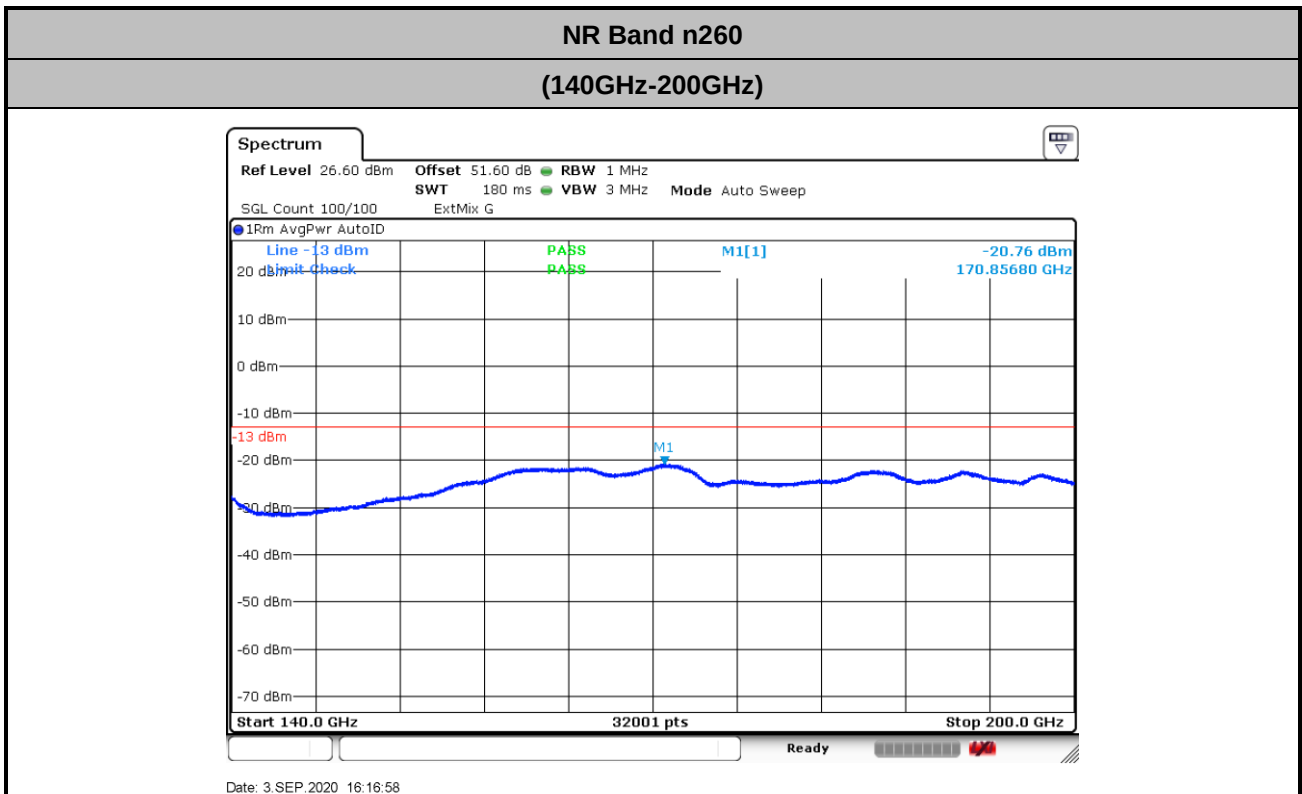




Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

$$= 53.4 + 2 + 107 + 20\log(0.5) - 104.8 = 51.6 \text{ (dB)}$$

**NR Band n260 Module 2 AG0+1****Occupied Bandwidth**

Mode	DFT-s-OFDM Module 2 NR Band n260 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.25	-	-	90.37	-	-
Middle CH	45.29	45.35	45.42	90.48	90.54	90.52
Highest CH	45.23	-	-	90.39	-	-

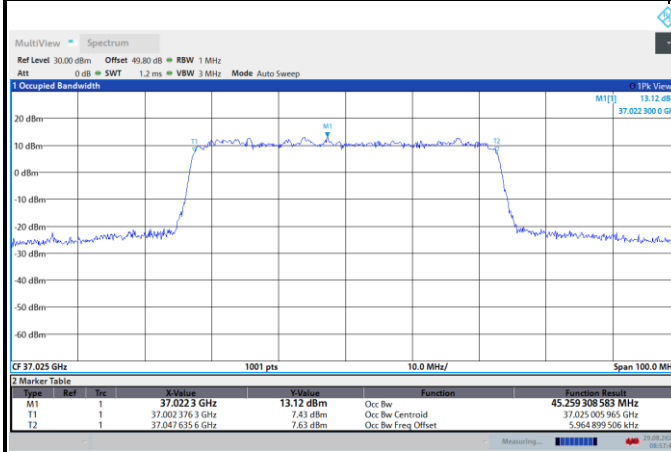
Mode	CP-OFDM Module 2 NR Band n260 : 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.23	-	-	93.04	-	-
Middle CH	45.37	45.58	45.30	90.07	92.72	92.80
Highest CH	45.43	-	-	93.05	-	-



