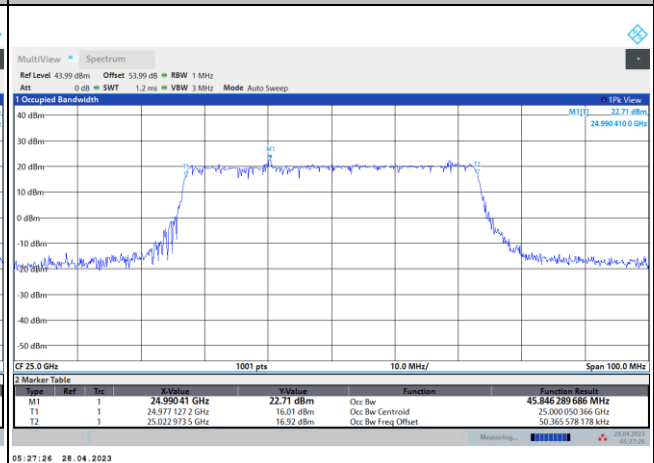
Lowest Channel / 50MHz / 16QAM



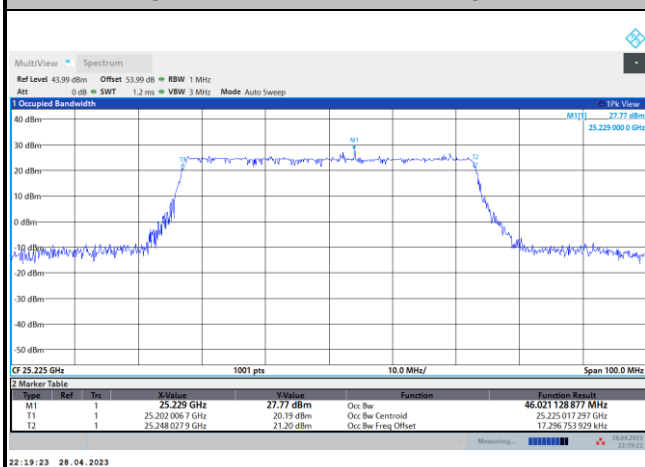
Middle Channel / 50MHz / QPSK



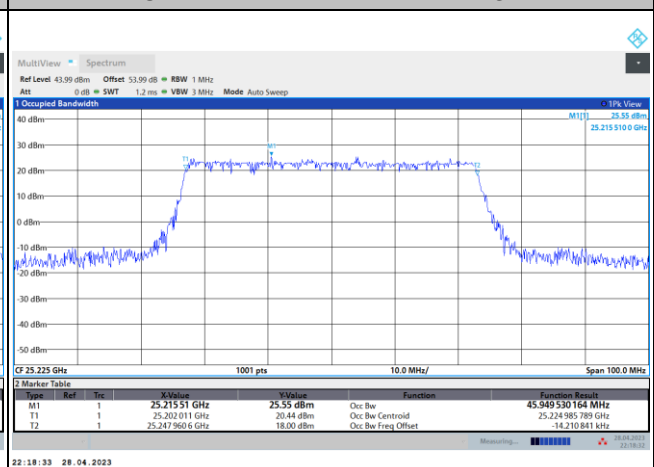
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

