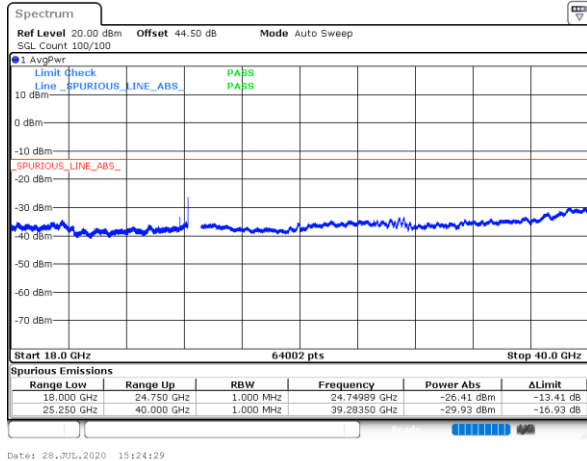




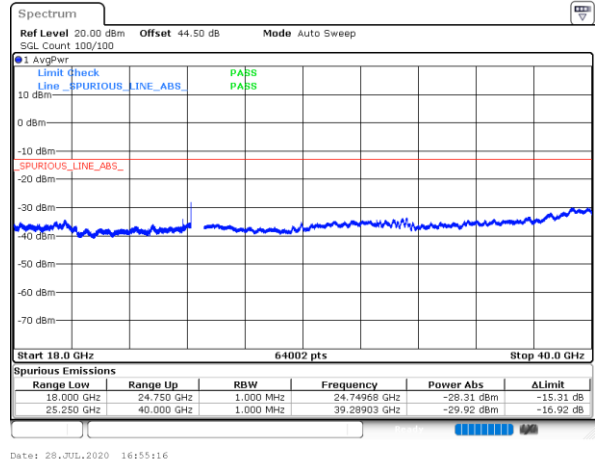
CP-OFDM Module 1

NR Band n258bQPSK (18-40GHz)

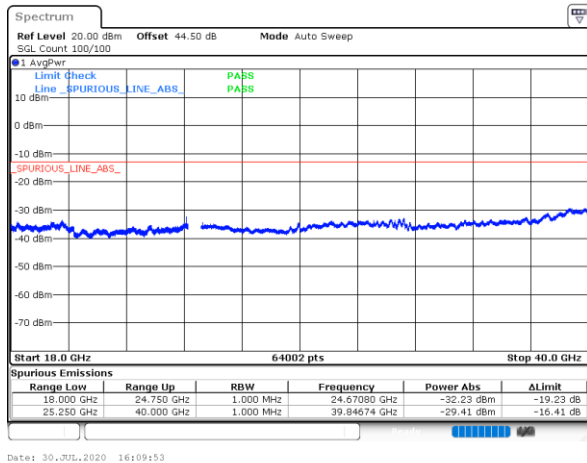
Lowest Channel / 50MHz



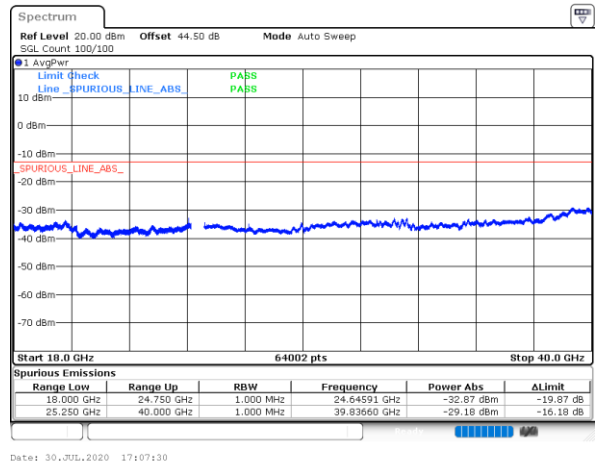
Lowest Channel / 100MHz



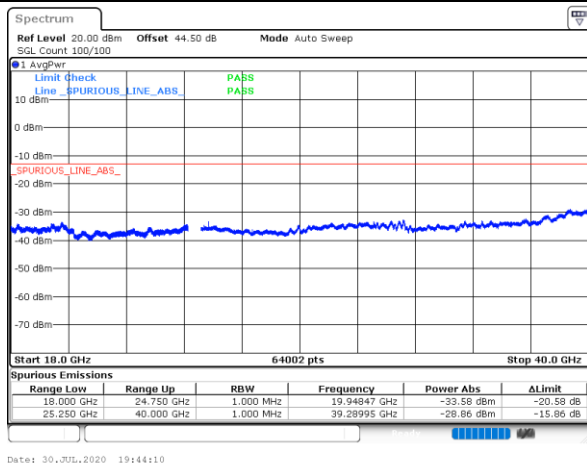
Middle Channel / 50MHz



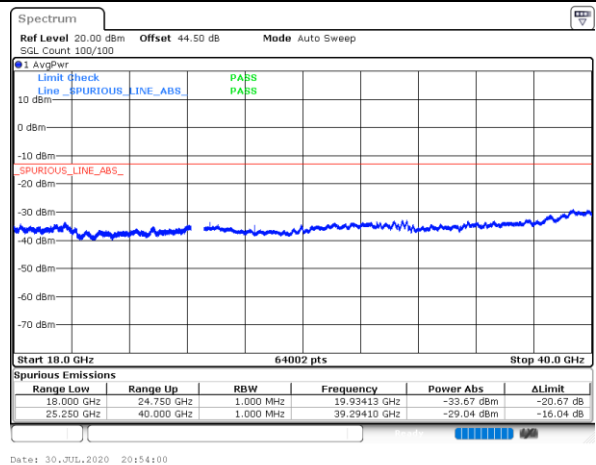
Middle Channel / 100MHz



Highest Channel / 50MHz

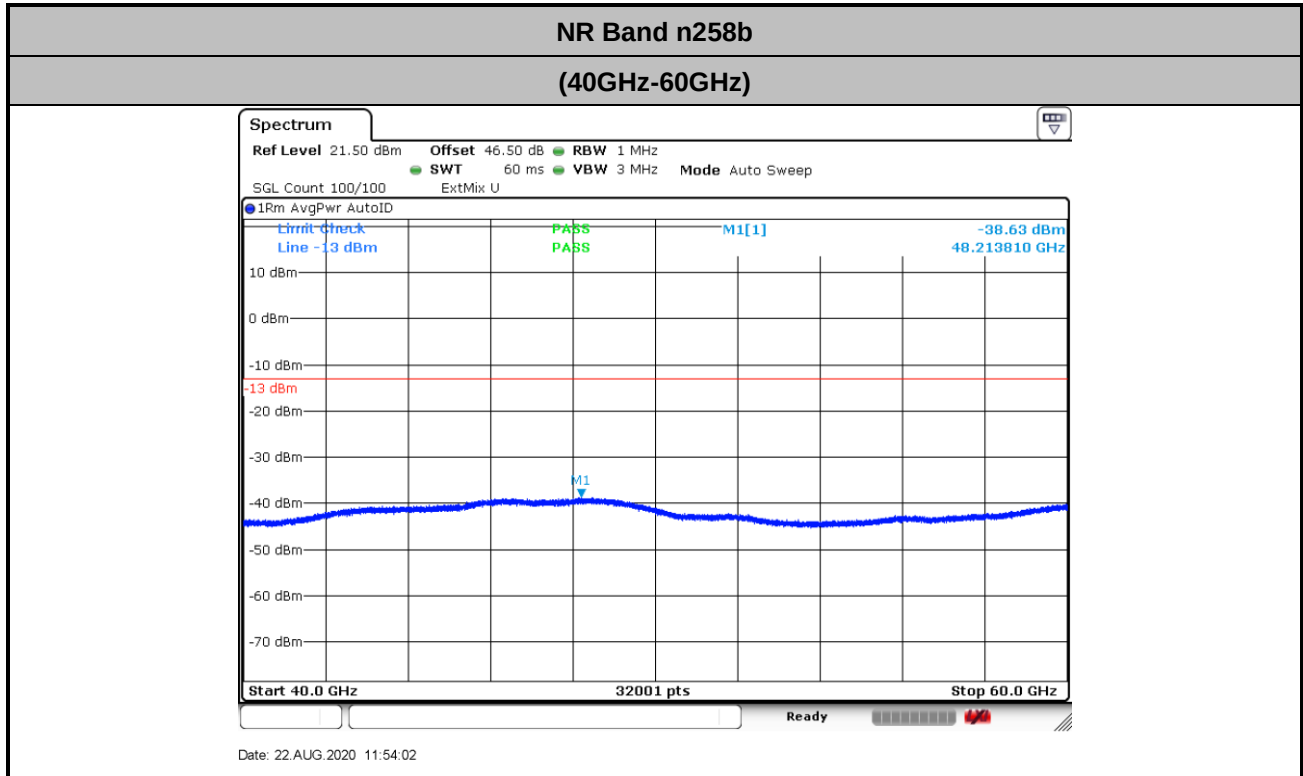


Highest Channel / 100MHz

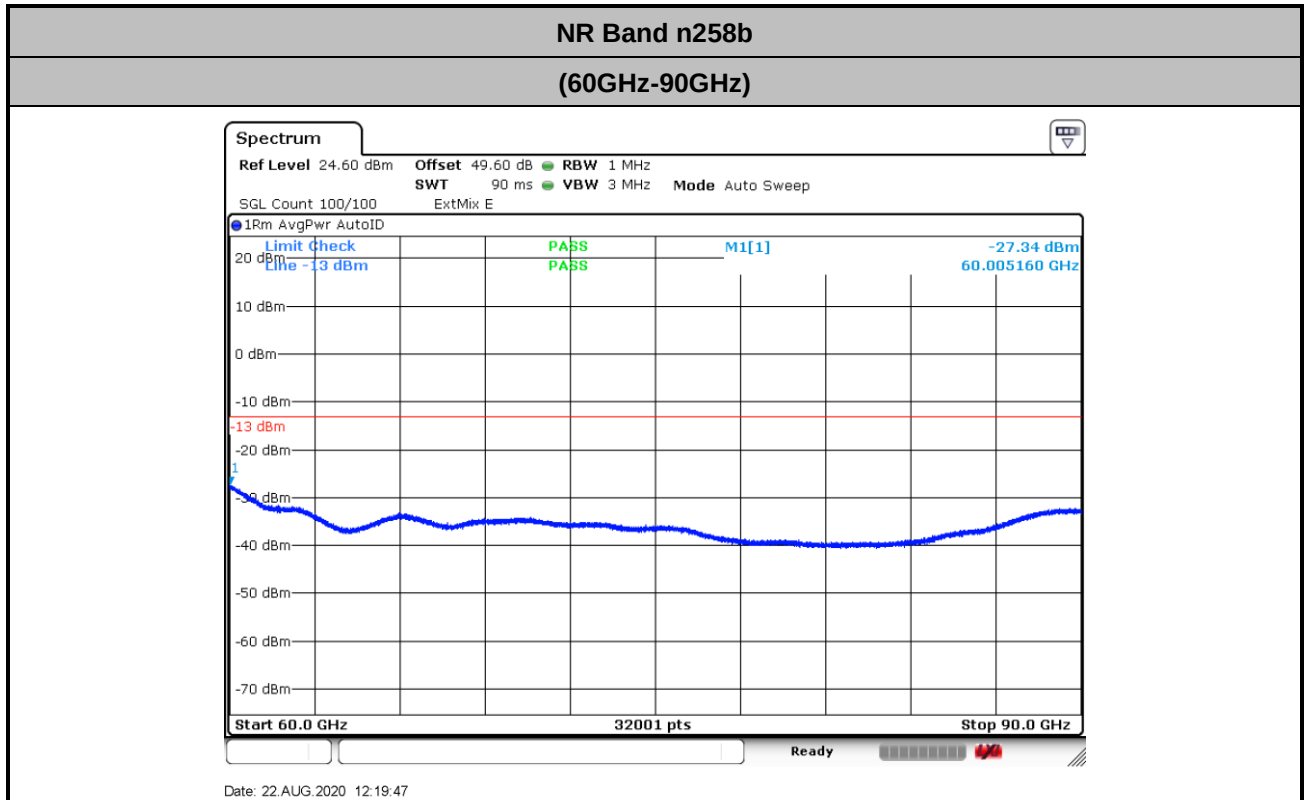




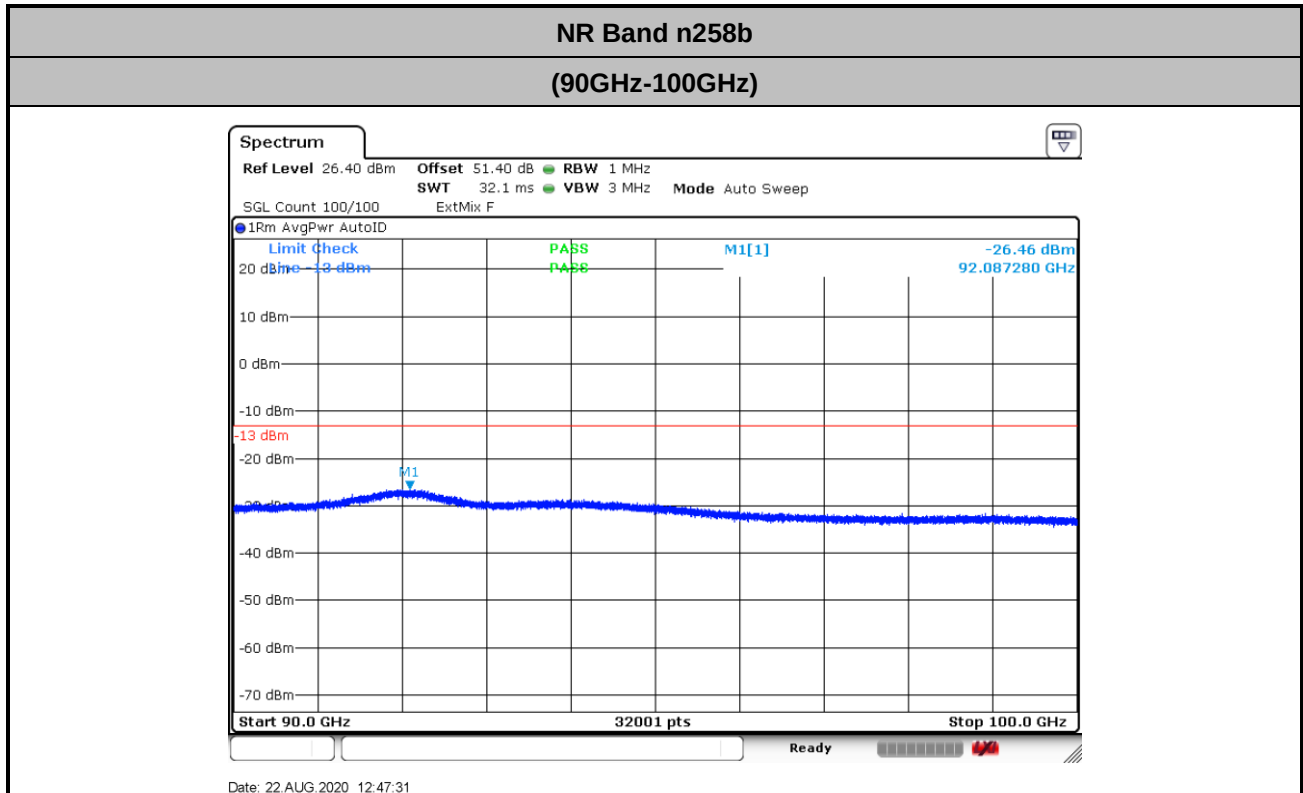
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}\end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}\end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)} \end{aligned}$$



NR Band n258b Module 1 AG0+1

Occupied Bandwidth

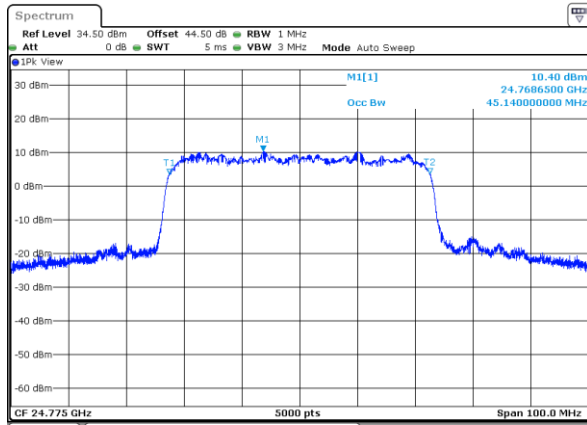
Mode	CP-OFDM Module 1 NR Band n258b: 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.14	45.30	45.12	90.80	90.40	90.32
Middle CH	45.26	45.38	45.34	92.92	92.60	93.20
Highest CH	45.42	45.54	45.62	92.84	92.64	93.08