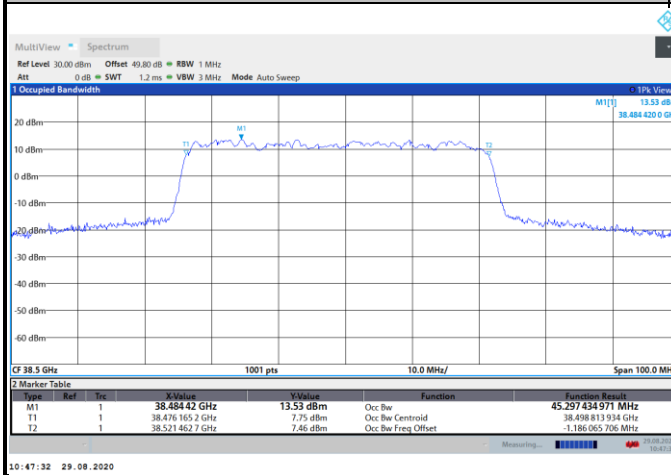
DFT-s-OFDM Module 2

NR Band n260

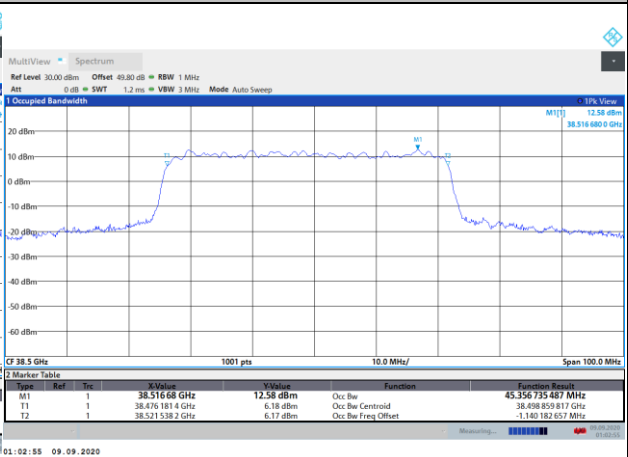
Lowest Channel / 50MHz / QPSK



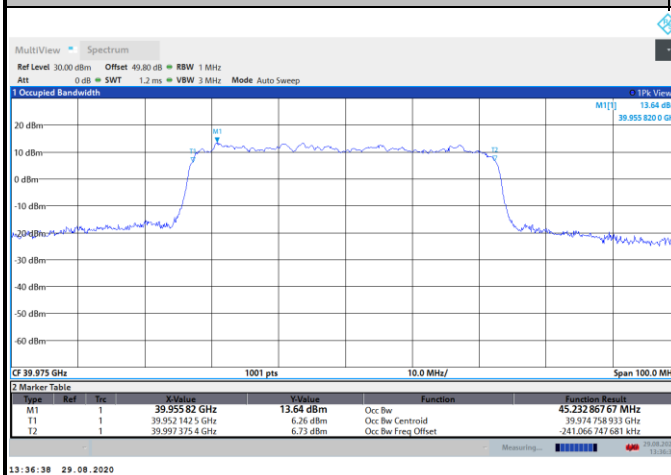
Middle Channel / 50MHz / QPSK



Middle Channel / 50MHz / 16QAM

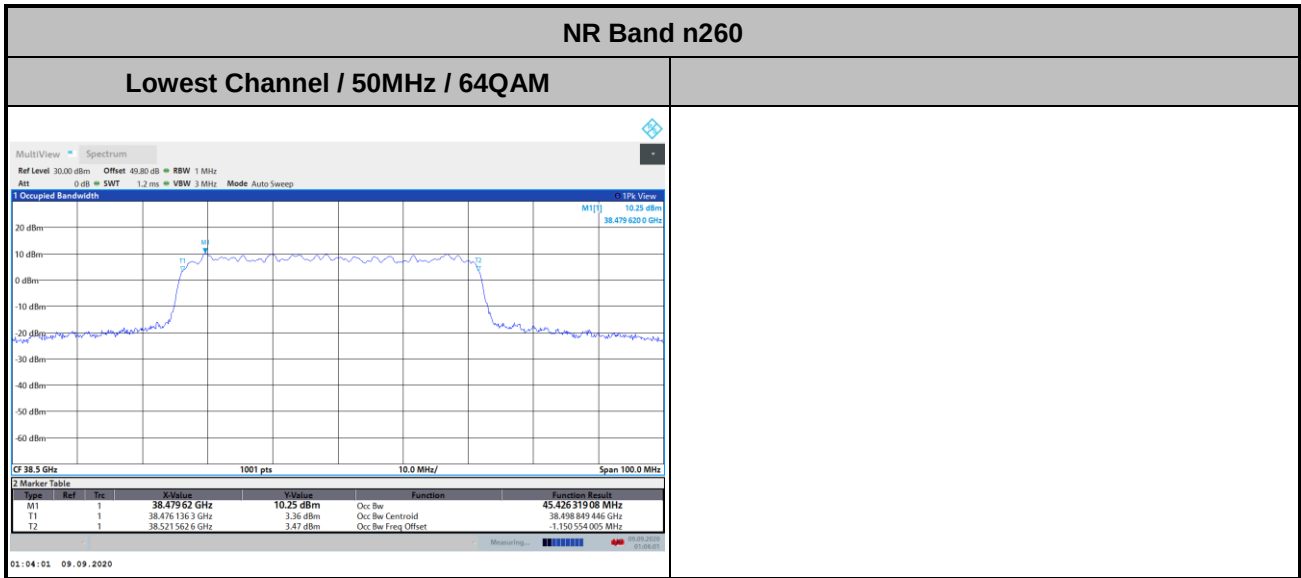


Highest Channel / 50MHz / QPSK





DFT-s-OFDM Module 2

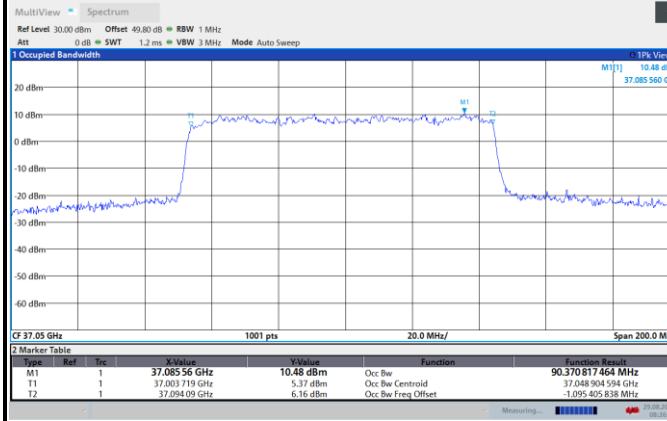




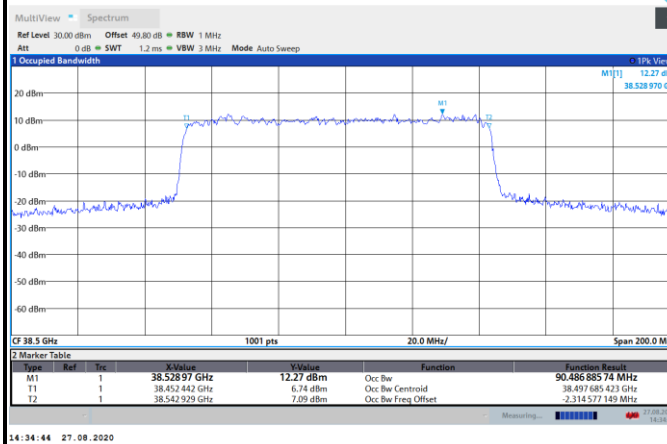
DFT-s-OFDM Module 2

NR Band n260

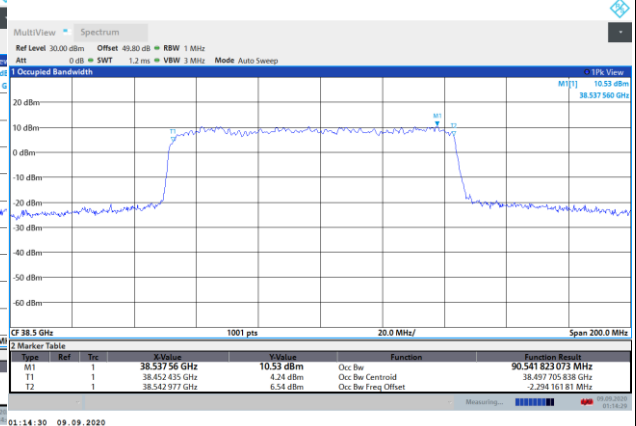
Lowest Channel / 100MHz / QPSK



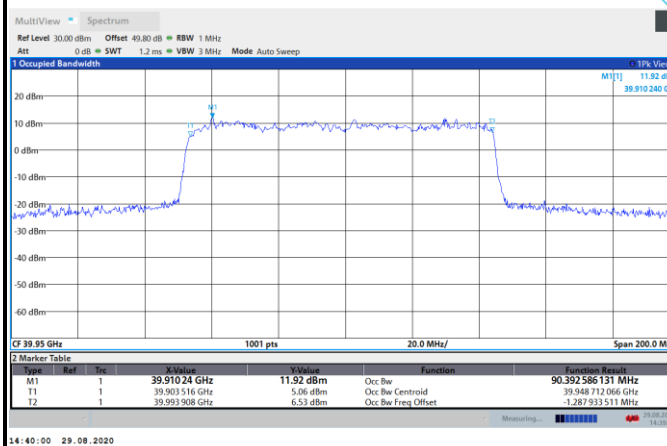
Middle Channel / 100MHz / QPSK



Middle Channel / 100MHz / 16QAM

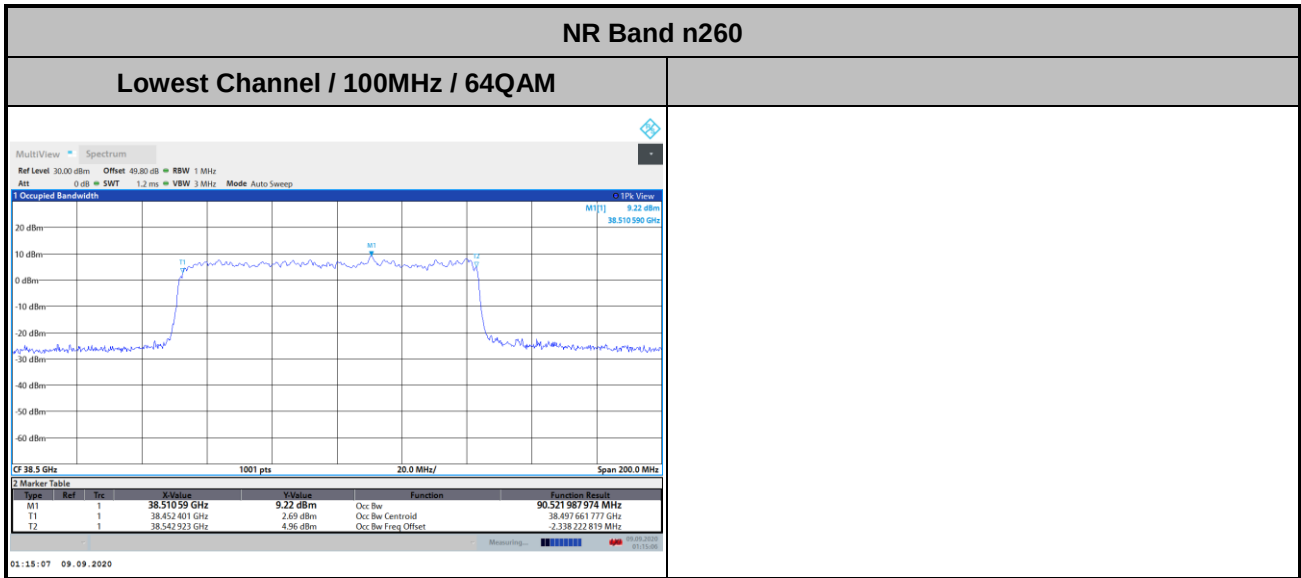


Highest Channel / 100MHz / QPSK





DFT-s-OFDM Module 2