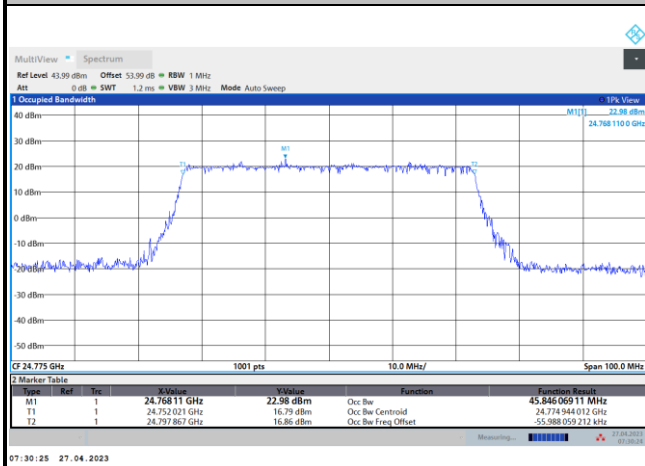




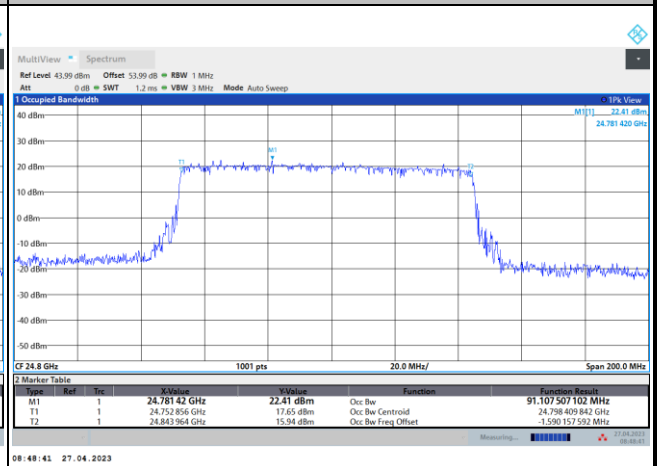
DFT-s-OFDM Module B

NR Band n258b

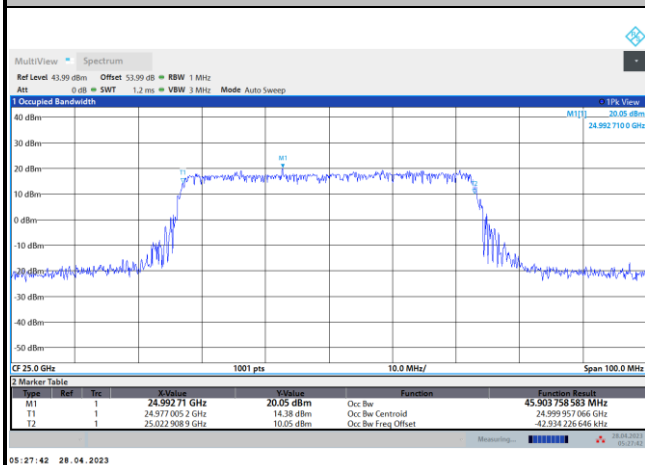
Lowest Channel / 50MHz / 64QAM



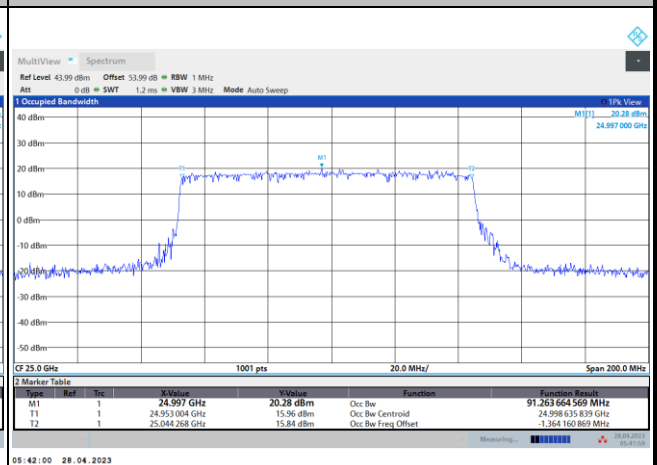
Lowest Channel / 100MHz / QPSK



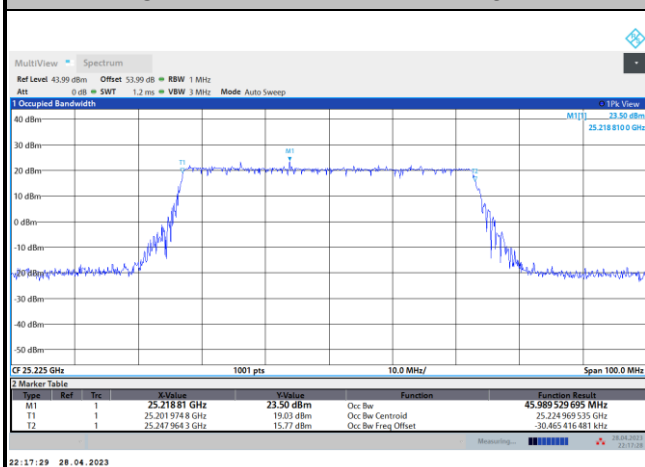
Middle Channel / 50MHz / 64QAM



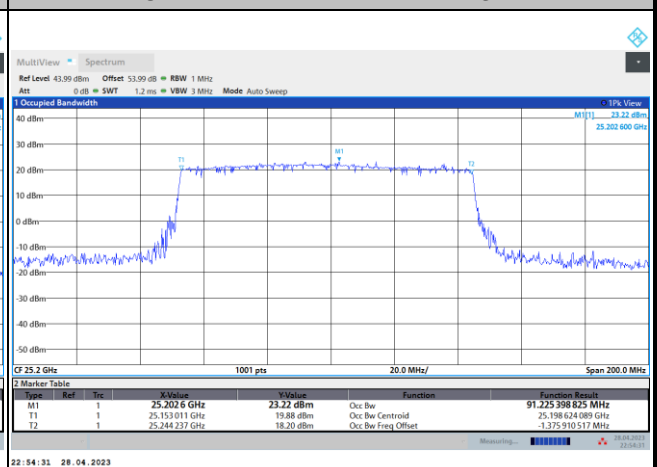
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