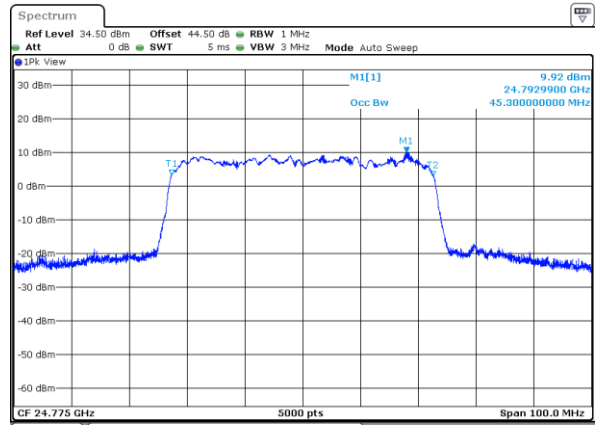
CP-OFDM Module 1

NR Band n258b

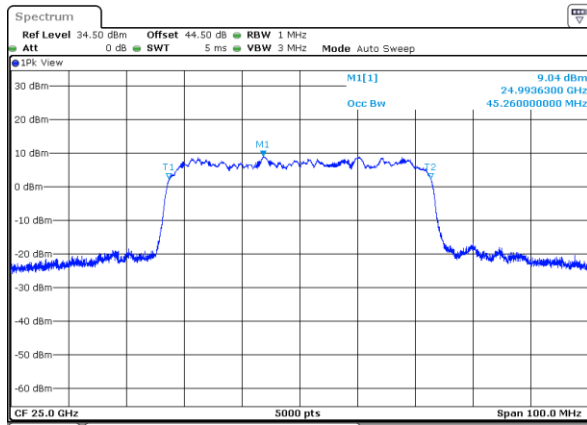
Lowest Channel / 50MHz / QPSK



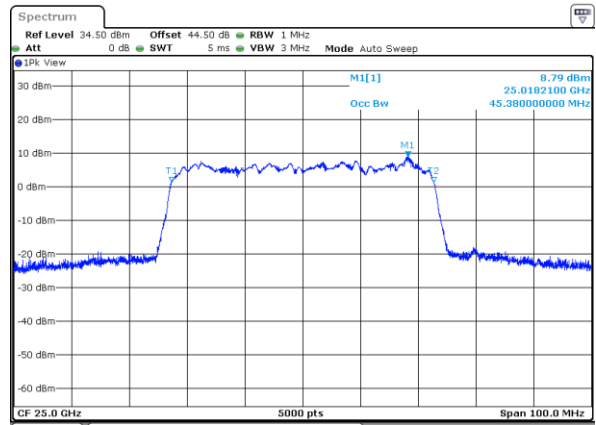
Lowest Channel / 50MHz / 16QAM



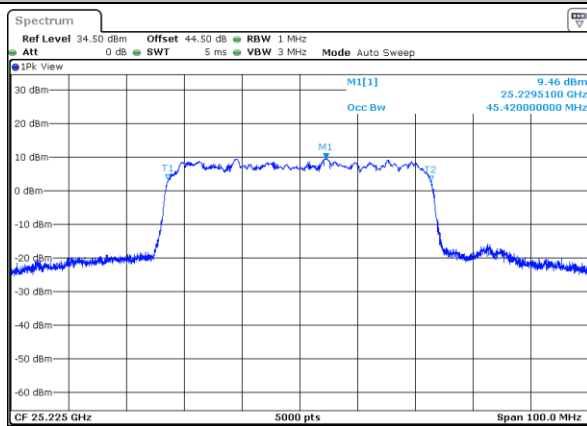
Middle Channel / 50MHz / QPSK



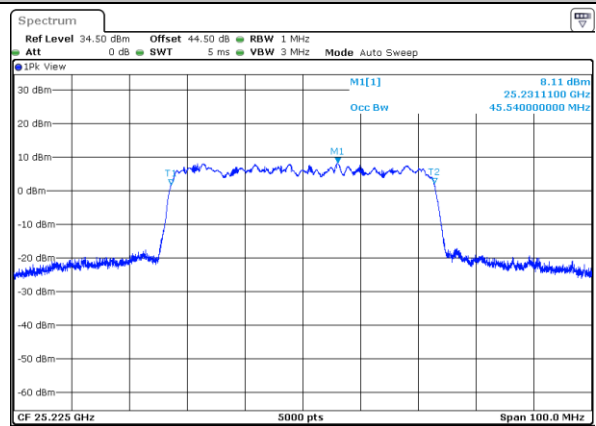
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

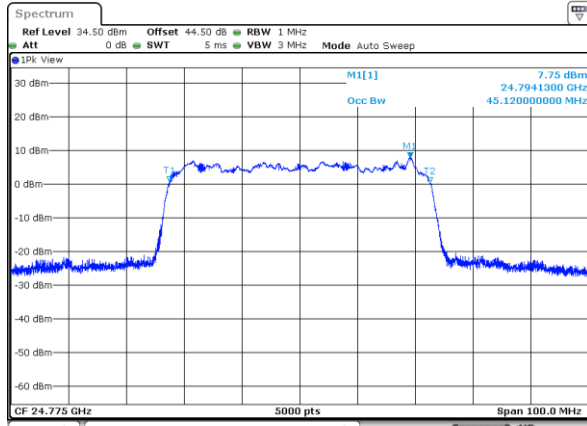




CP-OFDM Module 1

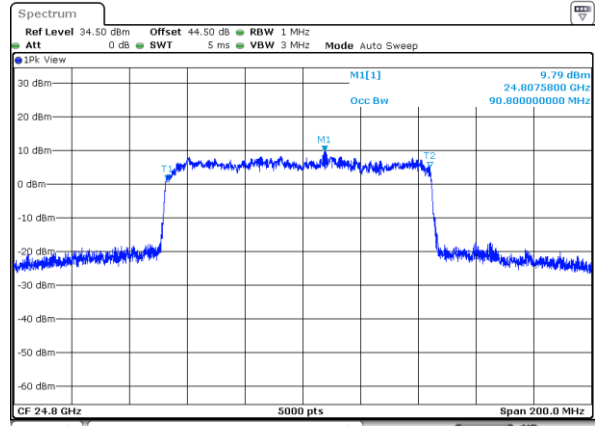
NR Band n258b

Lowest Channel / 50MHz / 64QAM



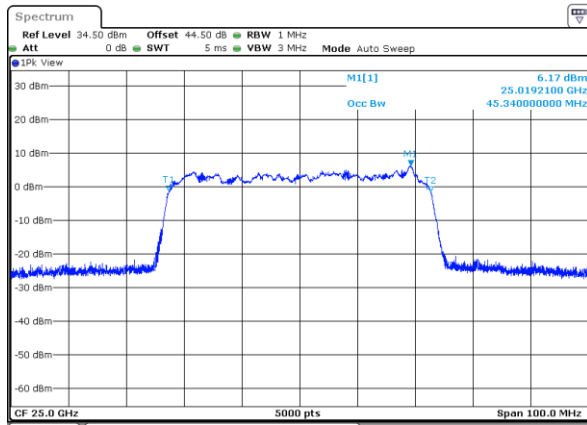
Date: 31.JUL.2020 00:04:52

Lowest Channel / 100MHz / QPSK



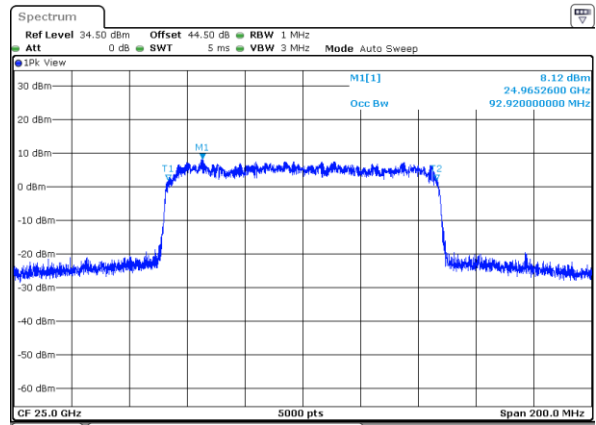
Date: 30.JUL.2020 23:37:56

Middle Channel / 50MHz / 64QAM



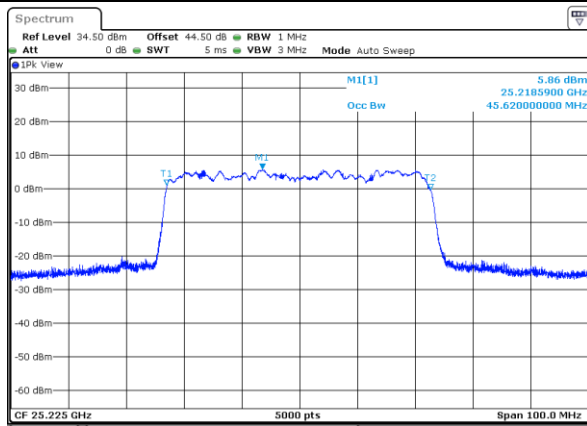
Date: 30.JUL.2020 23:49:23

Middle Channel / 100MHz / QPSK



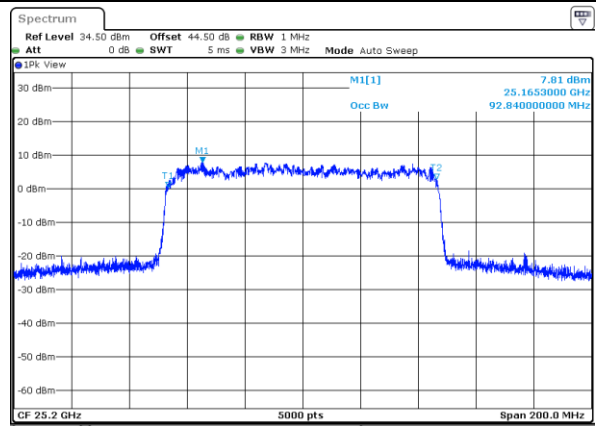
Date: 30.JUL.2020 22:20:01

Highest Channel / 50MHz / 64QAM



Date: 30.JUL.2020 22:05:10

Highest Channel / 100MHz / QPSK



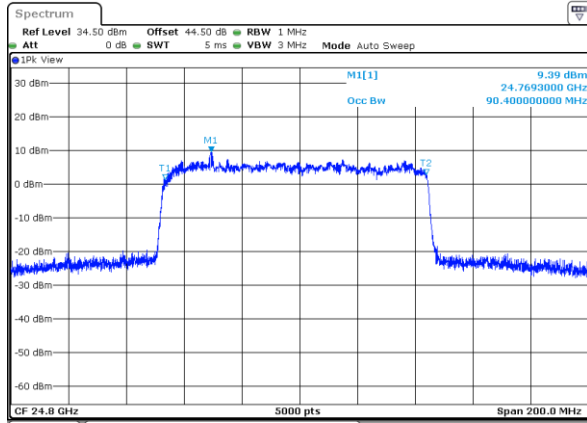
Date: 30.JUL.2020 21:22:13



CP-OFDM Module 1

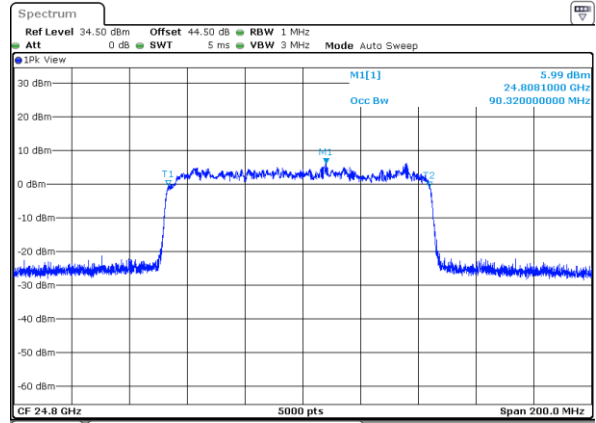
NR Band n258b

Lowest Channel / 100MHz / 16QAM



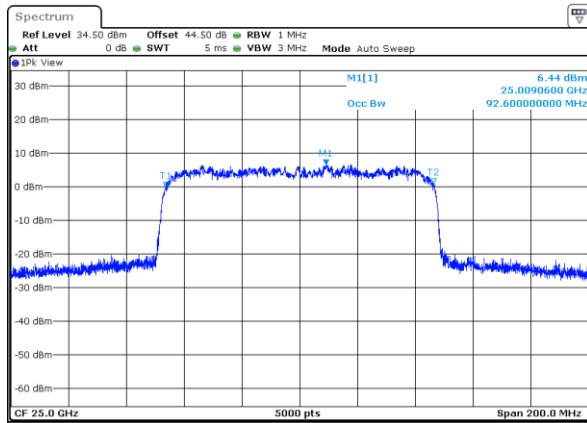
Date: 30.JUL.2020 23:39:06

Lowest Channel / 100MHz / 64QAM



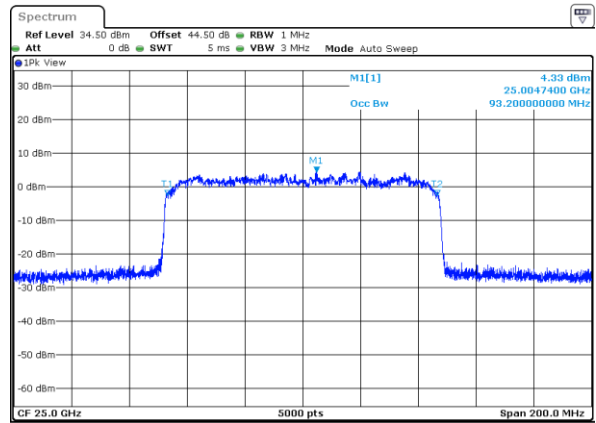
Date: 30.JUL.2020 23:40:21

Middle Channel / 100MHz / 16QAM



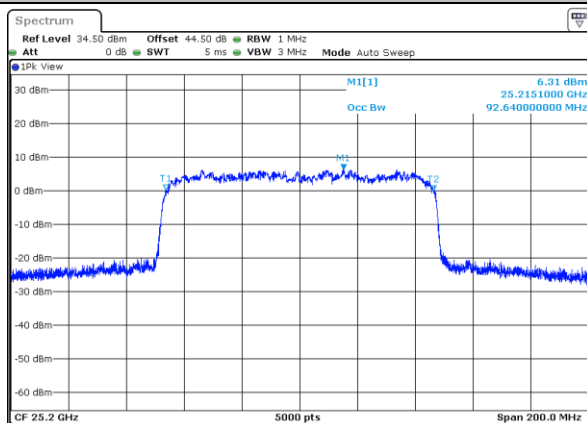
Date: 30.JUL.2020 22:20:50

Middle Channel / 100MHz / 64QAM



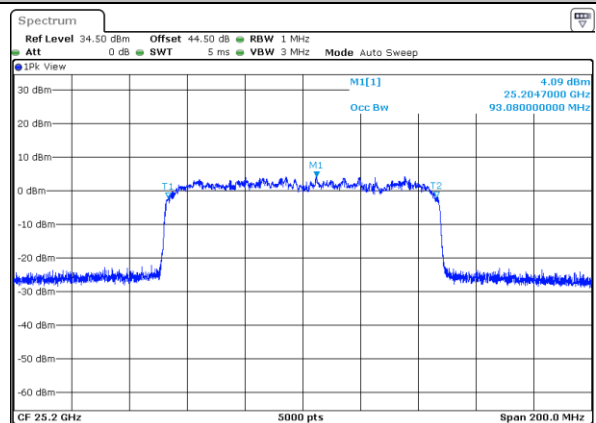
Date: 30.JUL.2020 22:21:39

Highest Channel / 100MHz / 16QAM



Date: 30.JUL.2020 21:23:22

Highest Channel / 100MHz / 64QAM



Date: 30.JUL.2020 21:24:34

Radiated Out of Band Emissions

Mode			CP-OFDM Module 1 NR Band n258b: BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-19.15	-21.4	-23.64	-22.21	-24.48	-24.8
	>10%OB	≤ -13	-32.09	-32.35	-32.33	-32.24	-32.43	-32.53
High CH	0~10%OB	≤ -5	-20.14	-21.57	-23.88	-22.20	-23.17	-24.87
	>10%OB	≤ -13	-32.56	-32.87	-32.71	-32.91	-32.99	-32.98
Result			Compliance					