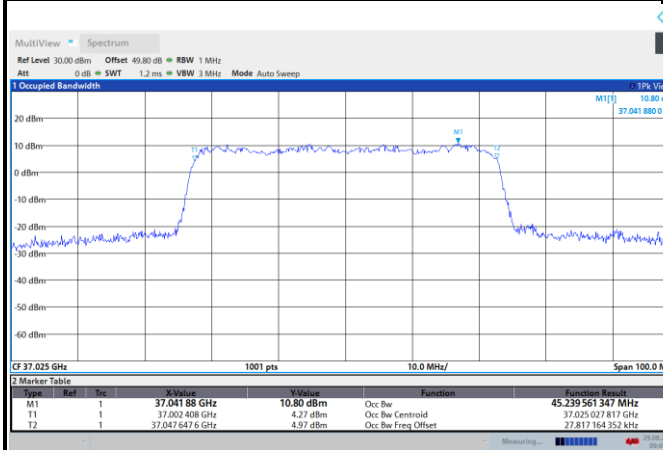




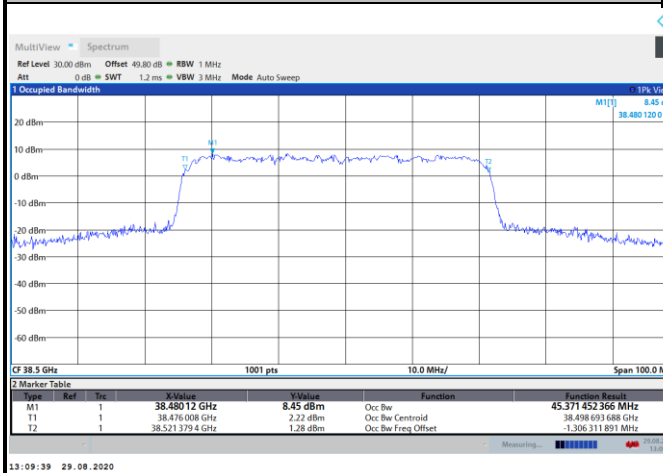
CP-OFDM Module 2

NR Band n260

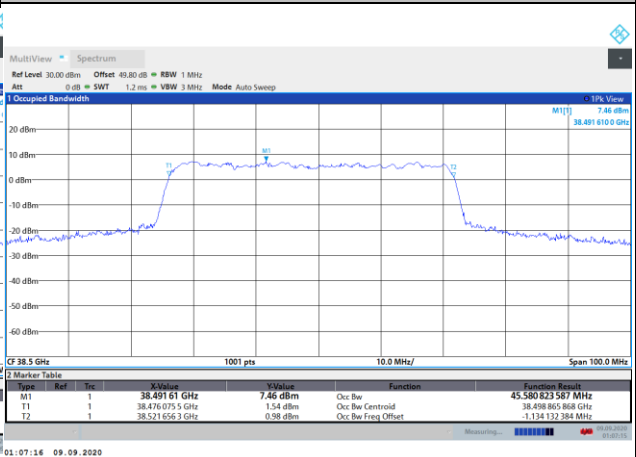
Lowest Channel / 50MHz / QPSK



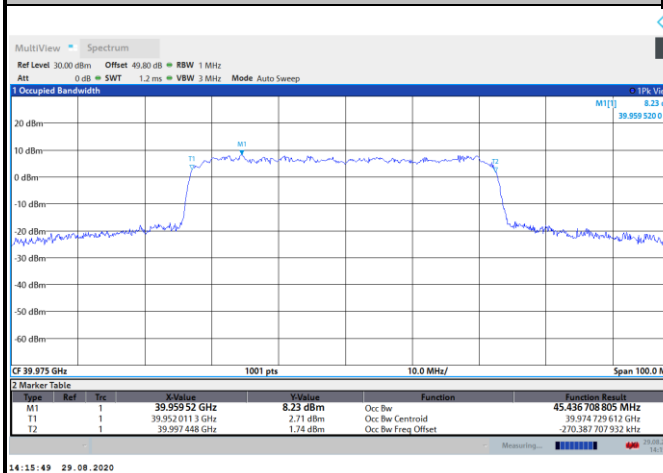
Middle Channel / 50MHz / QPSK



Middle Channel / 50MHz / 16QAM

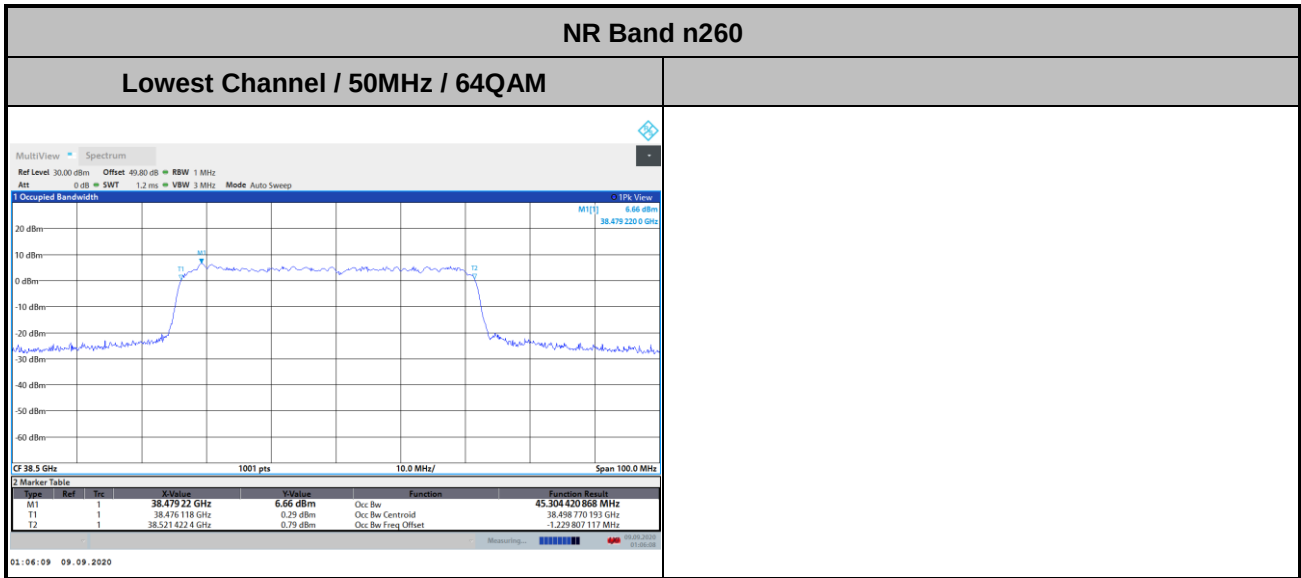


Highest Channel / 50MHz / QPSK





CP-OFDM Module 2

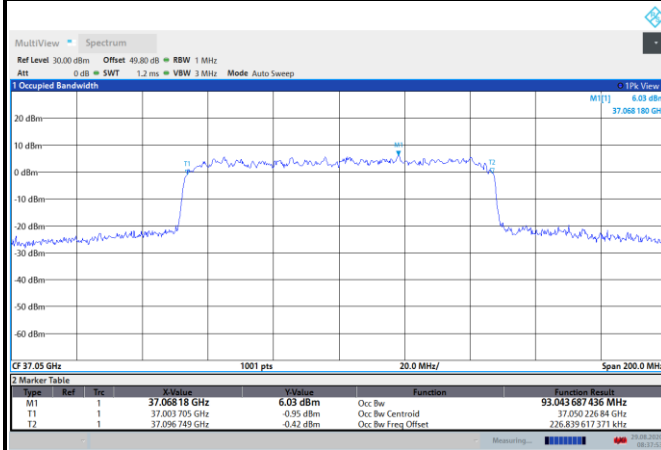




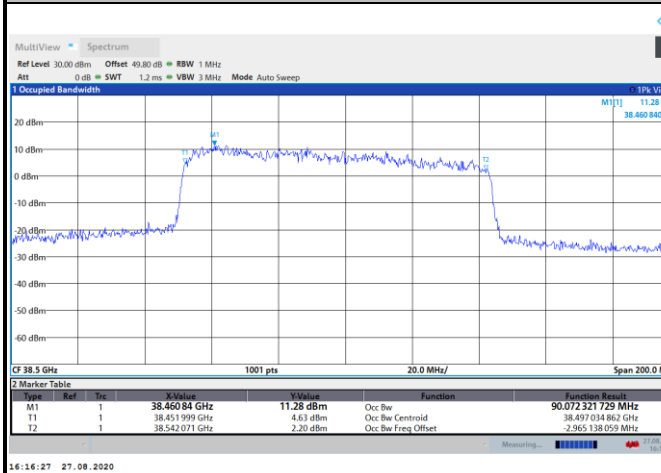
CP-OFDM Module 2

NR Band n260

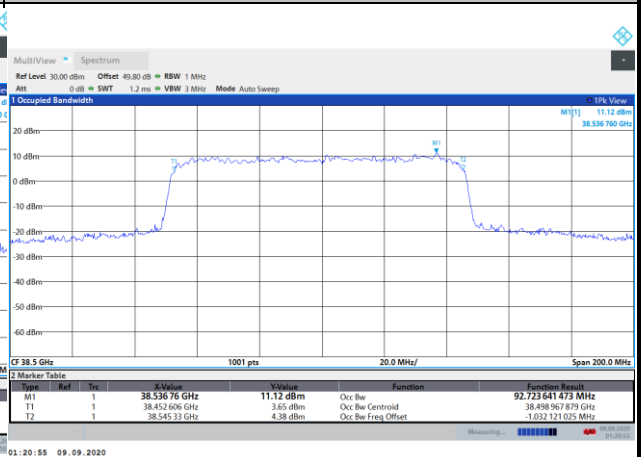
Lowest Channel / 100MHz / QPSK



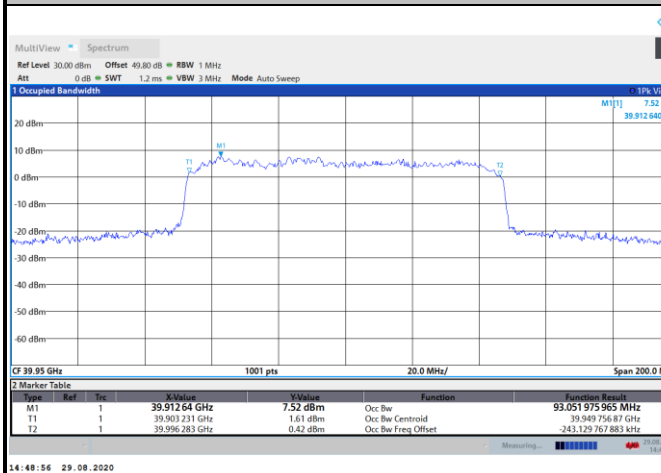
Middle Channel / 100MHz / QPSK



Middle Channel / 100MHz / 16QAM

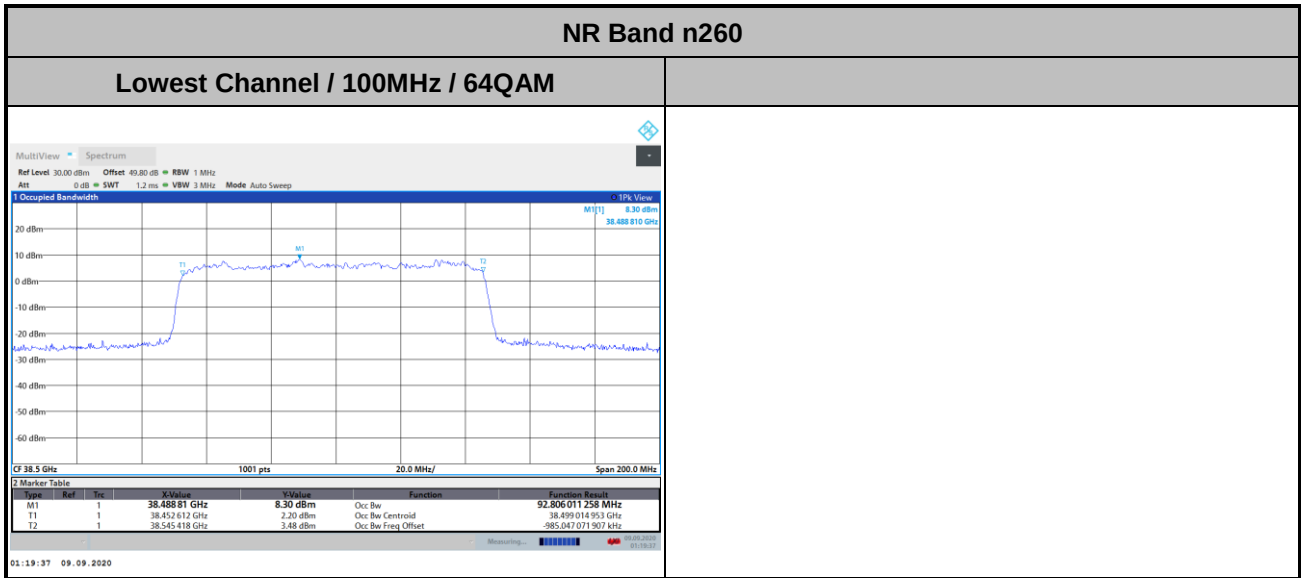


Highest Channel / 100MHz / QPSK





CP-OFDM Module 2



**Radiated Out of Band Emissions**

Mode			DFT-s-OFDM Module 2 NR Band n260 : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-16.77	-14.36
	>10%OB	≤-13	-33.19	-33.45
High CH	0~10%OB	≤-5	-16.51	-16.6
	>10%OB	≤-13	-27.13	-28.97
Result			Compliance	

Mode			CP-OFDM Module 2 NR Band n260 : BE (dBm) 1 RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-18.84	-21.6
	>10%OB	≤-13	-34.22	-35.25
High CH	0~10%OB	≤-5	-21.20	-19.47
	>10%OB	≤-13	-31.41	-31.86
Result			Compliance	

Mode			DFT-s-OFDM Module 2 NR Band n260 : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-28.48	-28.3
	>10%OB	≤-13	-31.24	-31.04
High CH	0~10%OB	≤-5	-25.33	-28.3
	>10%OB	≤-13	-27.19	-29.05
Result			Compliance	