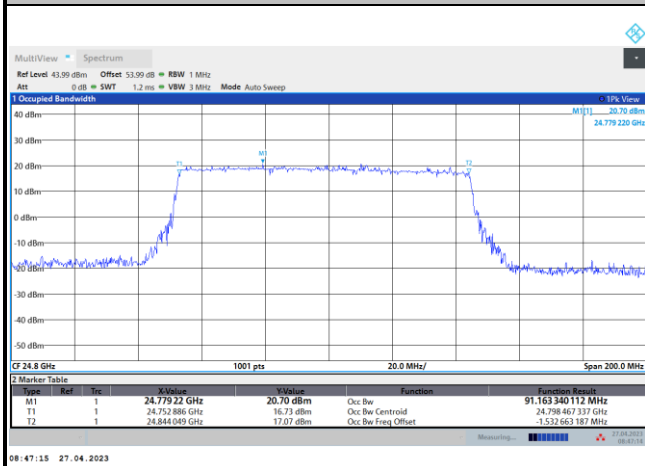




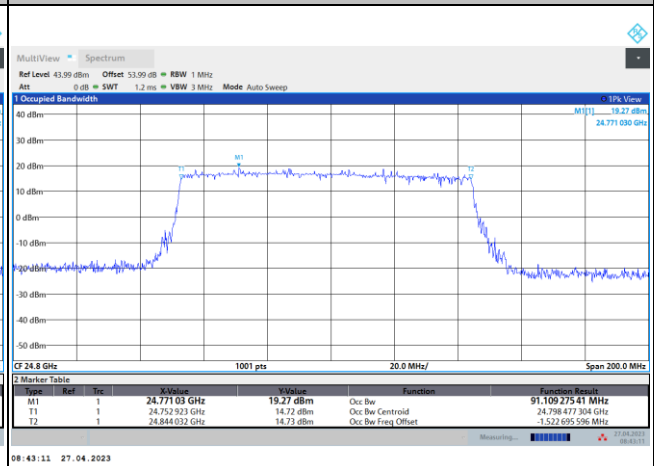
DFT-s-OFDM Module B

NR Band n258b

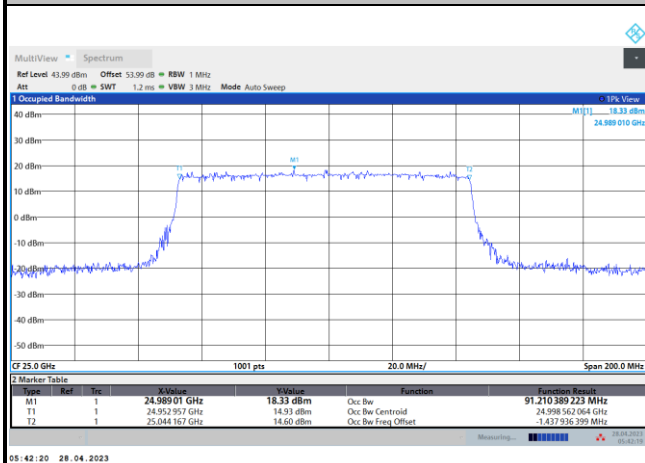
Lowest Channel / 100MHz / 16QAM



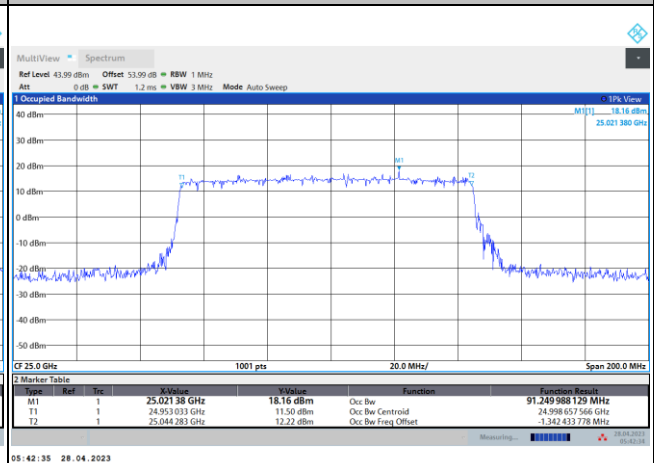