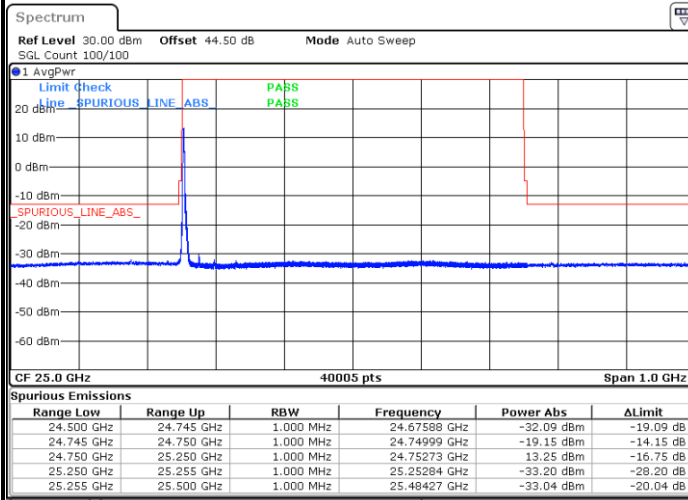
Mode			CP-OFDM Module 1 NR Band n258b: BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-25.39	-27.4	-29.58	-27.69	-29.15	-31.2
	>10%OB	≤ -13	-26.66	-28.55	-30.61	-28.41	-29.71	-31.6
High CH	0~10%OB	≤ -5	-26.21	-26.85	-29.45	-28.38	-29.41	-31.69
	>10%OB	≤ -13	-28.66	-29.19	-32.13	-30.51	-31.37	-32.6
Result			Compliance					