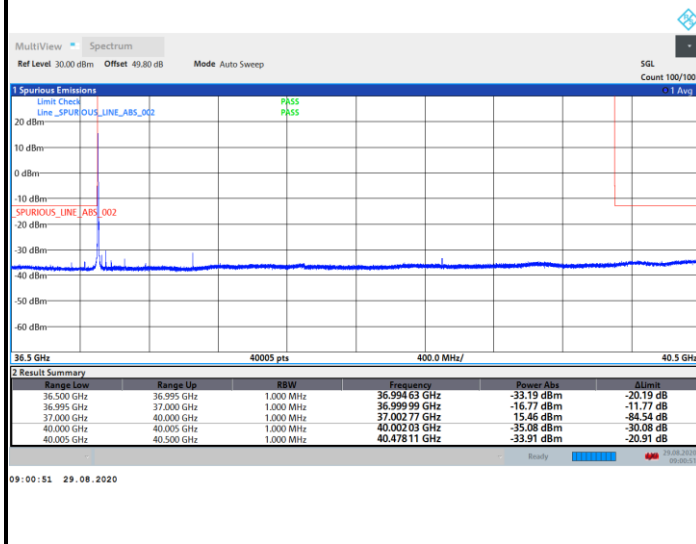
Mode			CP-OFDM Module 2 NR Band n260 : BE (dBm) Full RB	
BW			50MHz	100MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-29.7	-30.15
	>10%OB	≤-13	-31.93	-31.85
High CH	0~10%OB	≤-5	-27.38	-28.64
	>10%OB	≤-13	-29.03	-29.94
Result			Compliance	