Lowest Channel / 100MHz / 64QAM



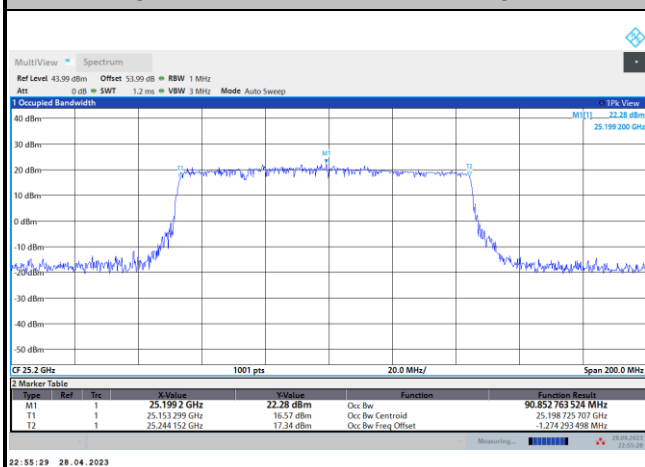
Middle Channel / 100MHz / 16QAM



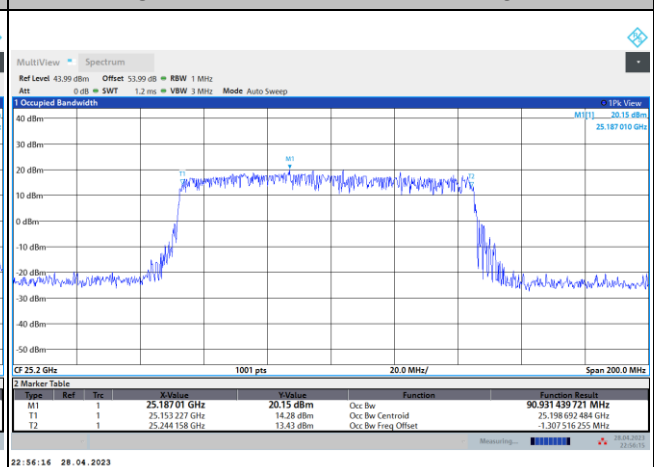
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM