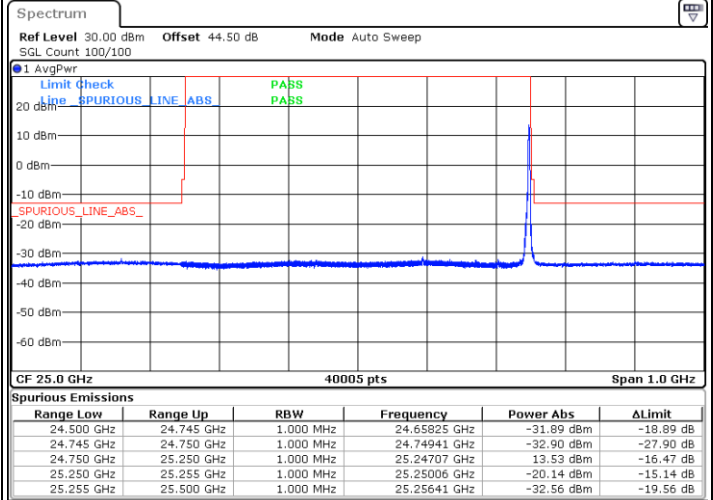
CP-OFDM Module 1

NR Band n258b/ 50MHz / QPSK

Lowest Band Edge / 1 RB

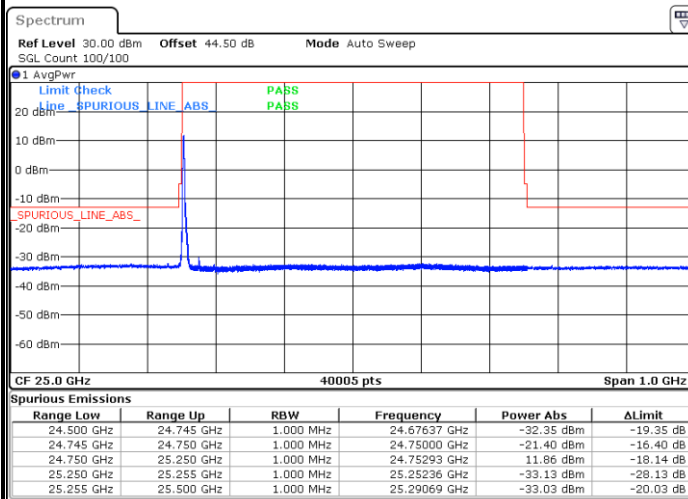


Highest Band Edge / 1 RB

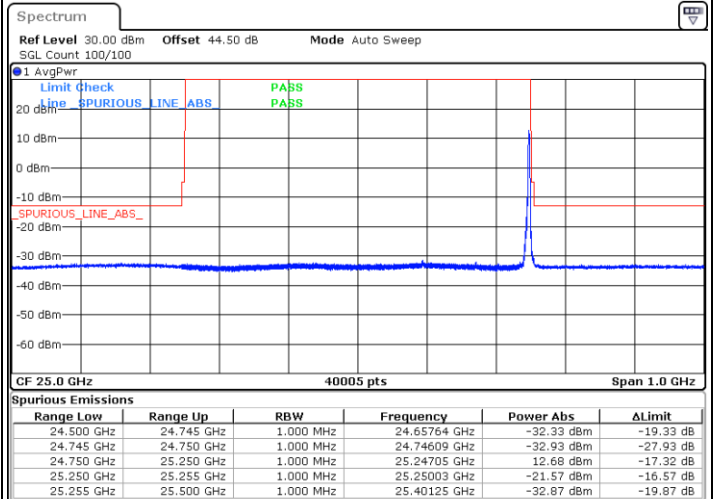


NR Band n258b/ 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

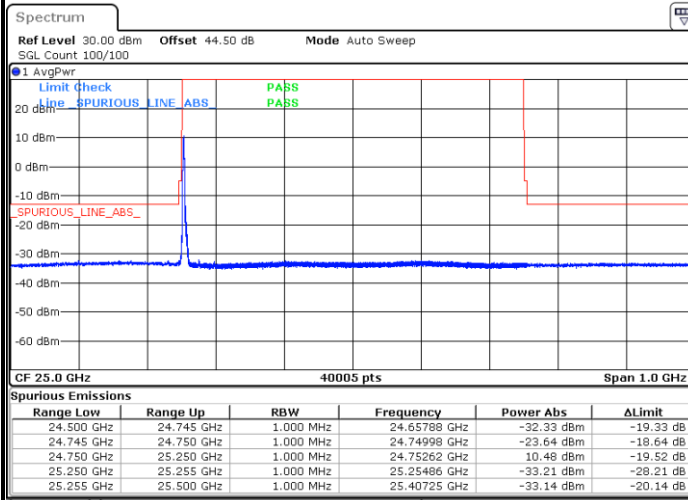




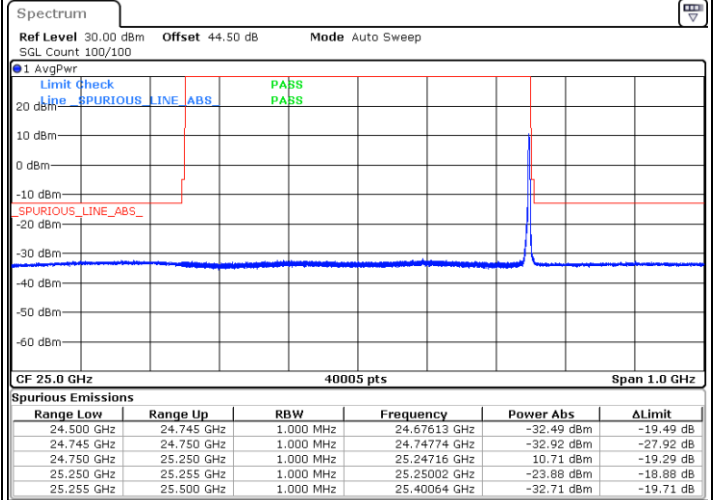
CP-OFDM Module 1

NR Band n258b/ 50MHz / 64QAM

Lowest Band Edge / 1 RB

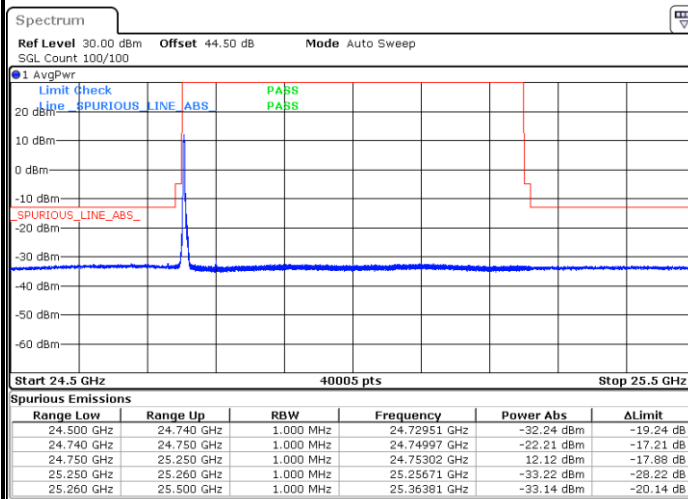


Highest Band Edge / 1 RB

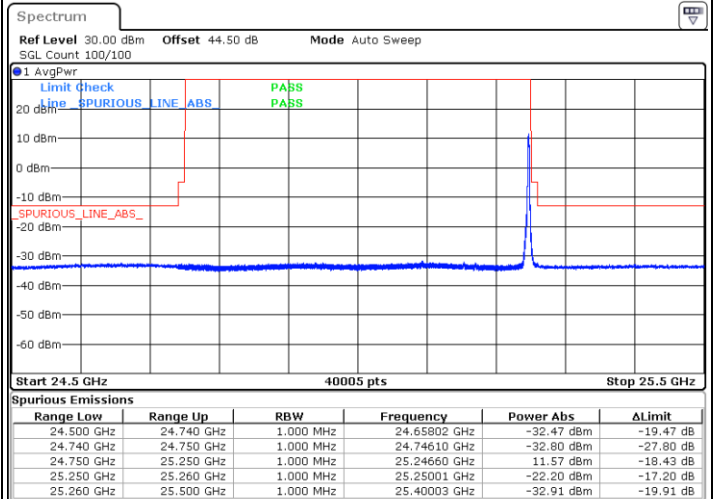


NR Band n258b/ 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

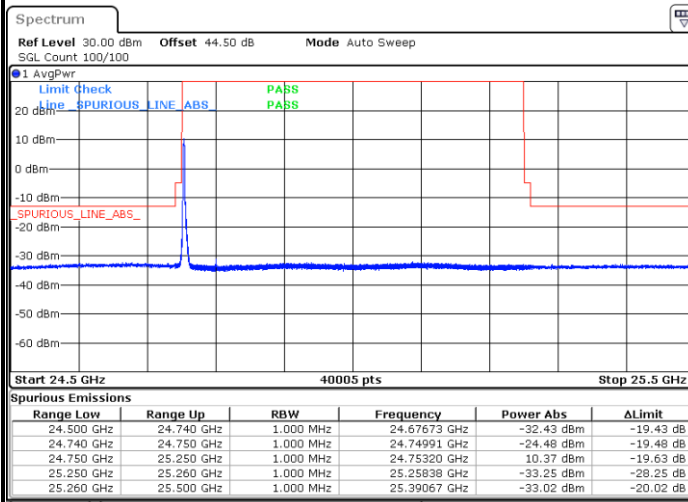




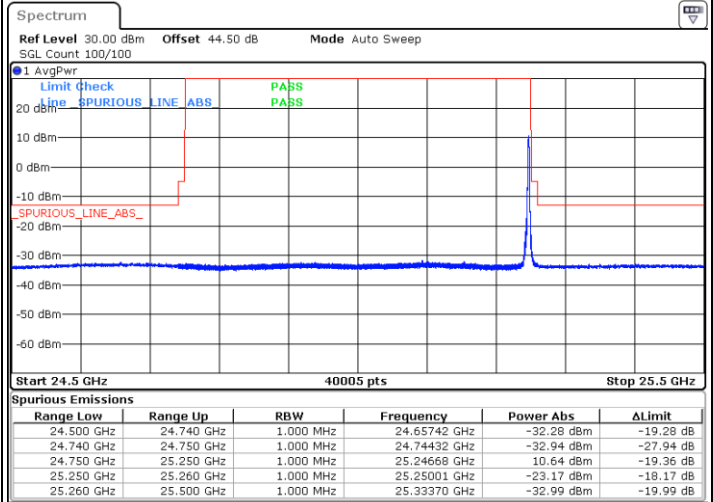
CP-OFDM Module 1

NR Band n258b/ 100MHz / 16QAM

Lowest Band Edge / 1 RB

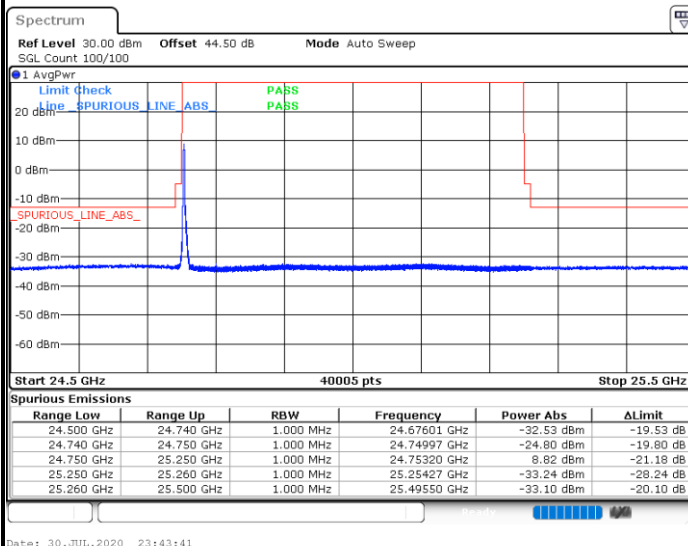


Highest Band Edge / 1 RB

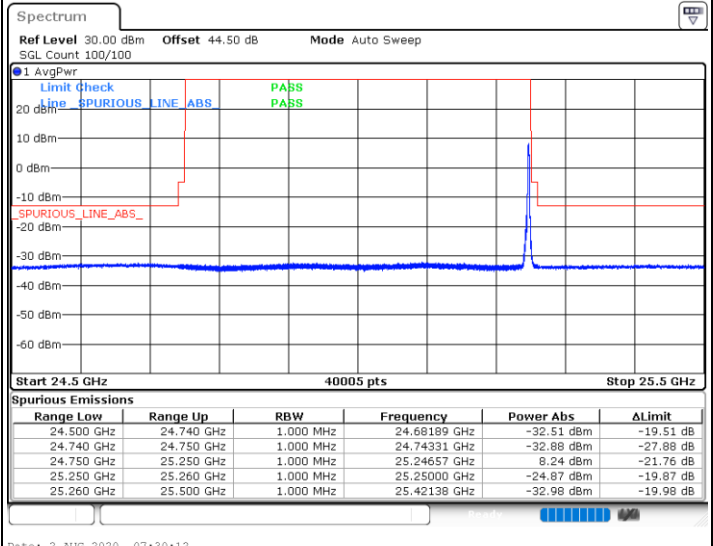


NR Band n258b/ 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

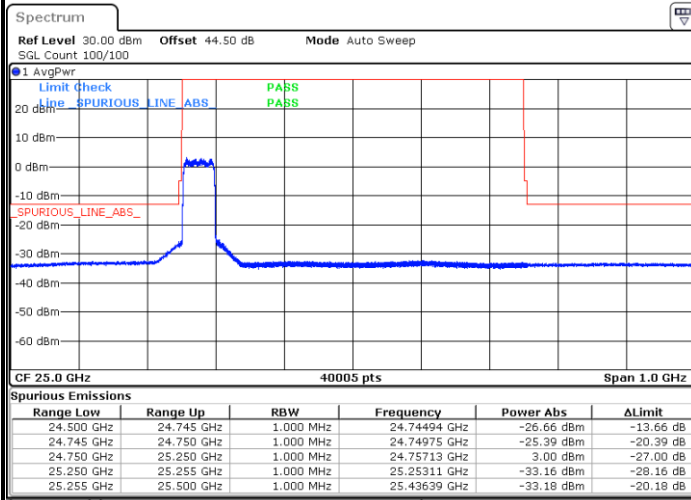




CP-OFDM Module 1

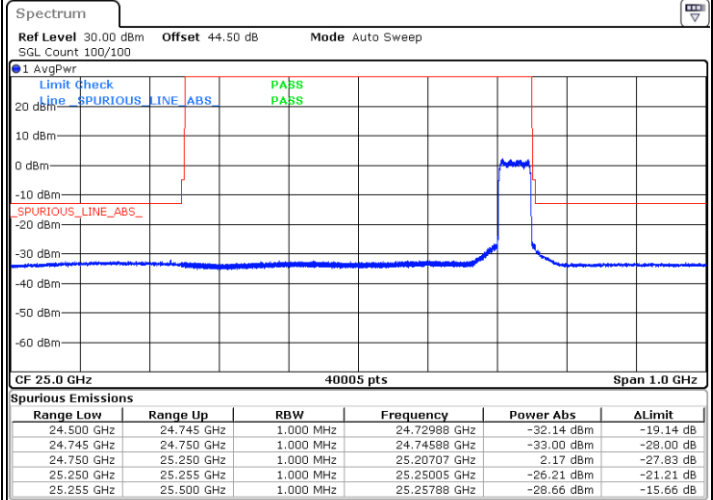
NR Band n258b/ 50MHz / QPSK

Lowest Band Edge / Full RB



Date: 31.JUL.2020 00:03:00

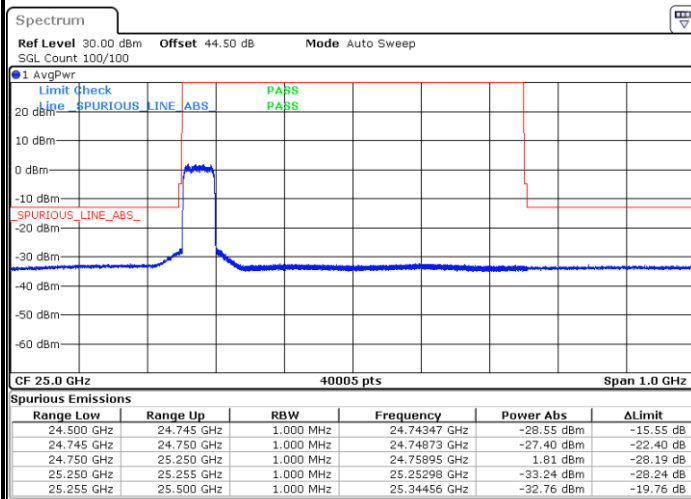
Highest Band Edge / Full RB



Date: 30.JUL.2020 21:58:12

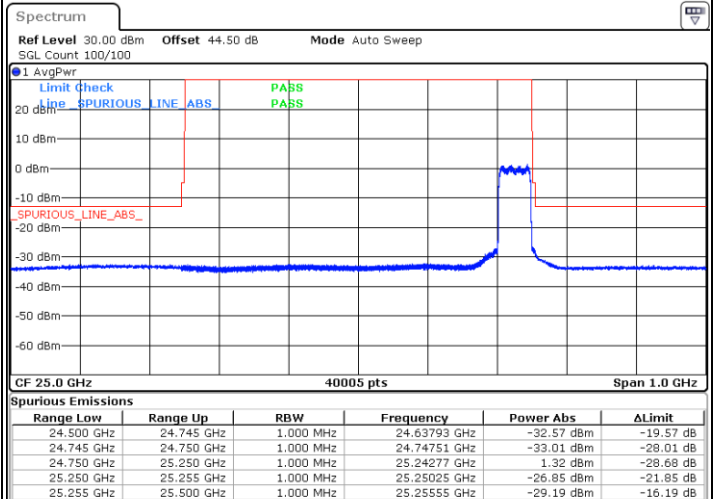
NR Band n258b/ 50MHz / 16QAM

Lowest Band Edge / Full RB



Date: 31.JUL.2020 00:04:27

Highest Band Edge / Full RB



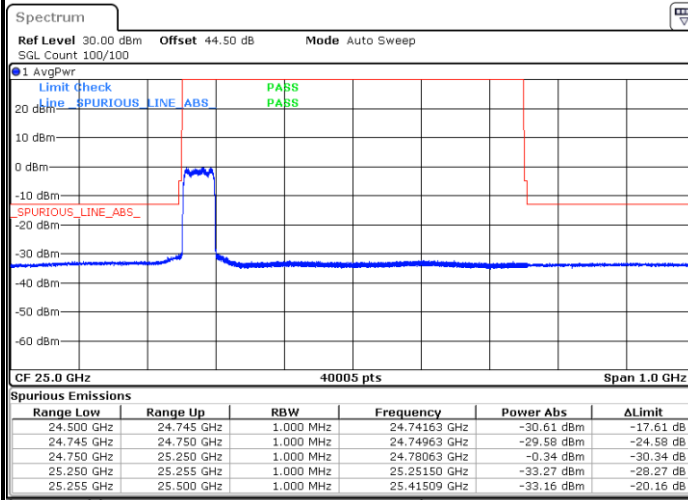
Date: 30.JUL.2020 21:59:17



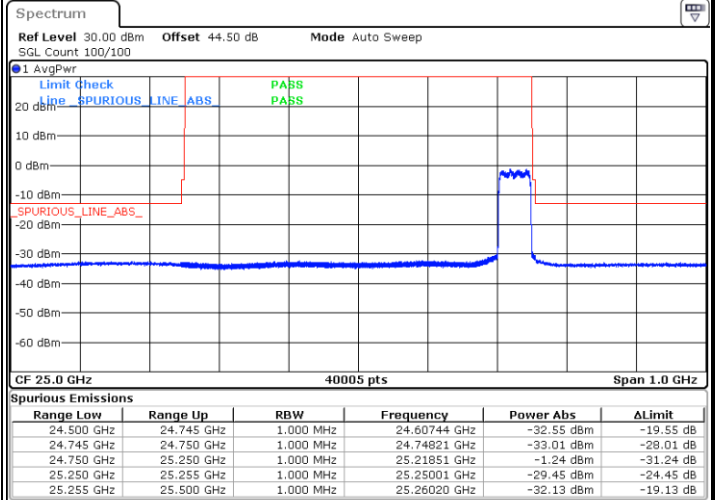
CP-OFDM Module 1

NR Band n258b/ 50MHz / 64QAM

Lowest Band Edge / Full RB

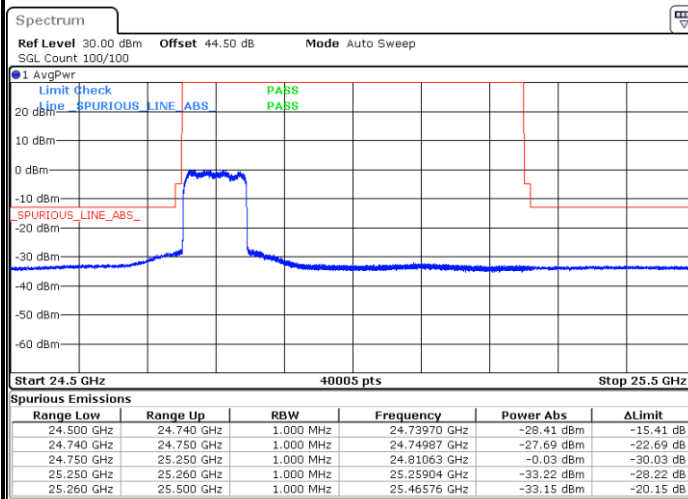


Highest Band Edge / Full RB

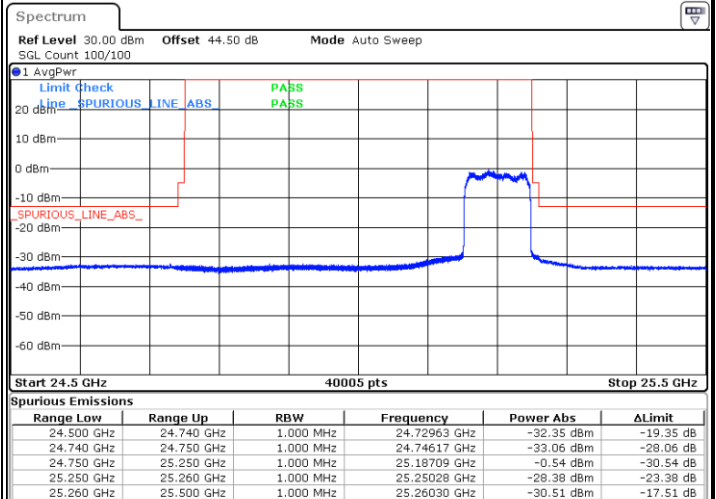


NR Band n258b/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

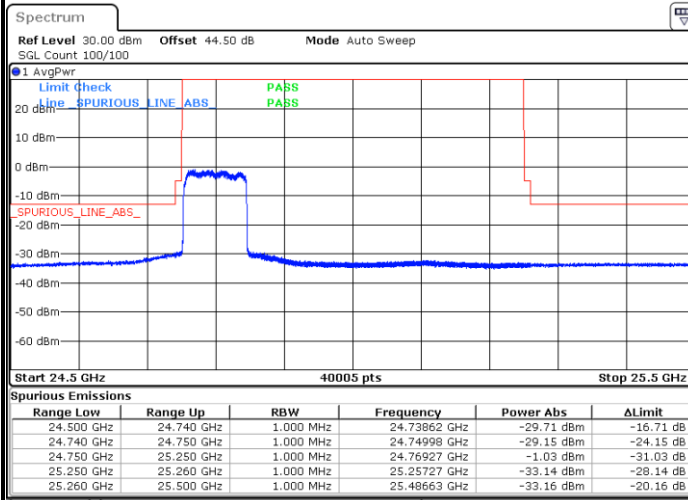




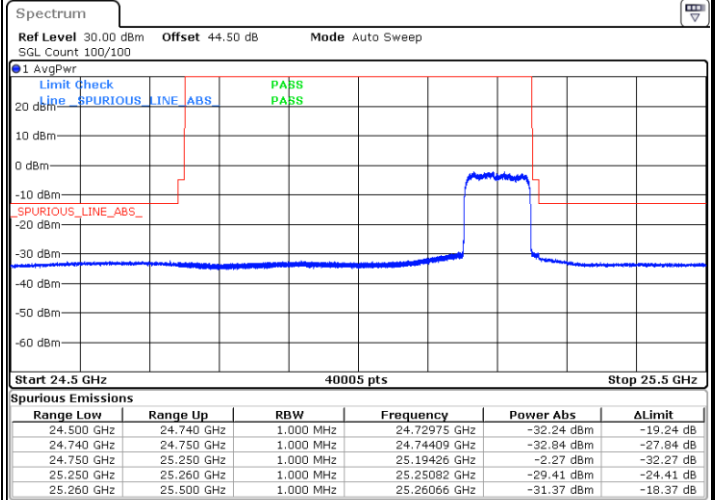
CP-OFDM Module 1

NR Band n258b/ 100MHz / 16QAM

Lowest Band Edge / Full RB

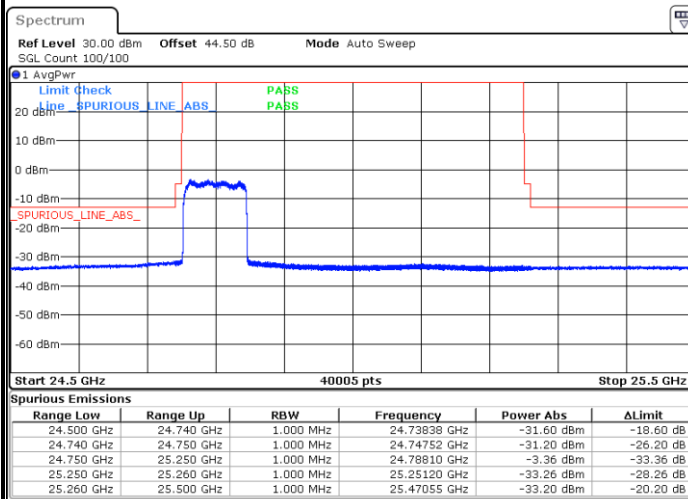


Highest Band Edge / Full RB

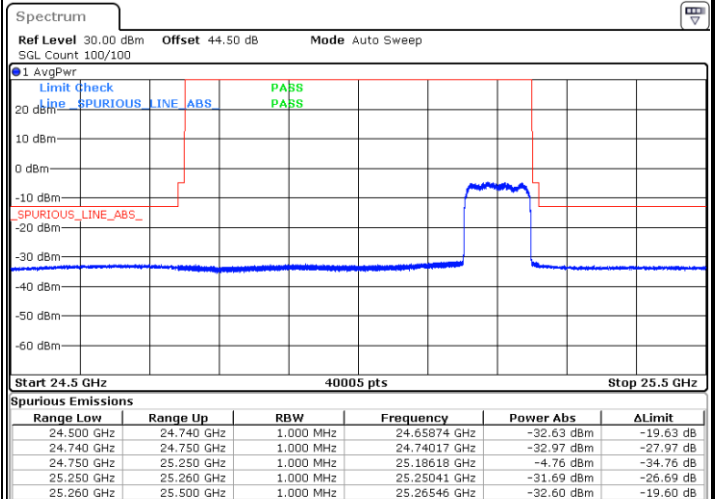


NR Band n258b/ 100MHz / 64QAM

Lowest Band Edge / Full RB



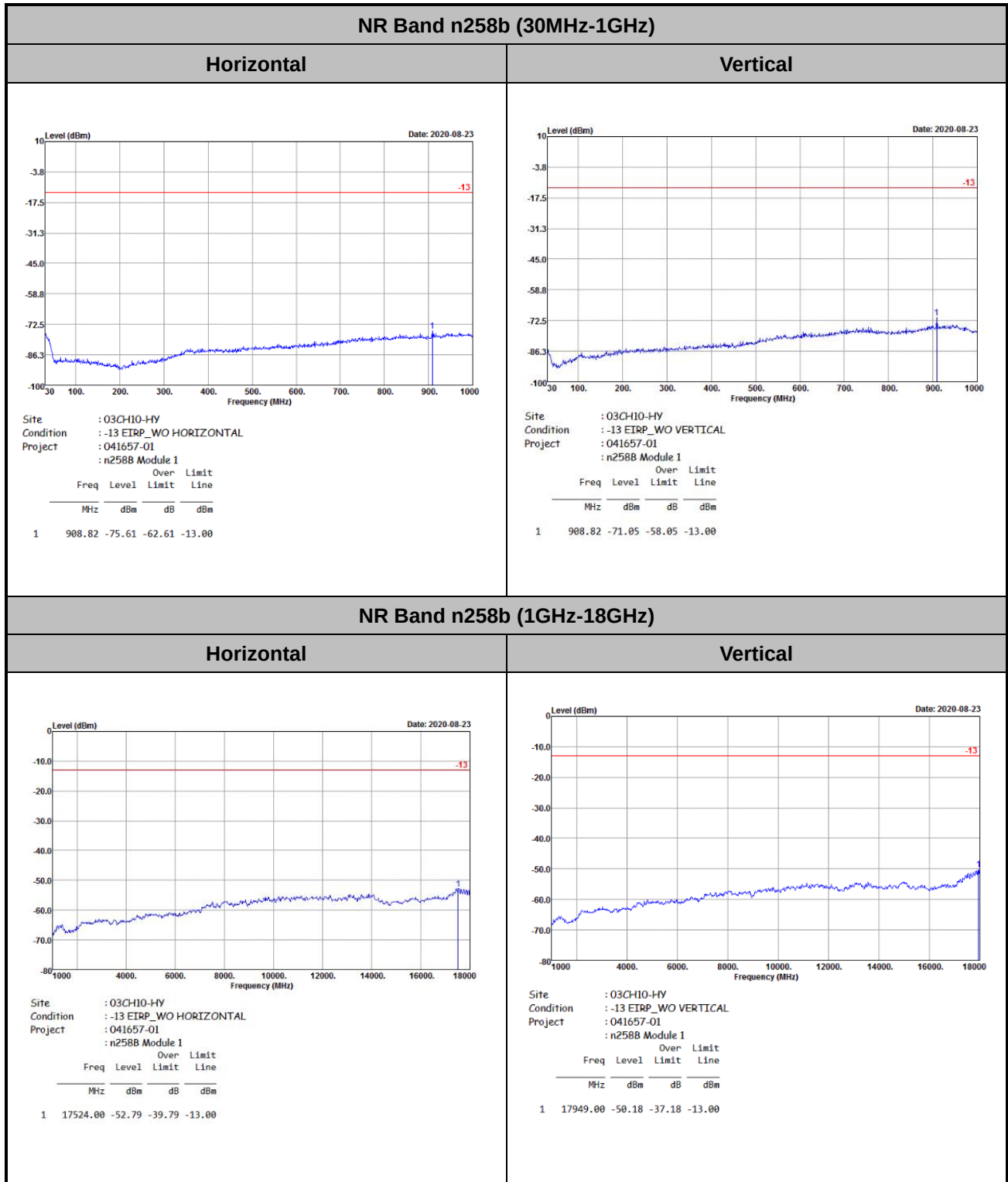
Highest Band Edge / Full RB



Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

Only the noise floor is reported.