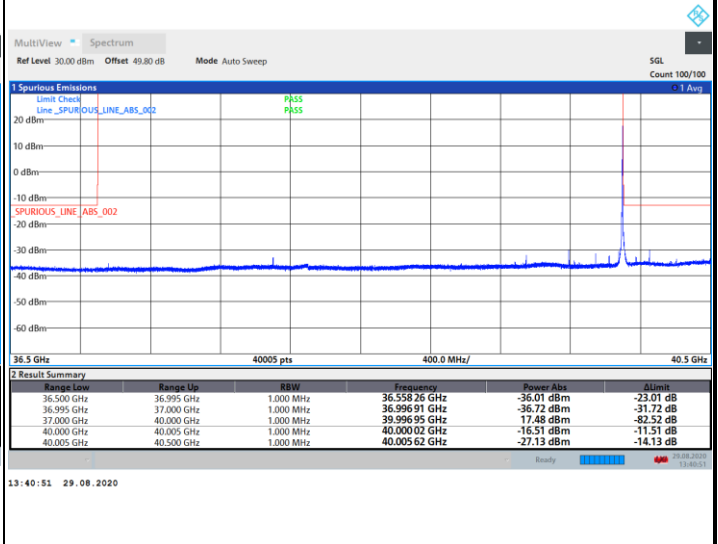
DFT-s-OFDM Module 2

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB



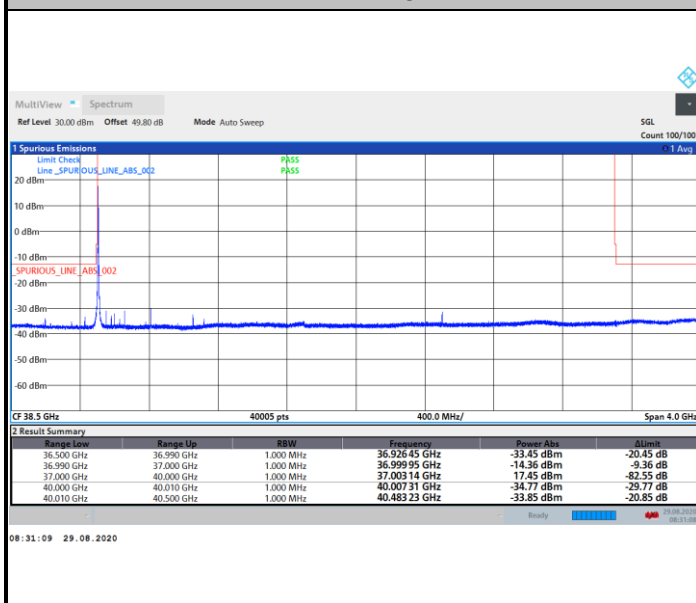
Highest Band Edge / 1 RB



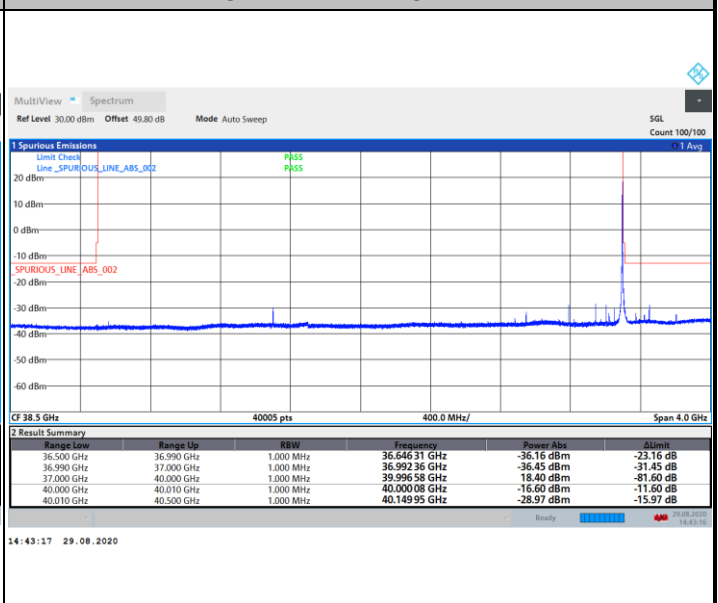
DFT-s-OFDM Module 2

NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

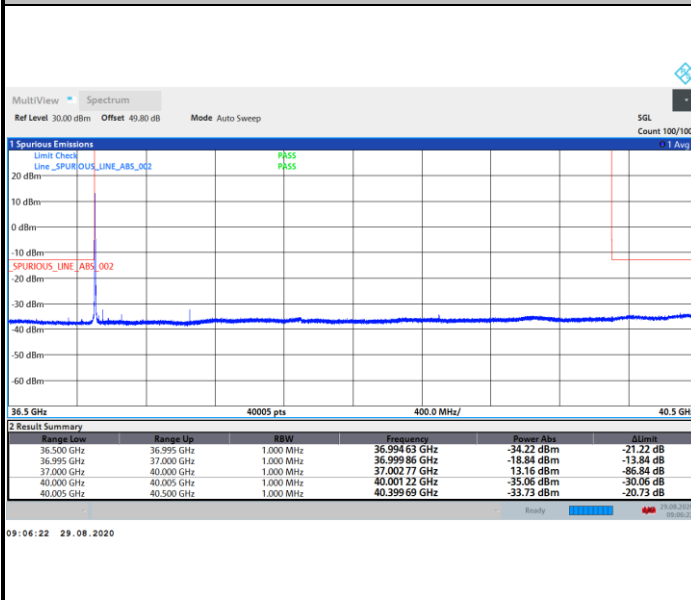




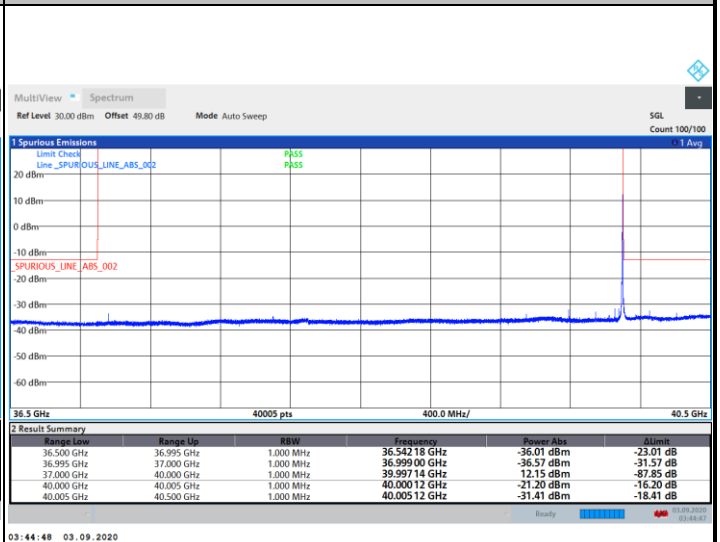
CP-OFDM Module 2

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB



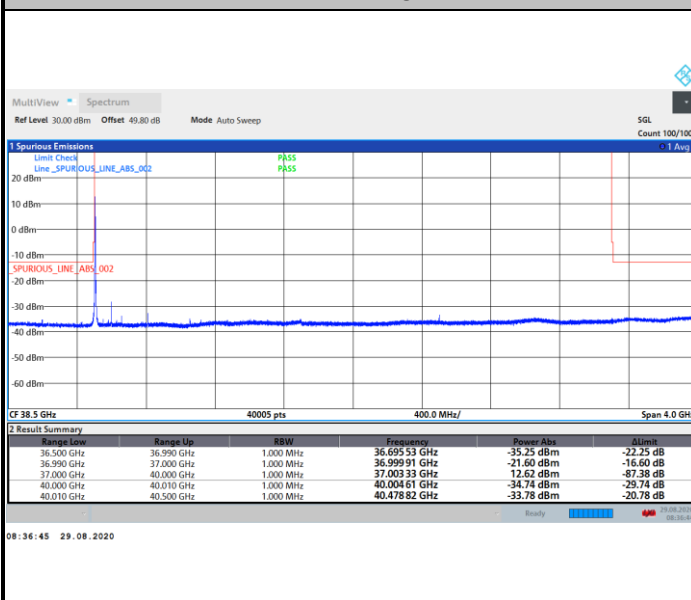
Highest Band Edge / 1 RB



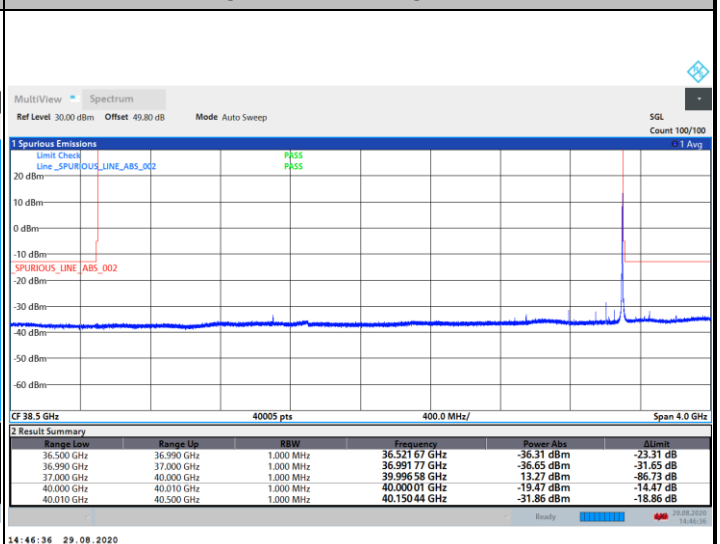
CP-OFDM Module 2

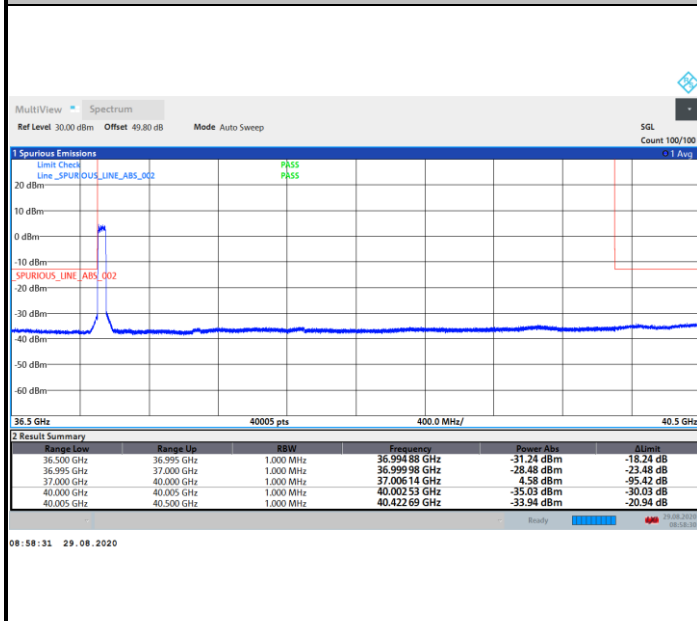
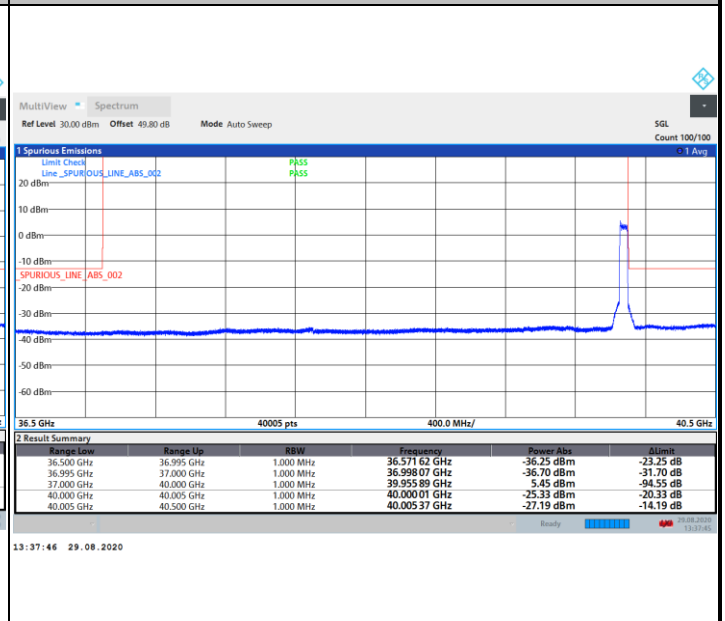
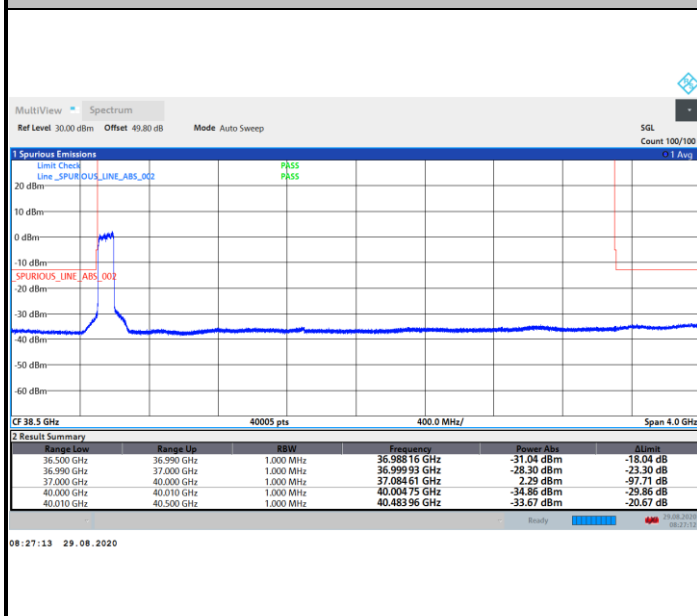
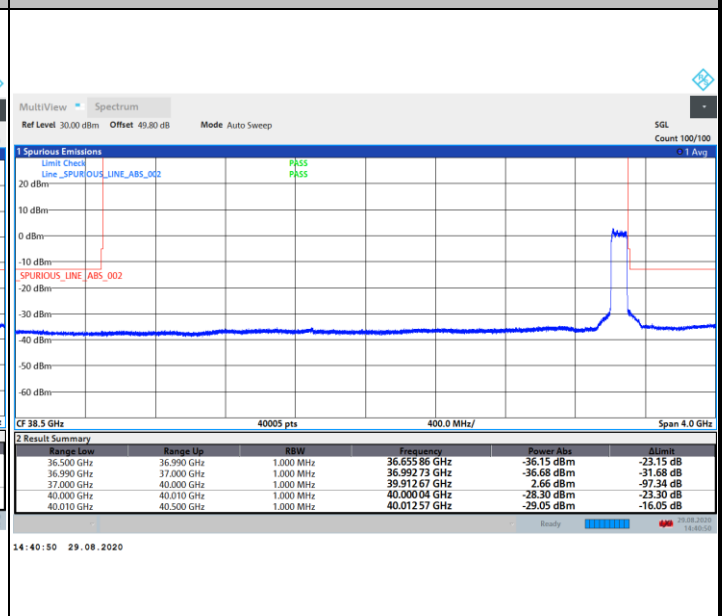
NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