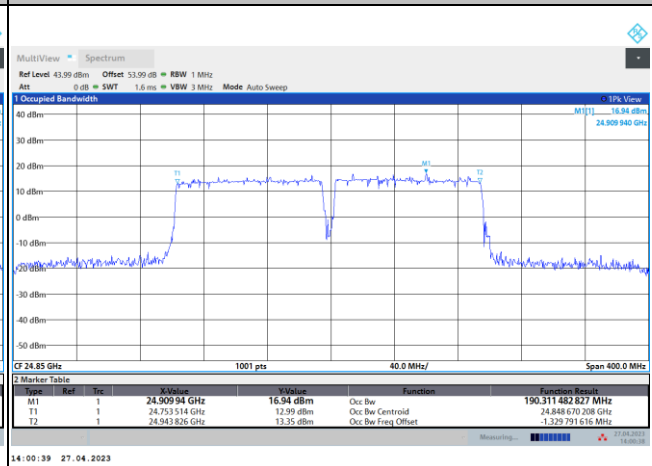
DFT-s-OFDM Module B

NR Band n258b

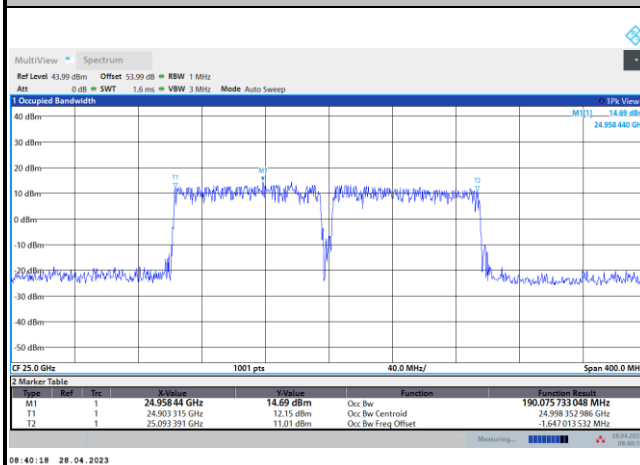
Lowest Channel / 200MHz / QPSK



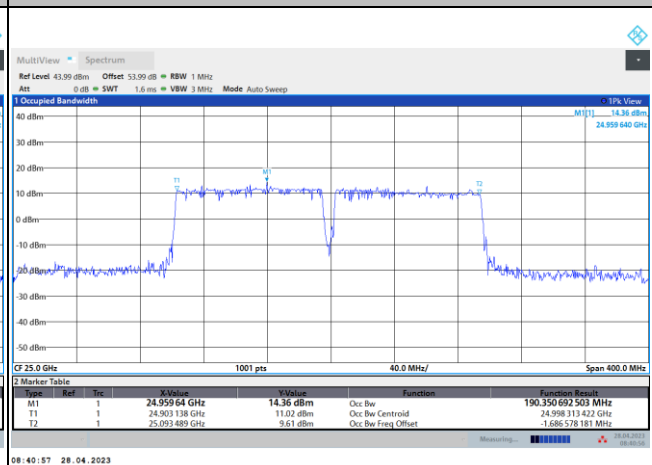
Lowest Channel / 200MHz / 16QAM



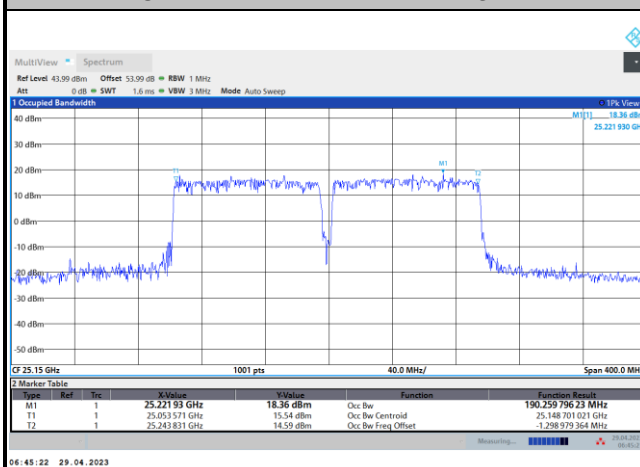
Middle Channel / 200MHz / QPSK



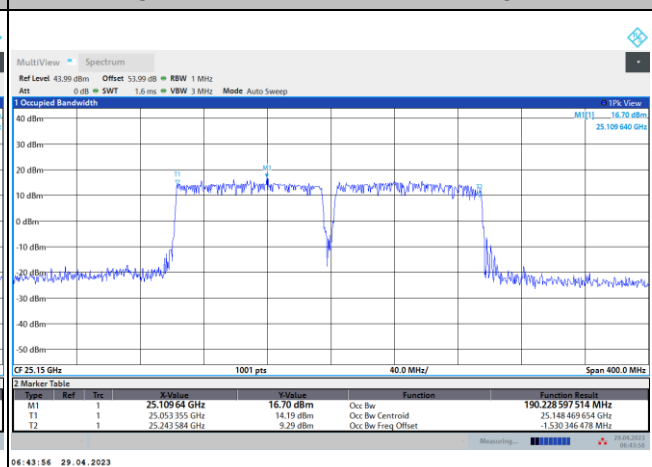
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