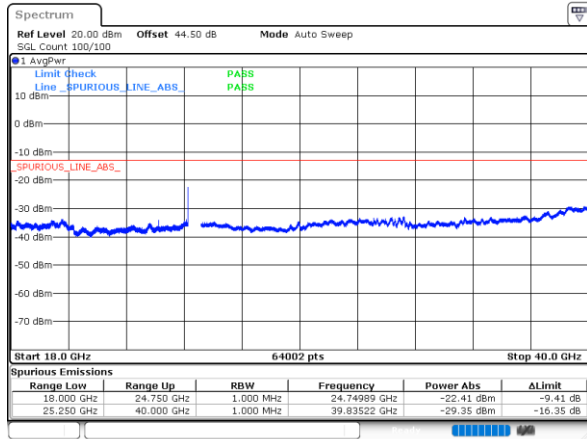


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

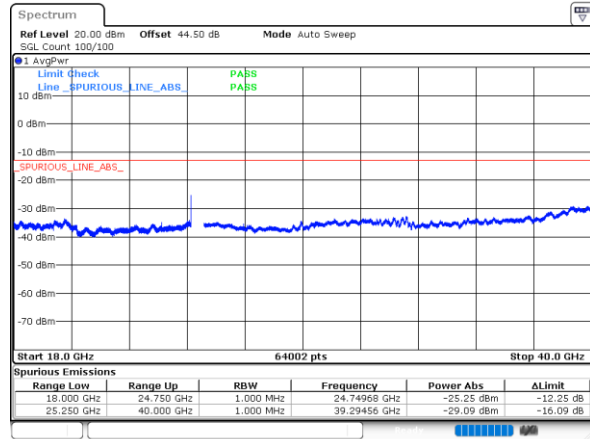
CP-OFDM Module 1

NR Band n258bQPSK (18-40GHz)

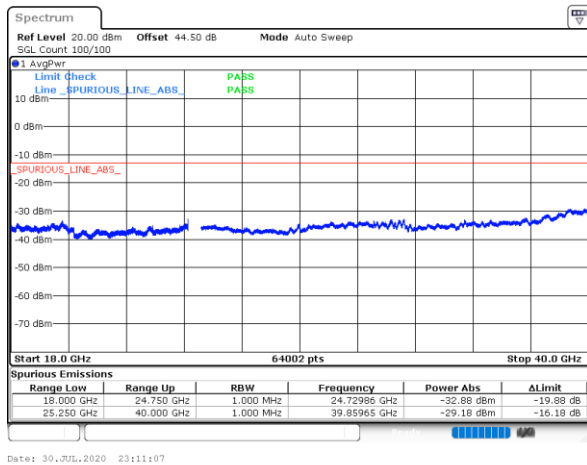
Lowest Channel / 50MHz



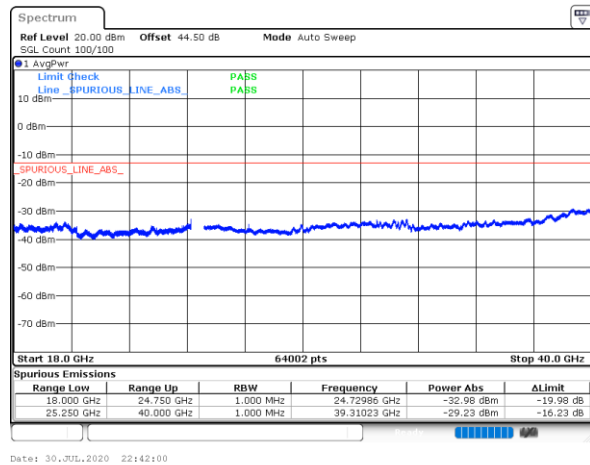
Lowest Channel / 100MHz



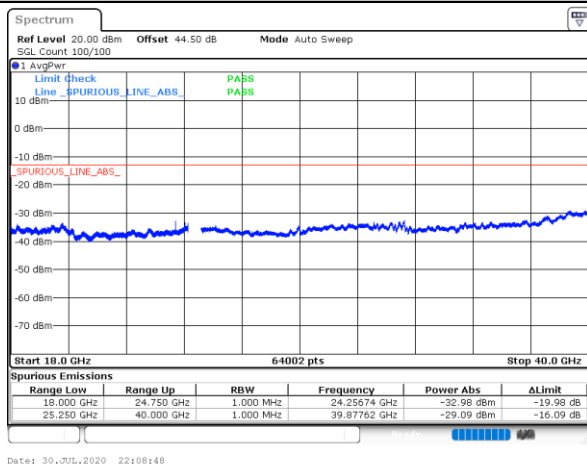
Middle Channel / 50MHz



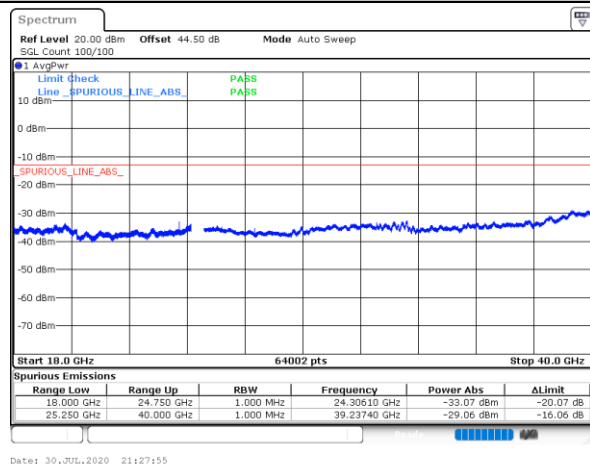
Middle Channel / 100MHz



Highest Channel / 50MHz

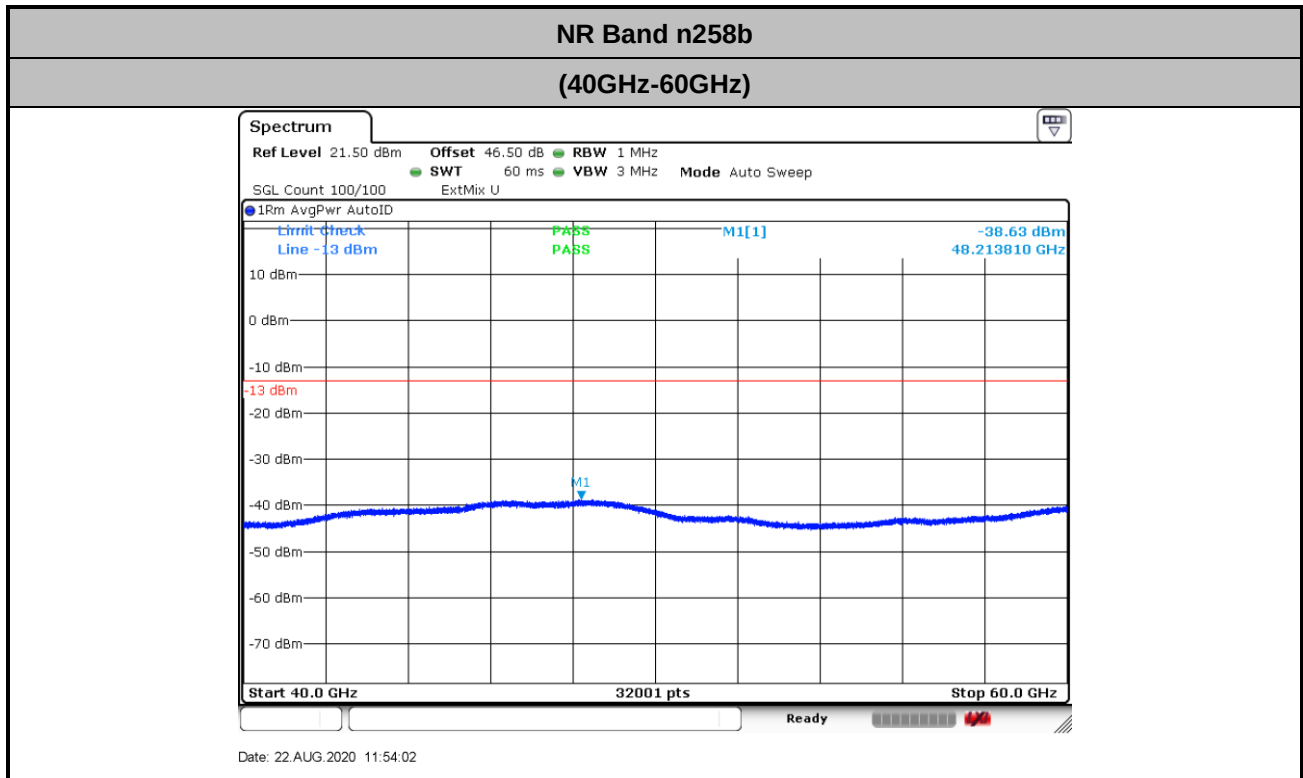


Highest Channel / 100MHz

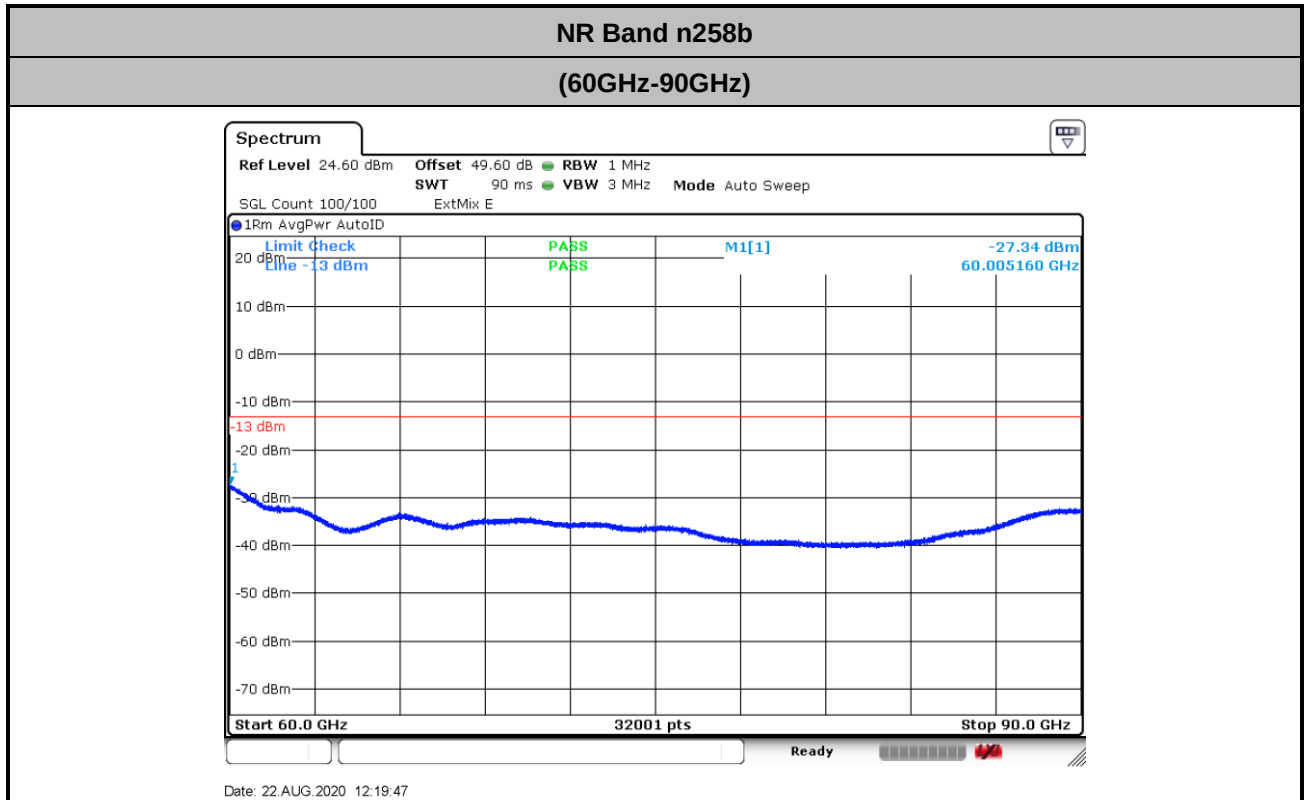




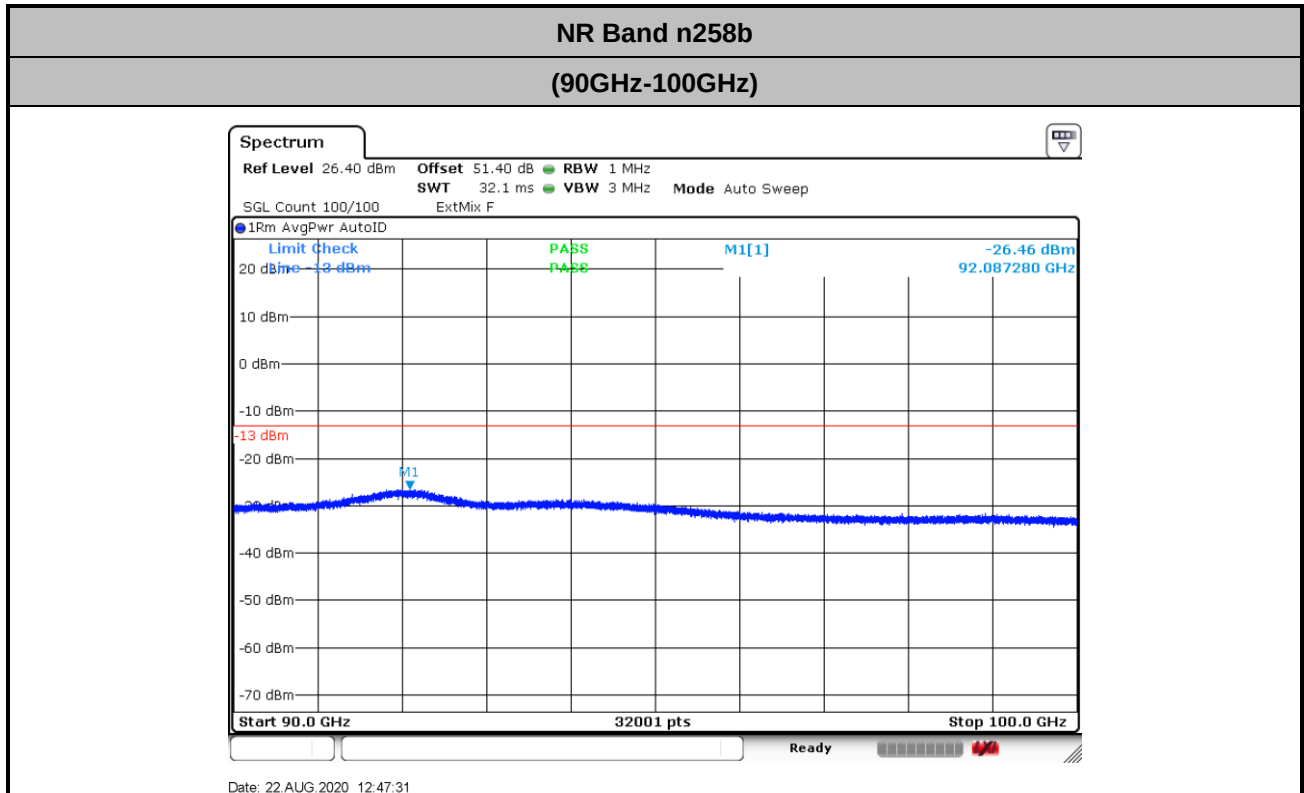
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}\end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}\end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)}\end{aligned}$$

NR Band n258b

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	25.0001788	-178.800	4.644	Pass
40	Normal Voltage	25.0001289	-128.900	3.348	
30	Normal Voltage	25.0000789	-78.900	2.049	
20(Ref.)	Normal Voltage	25	0.000	0.000	
10	Normal Voltage	24.9999421	57.900	1.504	
0	Normal Voltage	24.9999221	77.900	2.023	
-10	Normal Voltage	24.9999021	97.900	2.543	
-20	Normal Voltage	24.9998821	117.900	3.062	
-30	Normal Voltage	24.9998422	157.800	4.099	
20	Maximum Voltage	25.000012	-12.000	0.312	
20	Normal Voltage	25.000019	-19.000	0.494	
20	Battery End Point	24.999982	18.000	0.468	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the operation band.