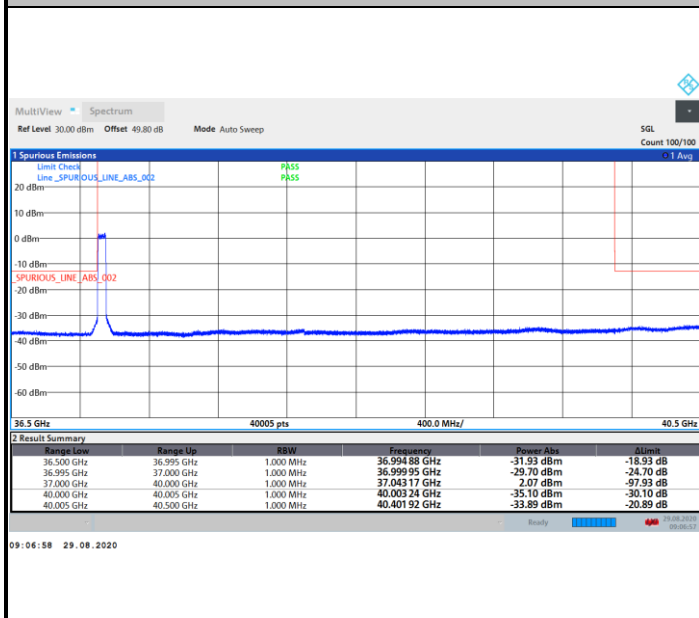
**DFT-s-OFDM Module 2****NR Band n260 / 50MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****DFT-s-OFDM Module 2****NR Band n260 / 100MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