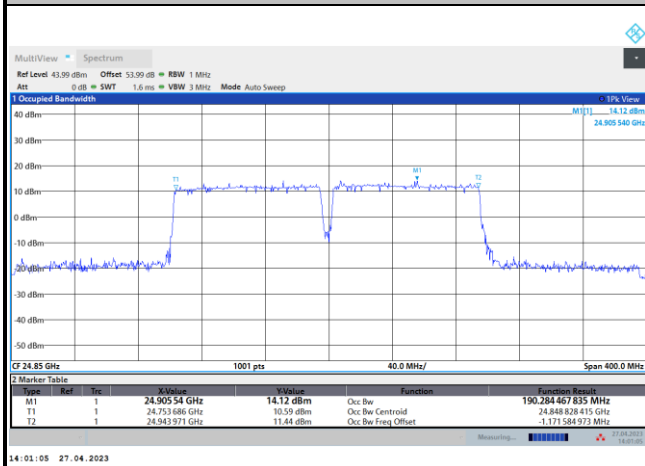




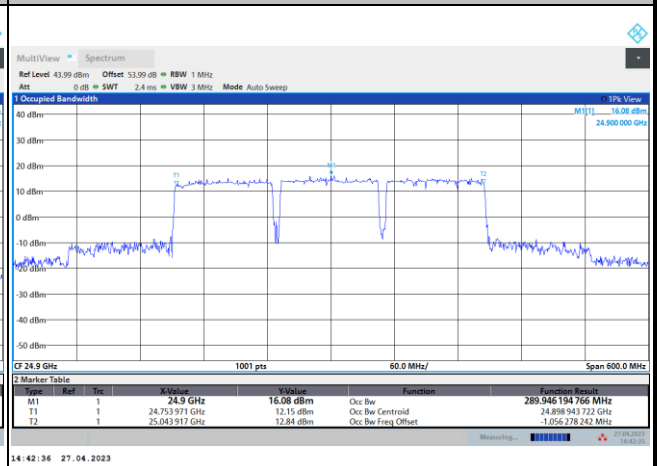
DFT-s-OFDM Module B

NR Band n258b

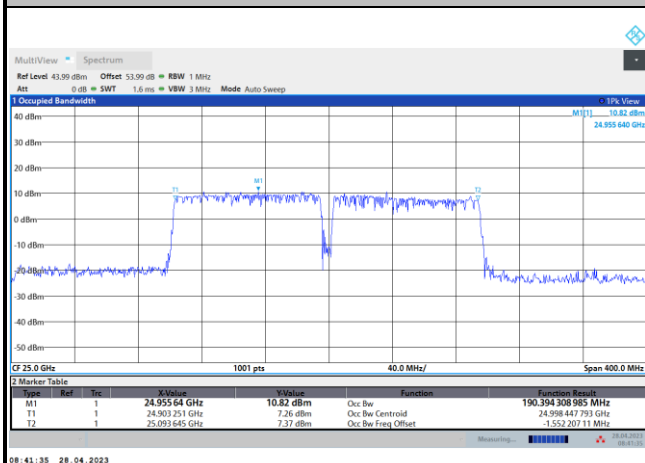
Lowest Channel / 200MHz / 64QAM



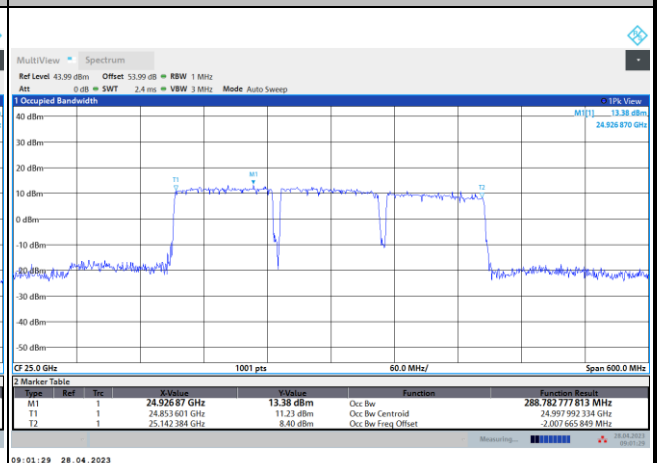
Lowest Channel / 300MHz / QPSK



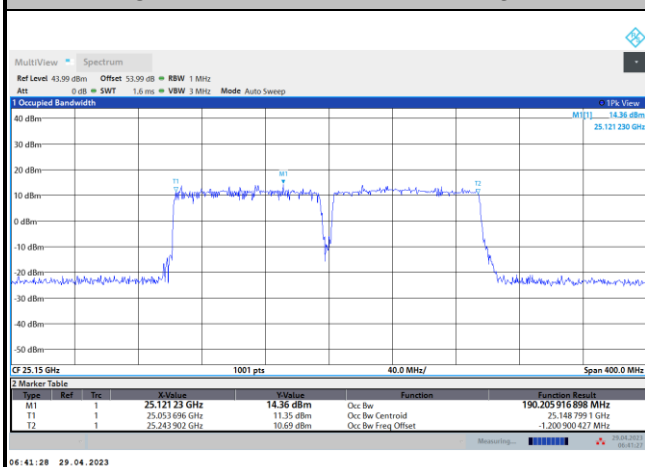
Middle Channel / 200MHz / 64QAM



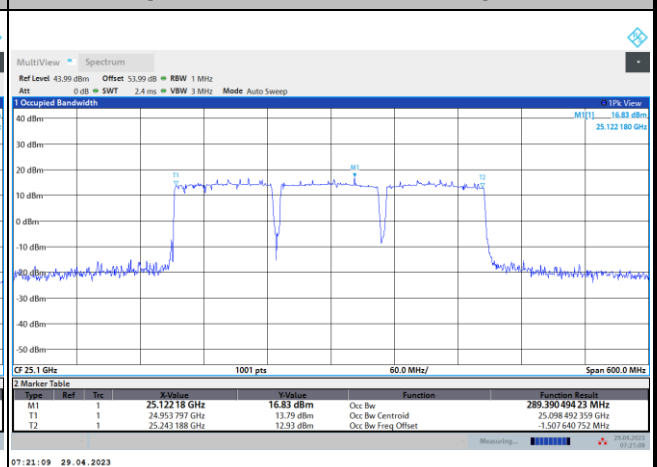
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