NR Band n260 Module 0 AG0

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n260 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.21	45.28	44.77	45.20	90.37	90.14	90.41	90.31
Middle CH	45.31	45.25	45.13	45.02	90.28	90.20	90.45	90.08
Highest CH	45.21	45.21	45.20	45.46	90.74	90.11	90.14	90.01

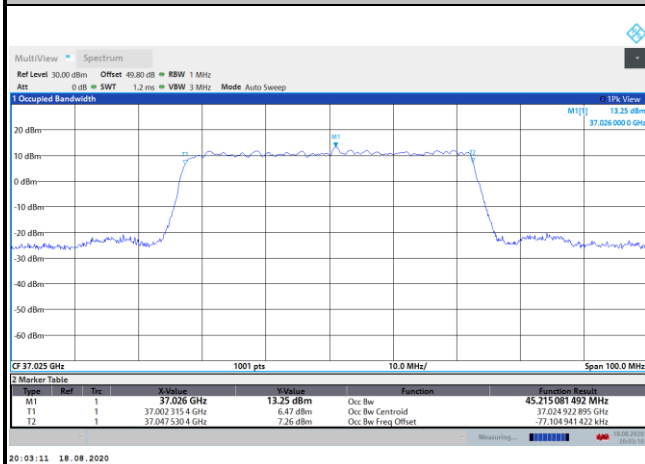
Mode	CP-OFDM Module 0 NR Band n260 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.29	45.23	45.13	92.72	92.55	92.83
Middle CH	45.13	45.22	45.28	92.55	92.43	92.59
Highest CH	45.28	45.18	45.26	92.69	92.68	92.84



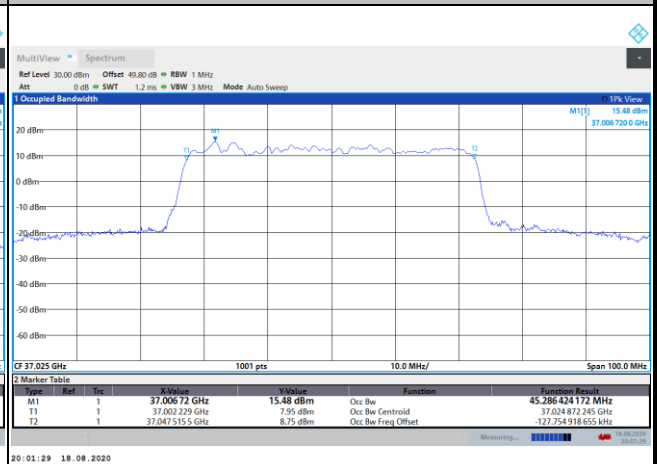
DFT-s-OFDM Module 0

NR Band n260

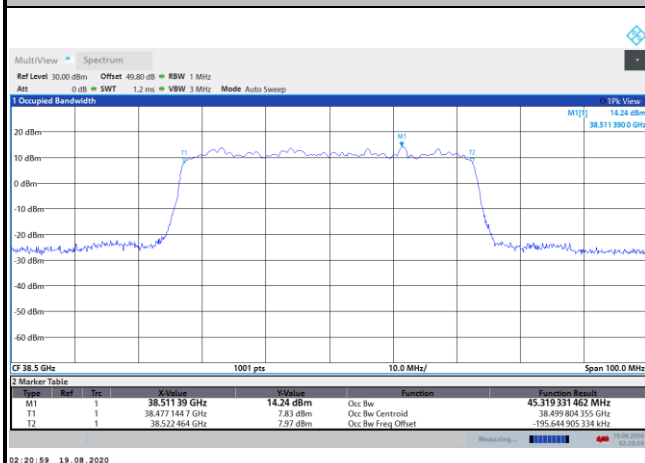
Lowest Channel / 50MHz / BPSK



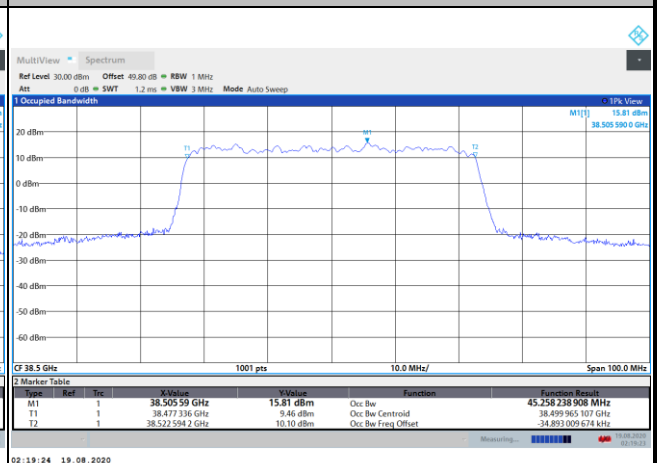
Lowest Channel / 50MHz / QPSK



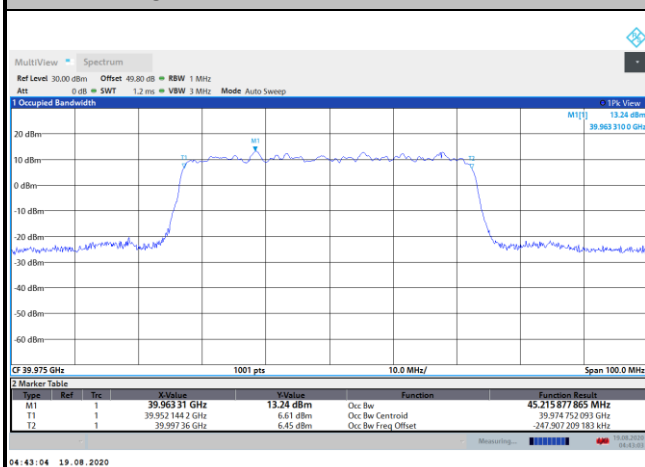
Middle Channel / 50MHz / BPSK



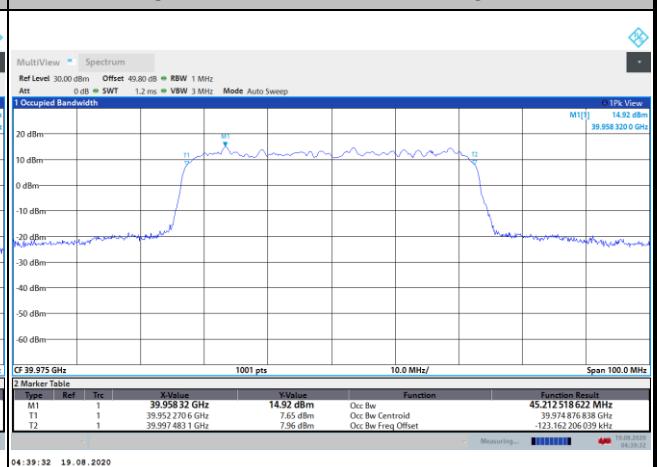
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

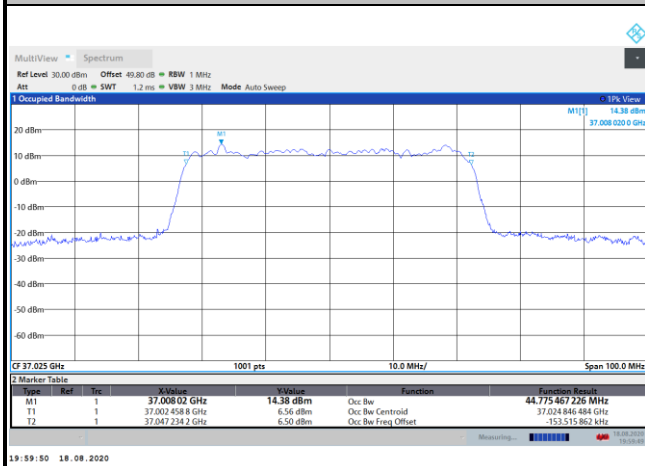




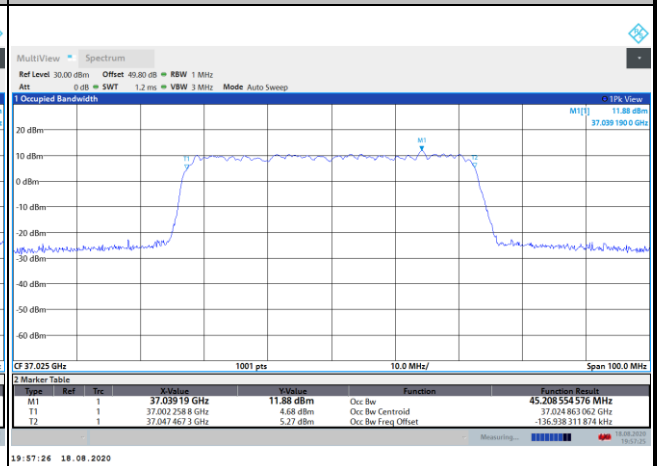
DFT-s-OFDM Module 0

NR Band n260

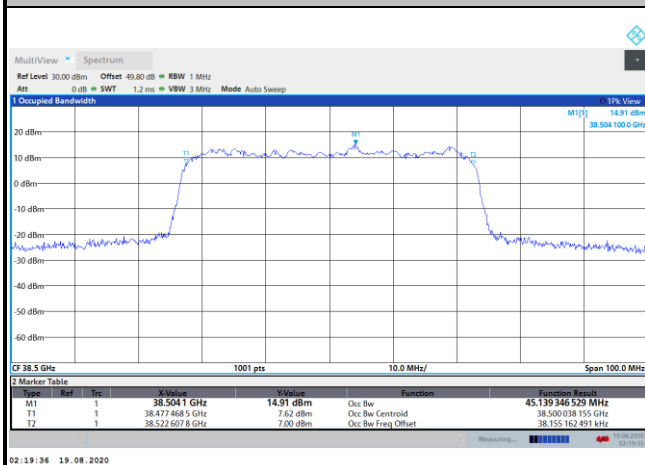
Lowest Channel / 50MHz / 16QAM



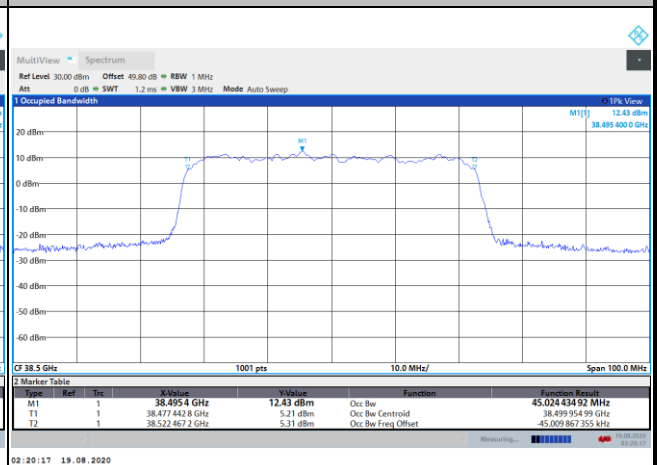
Lowest Channel / 50MHz / 64QAM



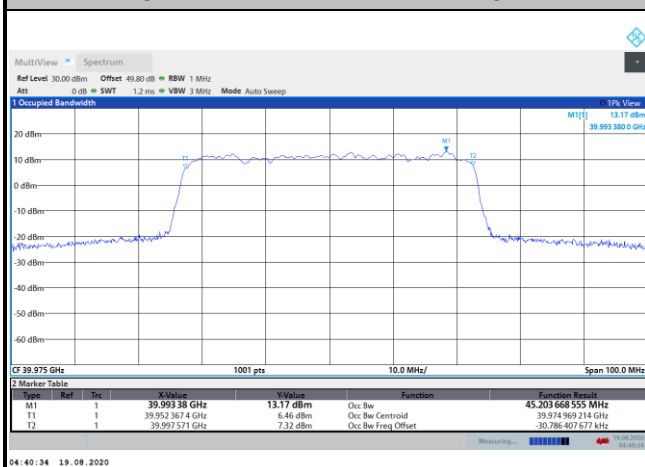
Middle Channel / 50MHz / 16QAM



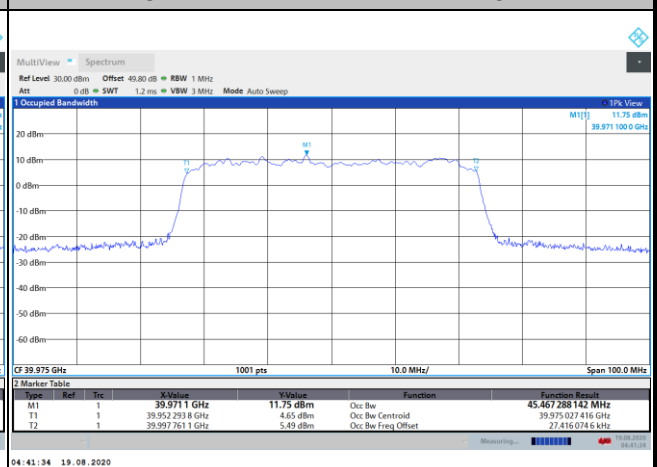
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

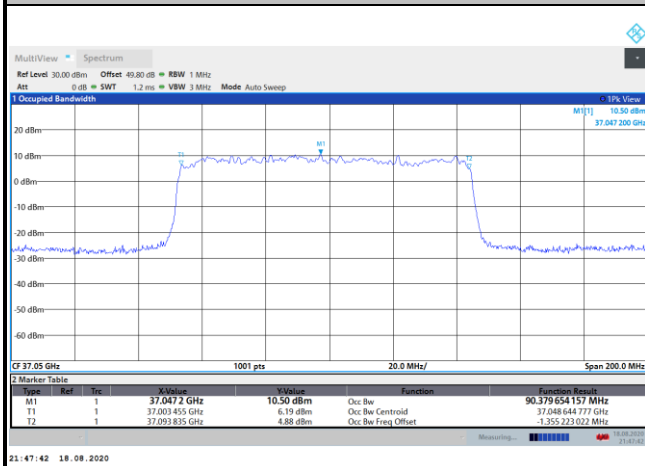




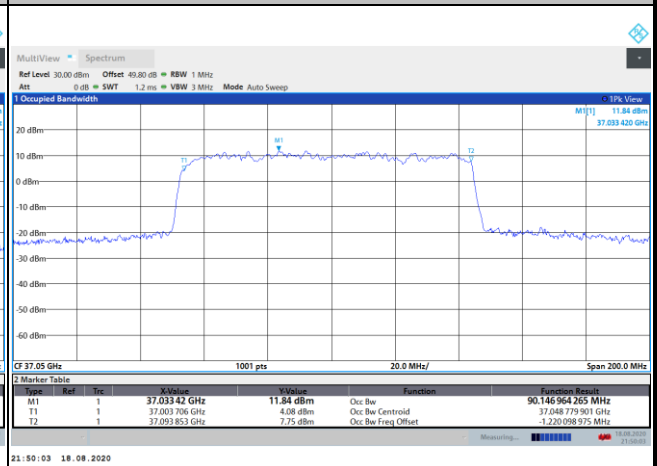
DFT-s-OFDM Module 0

NR Band n260

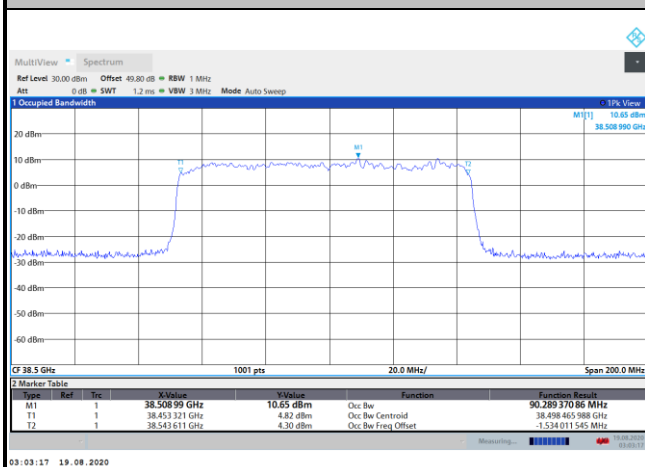
Lowest Channel / 100MHz / BPSK



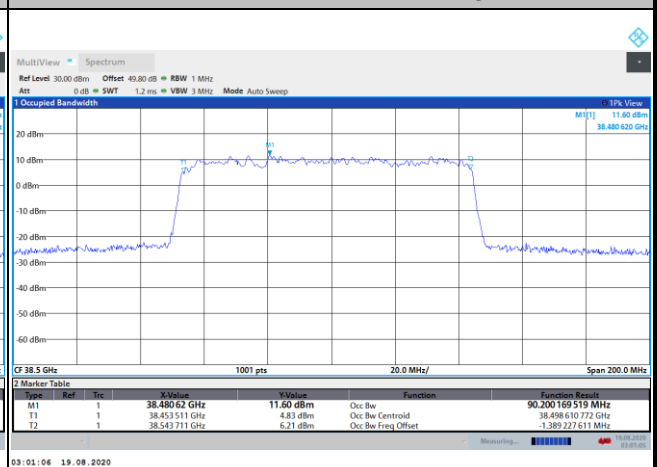
Lowest Channel / 100MHz / QPSK



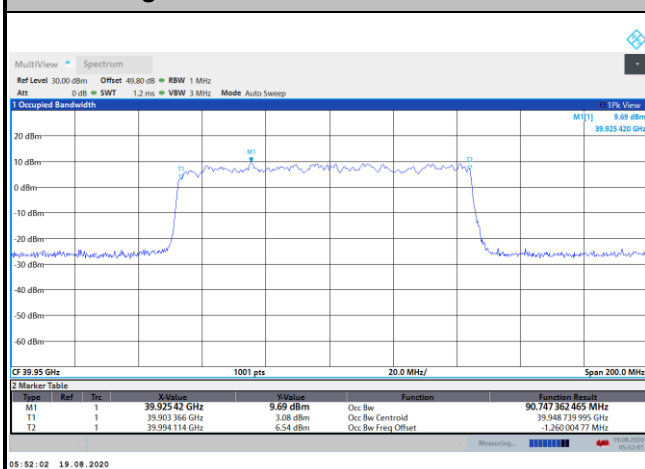
Middle Channel / 100MHz / BPSK



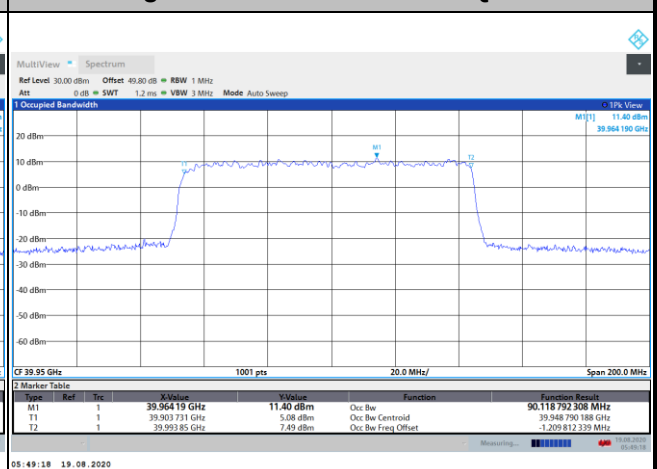
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