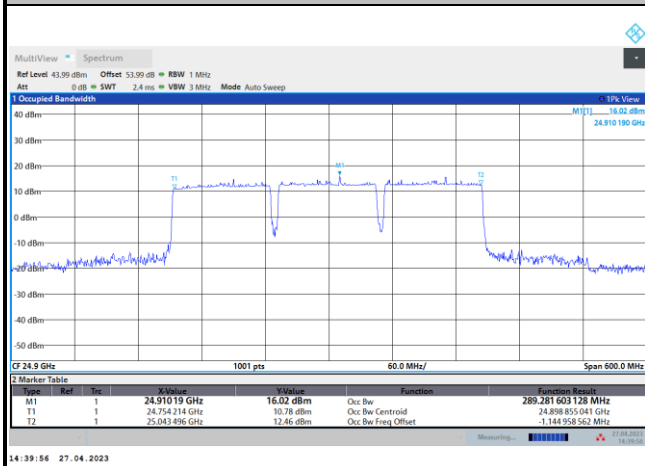




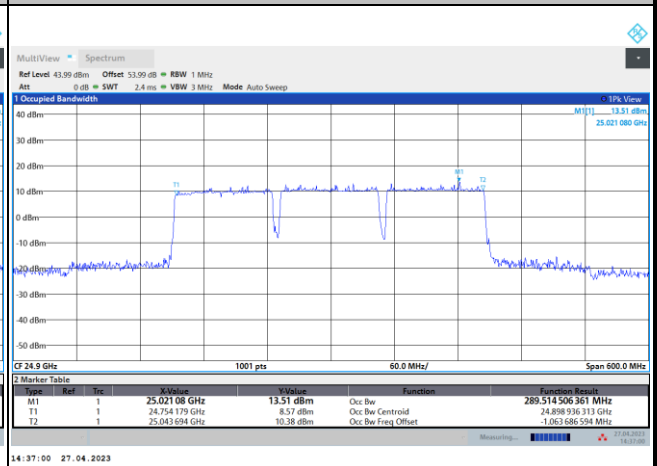
DFT-s-OFDM Module B

NR Band n258b

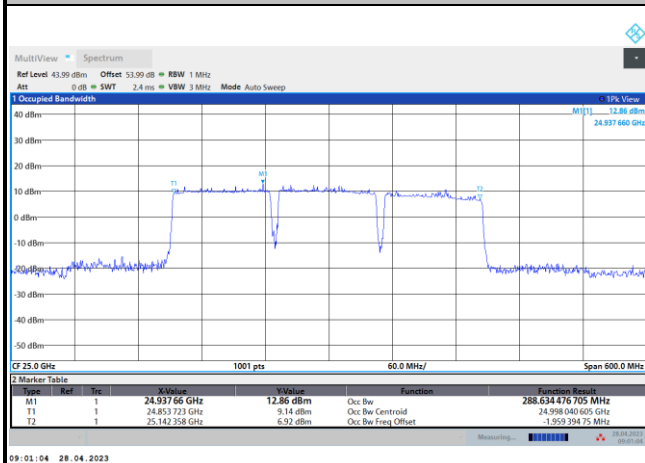
Lowest Channel / 300MHz / 16QAM



Lowest Channel / 300MHz / 64QAM



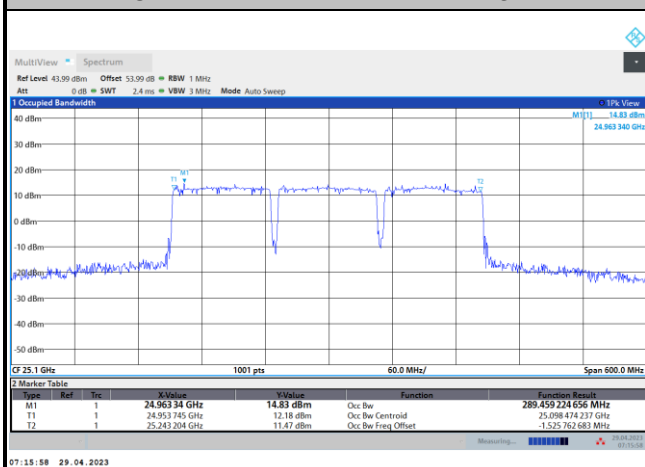
Middle Channel / 300MHz / 16QAM



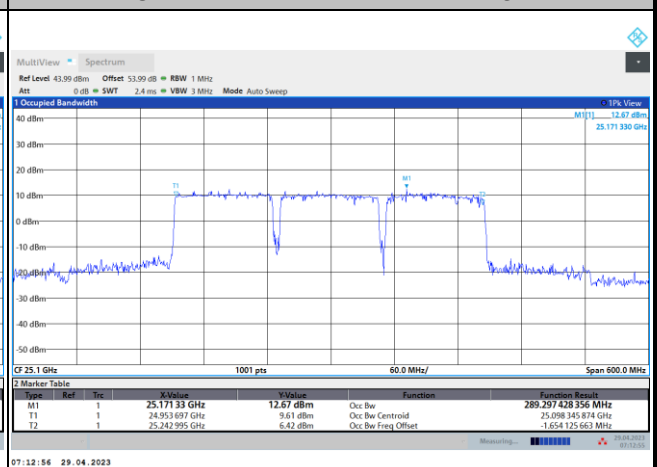
Middle Channel / 300MHz / 64QAM



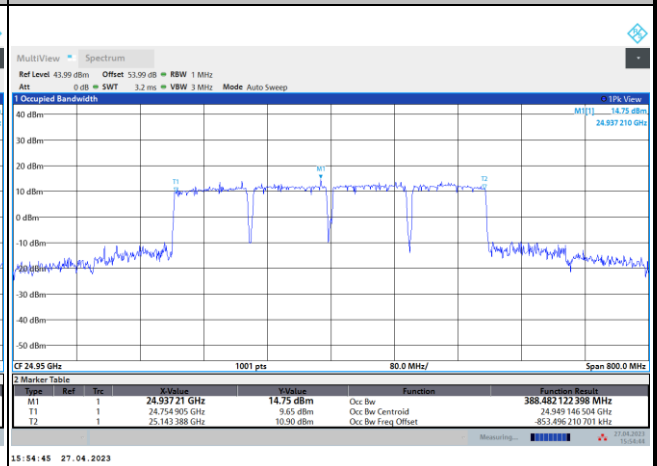
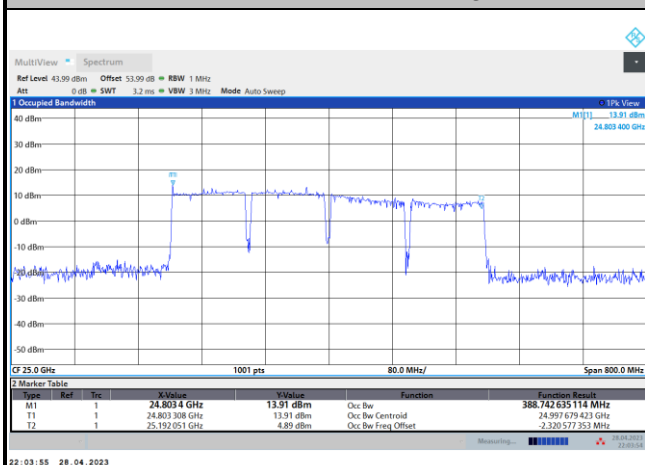
Highest Channel / 300MHz / 16QAM

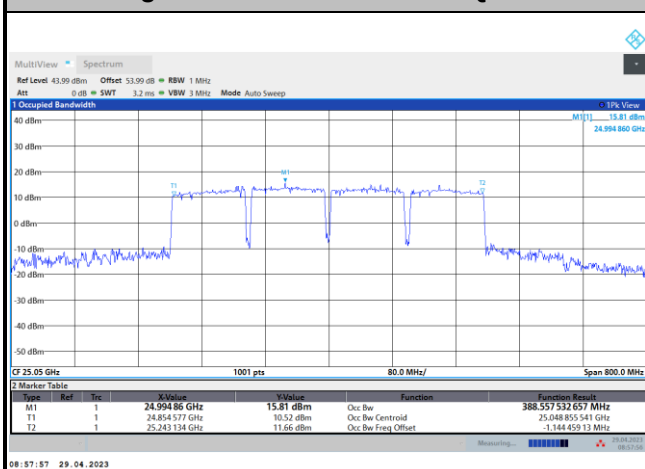
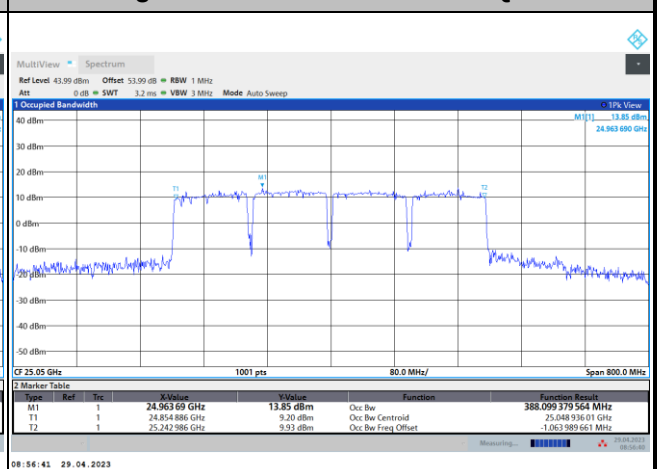


Highest Channel / 300MHz / 64QAM



DFT-s-OFDM Module B
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




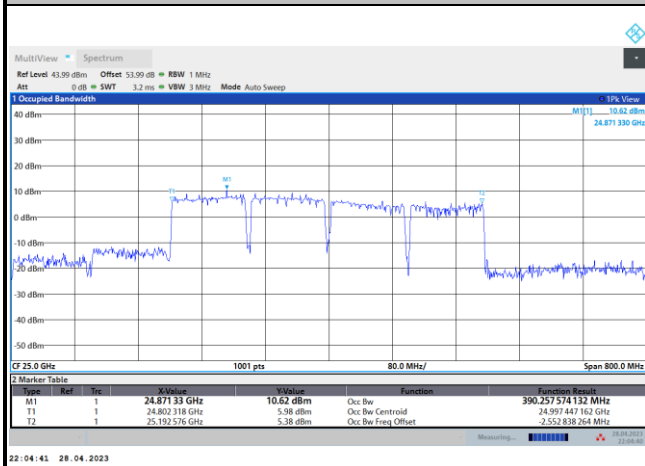
DFT-s-OFDM Module B

NR Band n258b

Lowest Channel / 400MHz / 64QAM



Middle Channel / 400MHz / 64QAM



Highest Channel / 400MHz / 64QAM