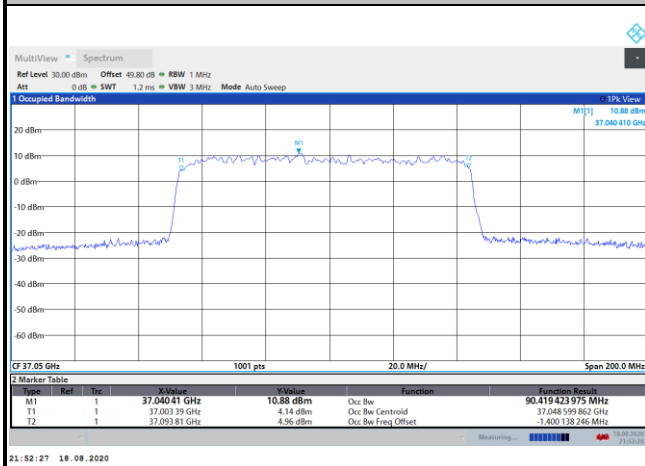




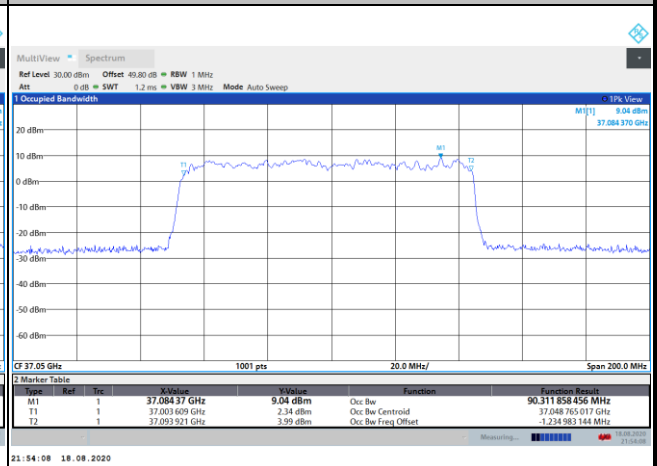
DFT-s-OFDM Module 0

NR Band n260

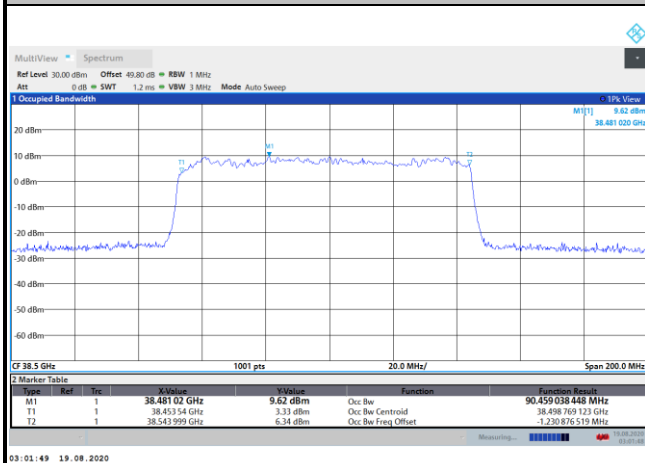
Lowest Channel / 100MHz / 16QAM



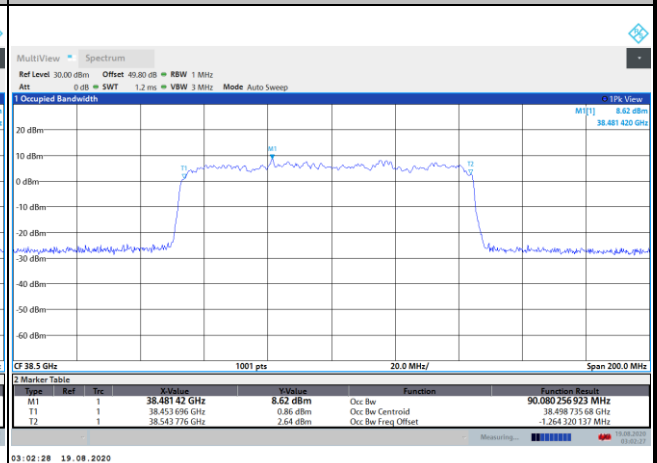
Lowest Channel / 100MHz / 64QAM



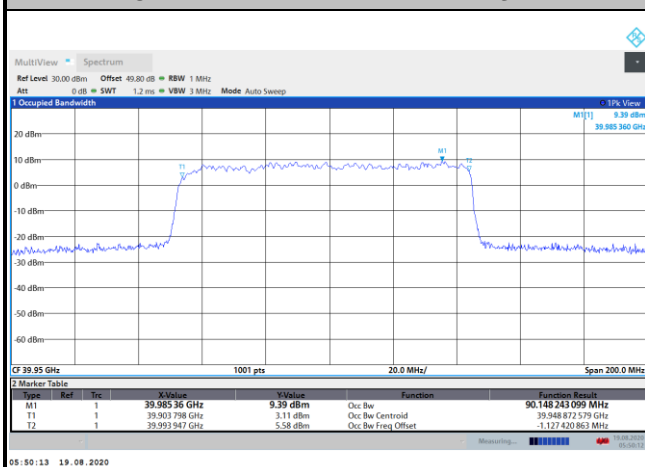
Middle Channel / 100MHz / 16QAM



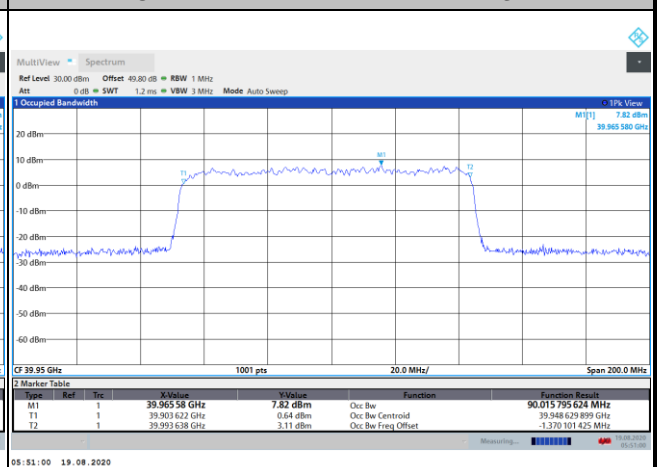
Middle Channel / 100MHz / 64QAM

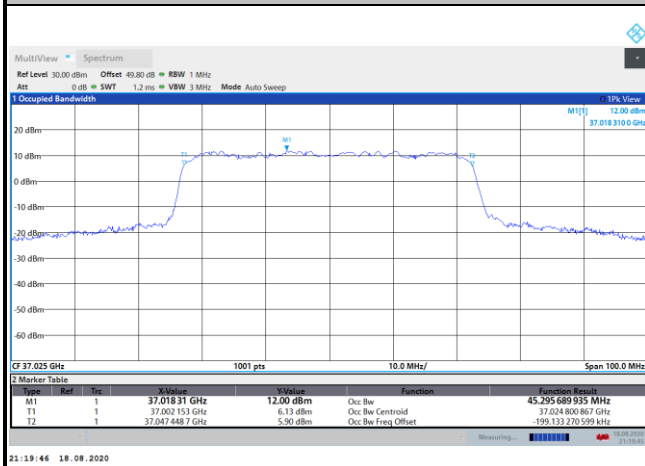
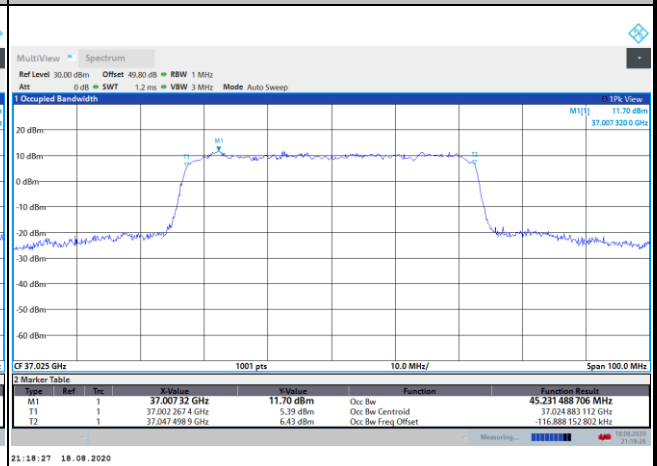
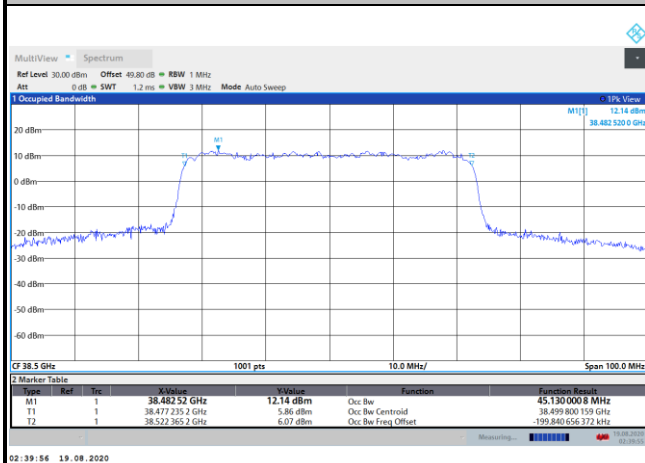
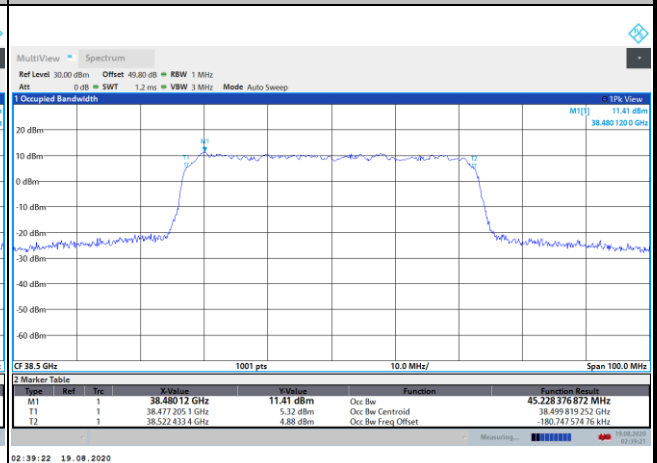
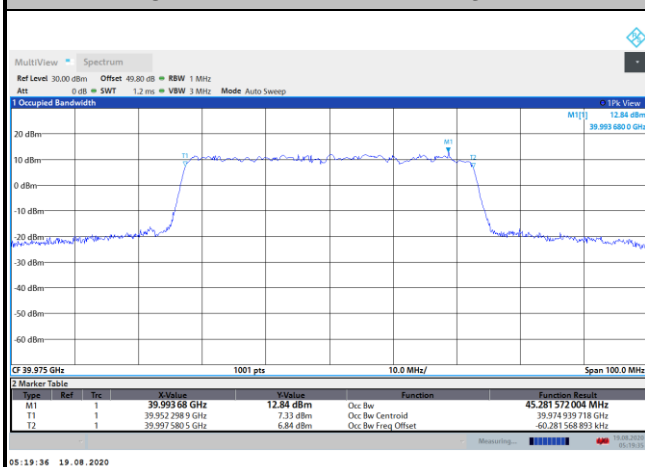
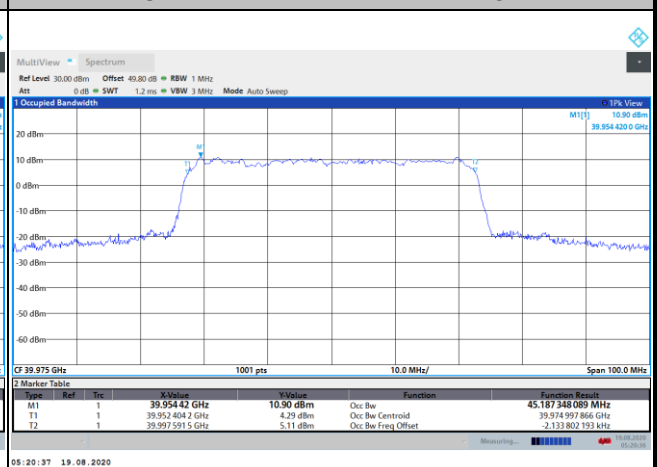


Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM



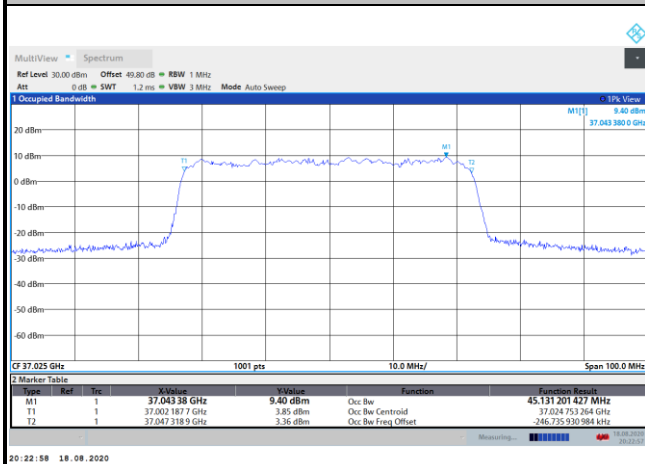
CP-OFDM Module 0
NR Band n260
Lowest Channel / 50MHz / QPSK

Lowest Channel / 50MHz / 16QAM

Middle Channel / 50MHz / QPSK

Middle Channel / 50MHz / 16QAM

Highest Channel / 50MHz / QPSK

Highest Channel / 50MHz / 16QAM




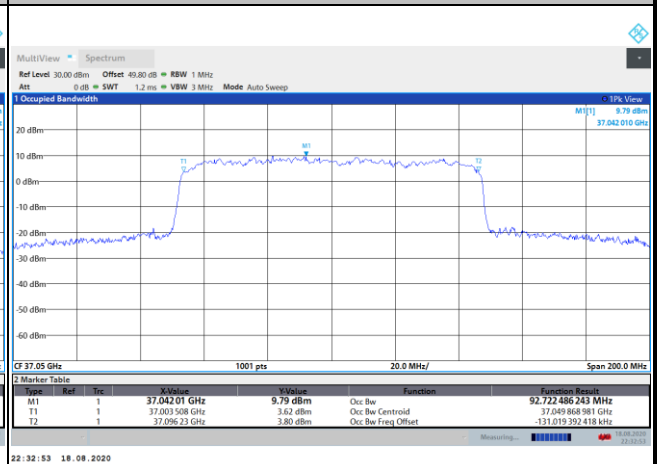
CP-OFDM Module 0

NR Band n260

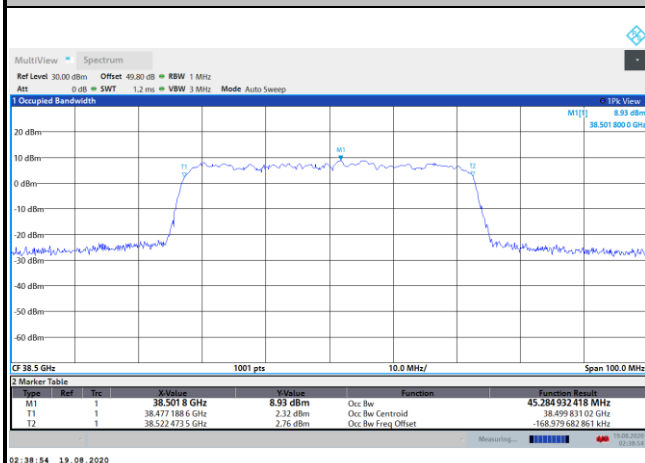
Lowest Channel / 50MHz / 64QAM



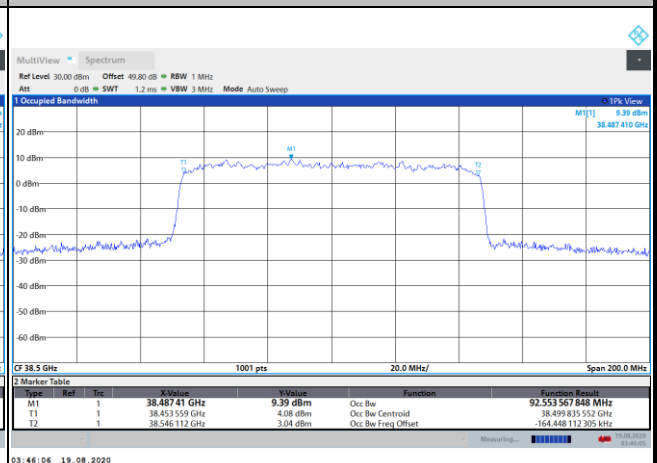
Lowest Channel / 100MHz / QPSK



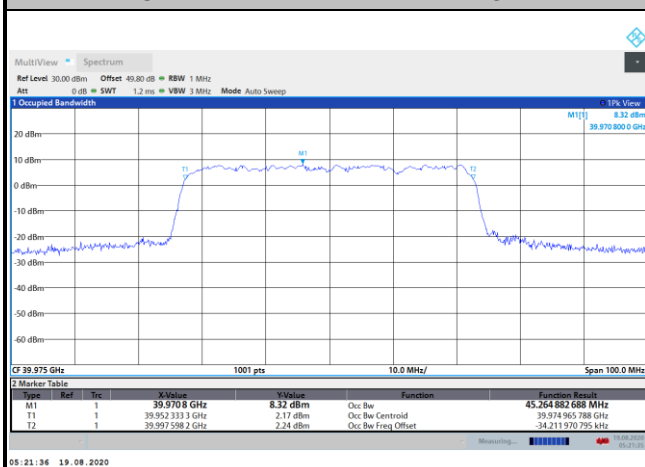
Middle Channel / 50MHz / 64QAM



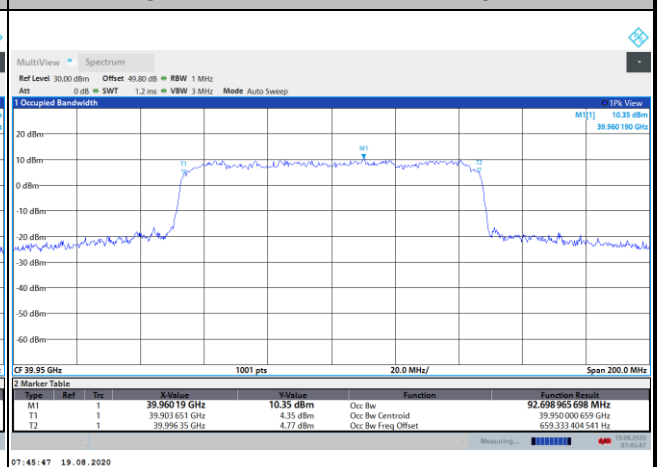
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

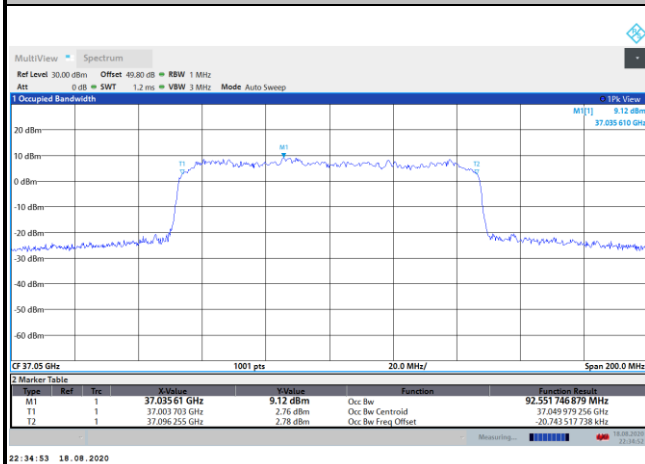




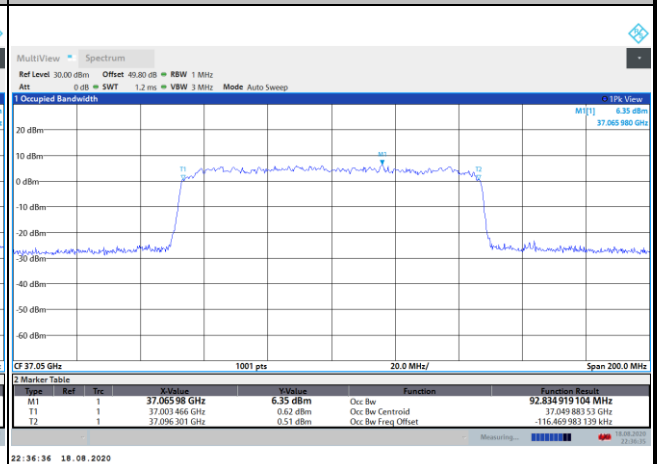
CP-OFDM Module 0

NR Band n260

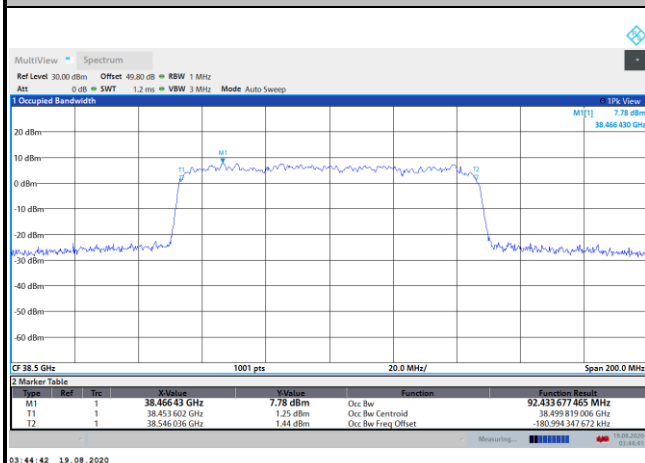
Lowest Channel / 100MHz / 16QAM



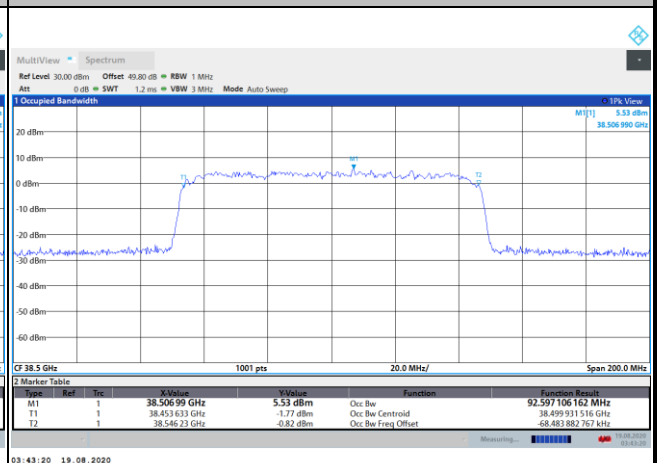
Lowest Channel / 100MHz / 64QAM



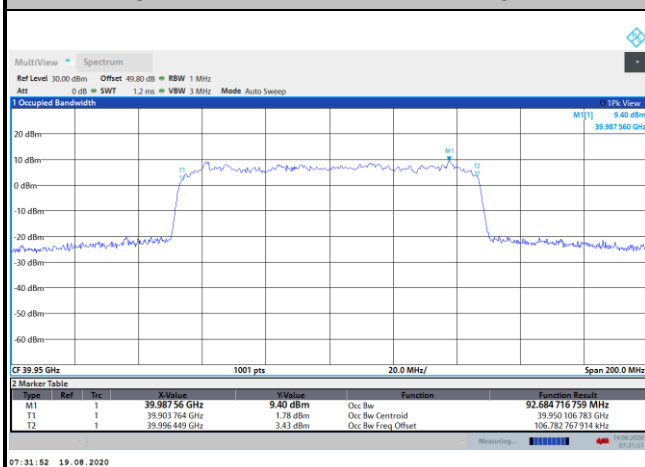
Middle Channel / 100MHz / 16QAM



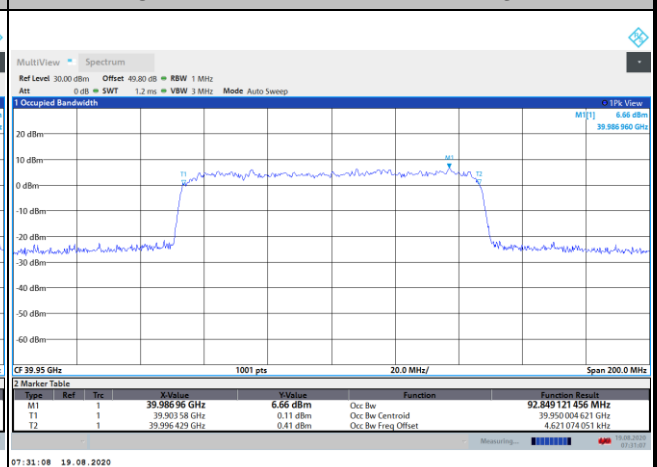
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM



**Radiated Out of Band Emissions**

Mode			DFT-s-OFDM Module 0 NR Band n260 : BE (dBm) 1 RB							
BW			50MHz				100MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-16.73	-15.68	-16.38	-18.26	-19.77	-17.94	-17.57	-19.55
	>10%OB	≤ -13	-34.24	-33.73	-33.97	-35.05	-35.45	-34.93	-35.47	-36.01
High CH	0~10%OB	≤ -5	-18.59	-16.52	-18.07	-21.09	-19.06	-17.74	-19.82	-21.29
	>10%OB	≤ -13	-31.61	-30.55	-31.24	-33.37	-33.3	-32.07	-33.02	-33.38
Result			Compliance							

Mode			CP-OFDM Module 0 NR Band n260 : BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-18.63	-15.63	-19.76	-20.61	-20.21	-21.85
	>10%OB	≤ -13	-34.69	-34.51	-35.57	-35.82	-36.08	-35.96
High CH	0~10%OB	≤ -5	-18.49	-20.78	-22.73	-19.94	-18.46	-22.75
	>10%OB	≤ -13	-32.14	-32.60	-33.74	-32.71	-33.52	-34.04
Result			Compliance					

Mode			DFT-s-OFDM Module 0 NR Band n260 : BE (dBm) Full RB							
BW			50MHz				100MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-28.23	-24.38	-26.78	-30.93	-31.2	-28.35	-30.81	-33.28
	>10%OB	≤ -13	-33.69	-27.85	-31.07	-34.77	-35.10	-30.53	-33.31	-35.43
High CH	0~10%OB	≤ -5	-29.39	-26.14	-27.70	-29.86	-33.92	-31.64	-32.27	-33.51
	>10%OB	≤ -13	-32.48	-28.39	-30.01	-32.28	-33.71	-32.47	-32.74	-33.99
Result			Compliance							

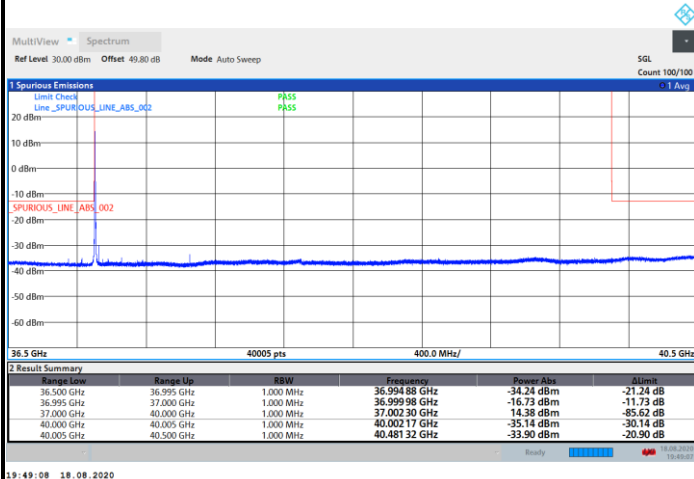
Mode			CP-OFDM Module 0 NR Band n260 : BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-25.59	-28.18	-31.85	-28.85	-31.19	-34.19
	>10%OB	≤ -13	-27.87	-31.75	-35.07	-31.36	-33.66	-35.88
High CH	0~10%OB	≤ -5	-27.22	-27.69	-29.84	-28.14	-29.30	-31.86
	>10%OB	≤ -13	-29.54	-29.15	-32.64	-30.47	-31.59	-33.50
Result			Compliance					



DFT-s-OFDM Module 0

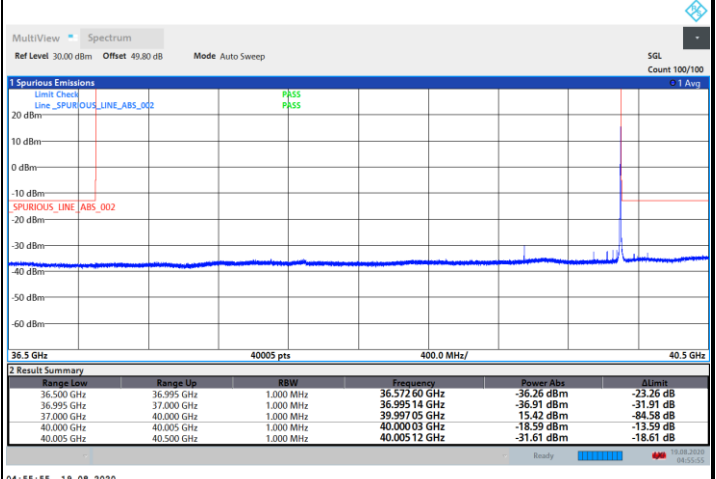
NR Band n260 / 50MHz / BPSK

Lowest Band Edge / 1 RB



19:49:08 18.08.2020

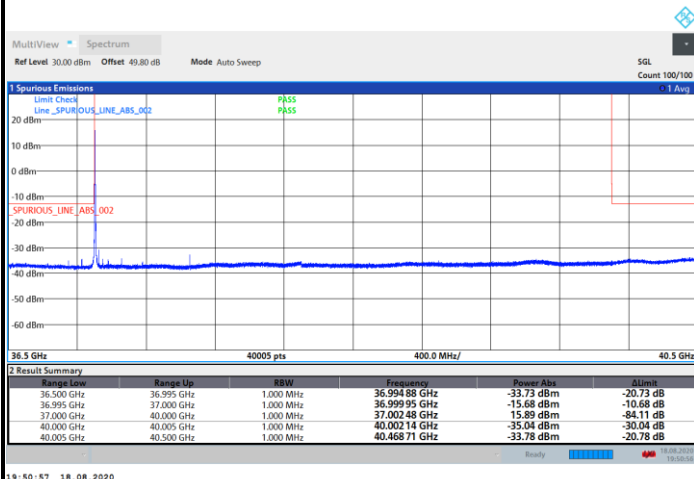
Highest Band Edge / 1 RB



04:55:55 19.08.2020

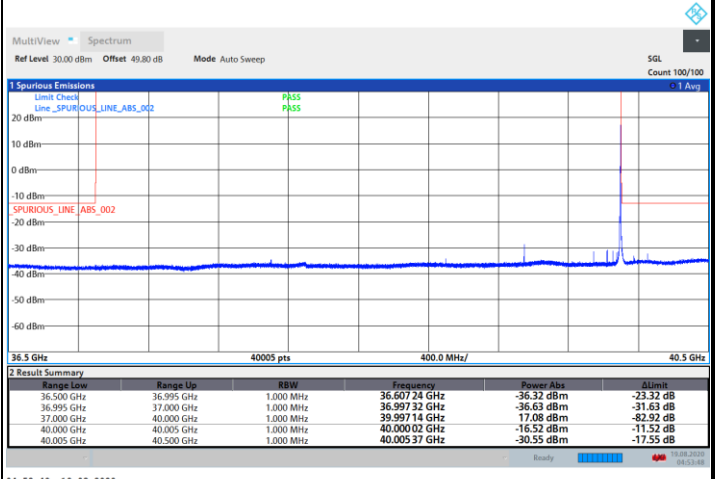
NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB



19:50:57 18.08.2020

Highest Band Edge / 1 RB



04:53:49 19.08.2020