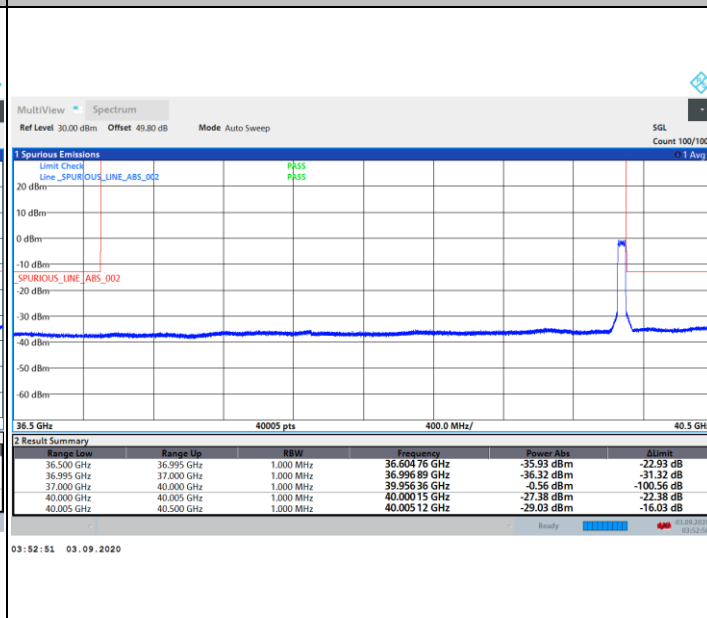
CP-OFDM Module 2

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB



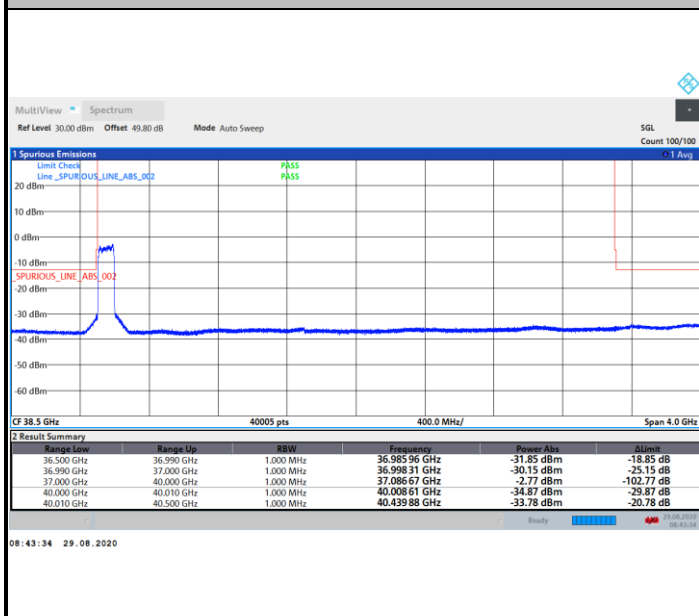
Highest Band Edge / Full RB



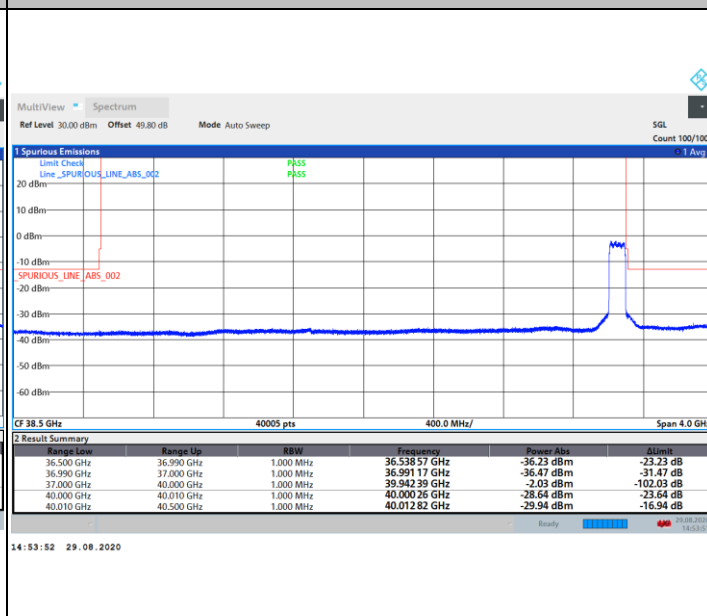
CP-OFDM Module 2

NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB

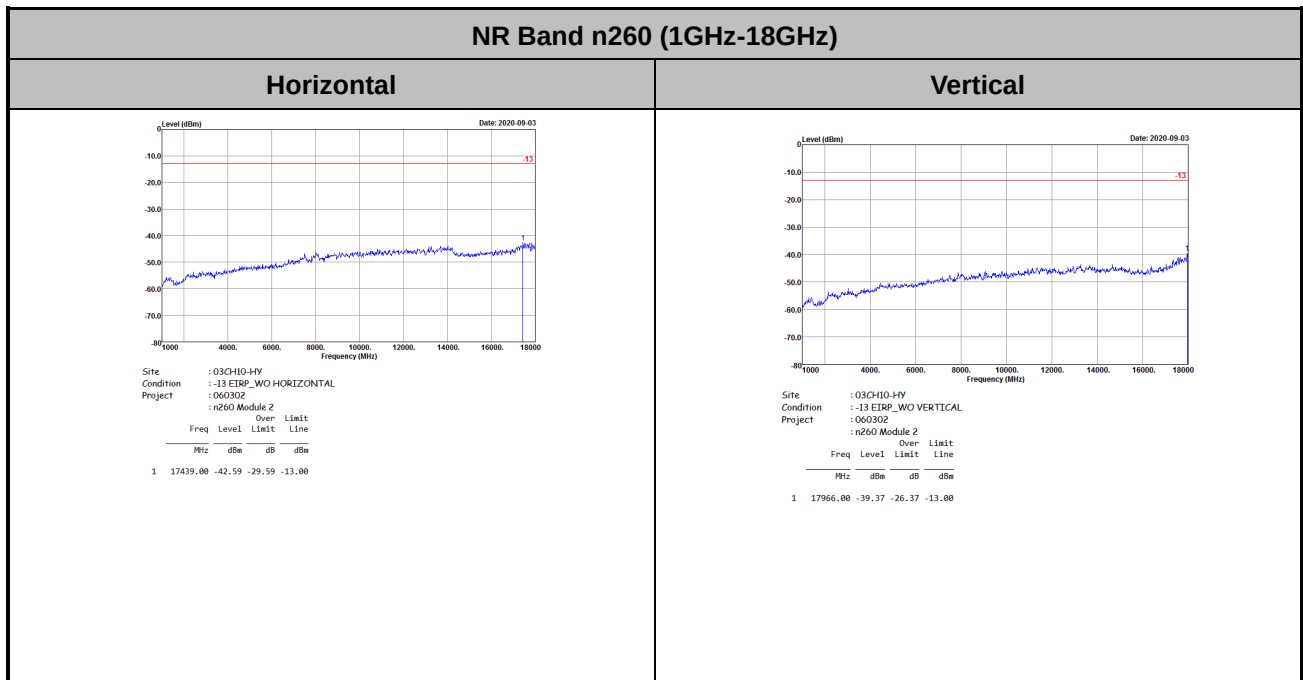
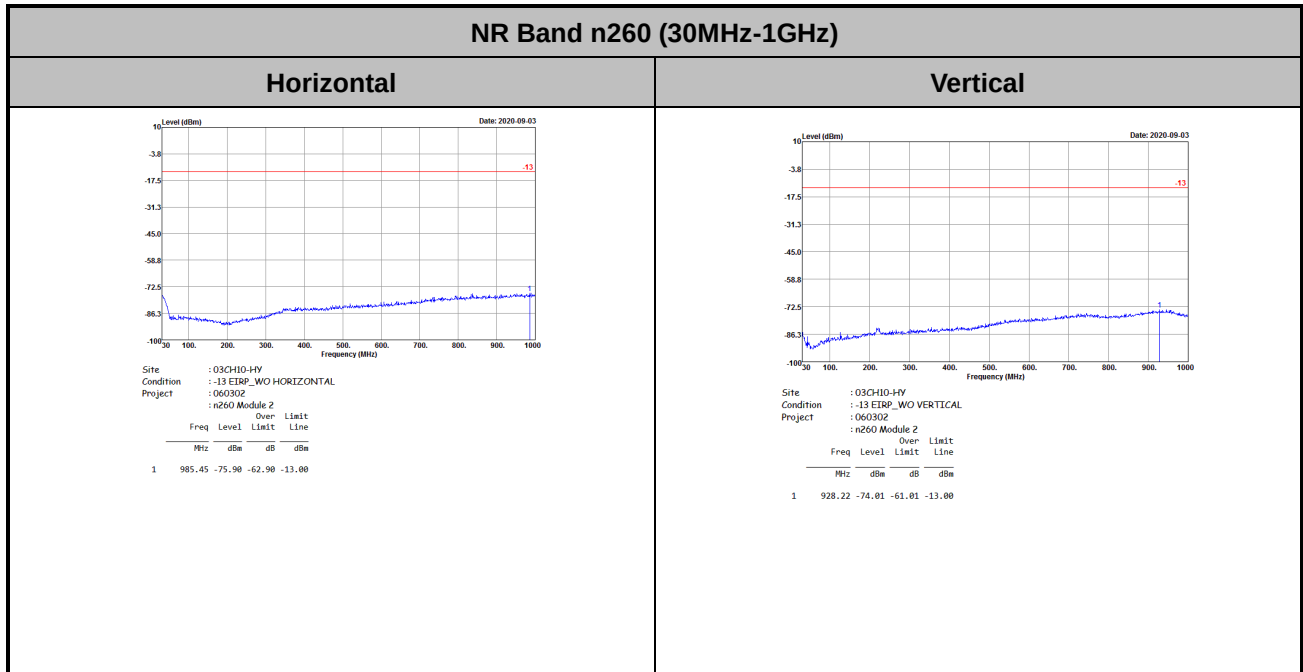


Highest Band Edge / Full RB



Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.
Only the noise floor is reported.





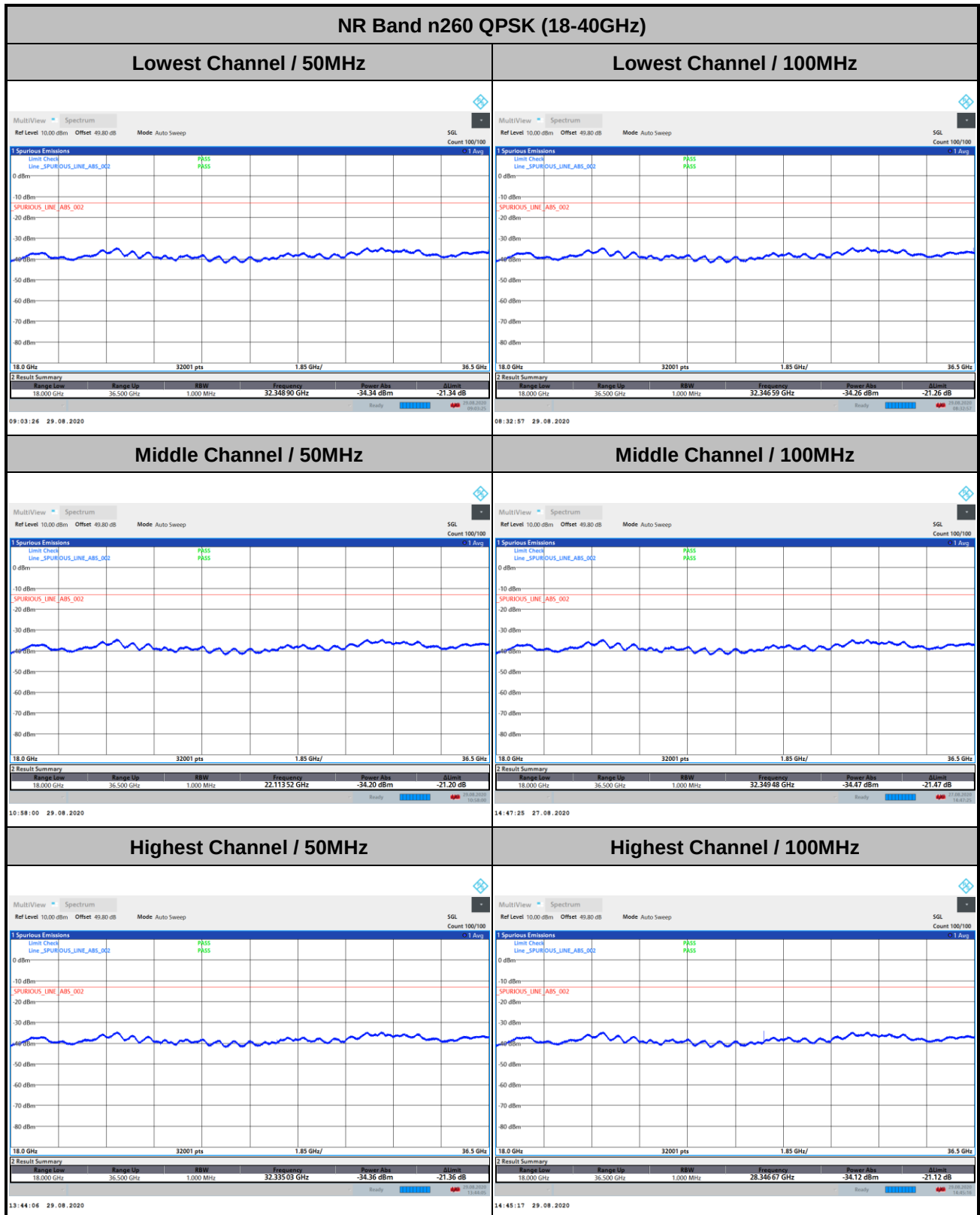
Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

DFT-s-OFDM Module 2



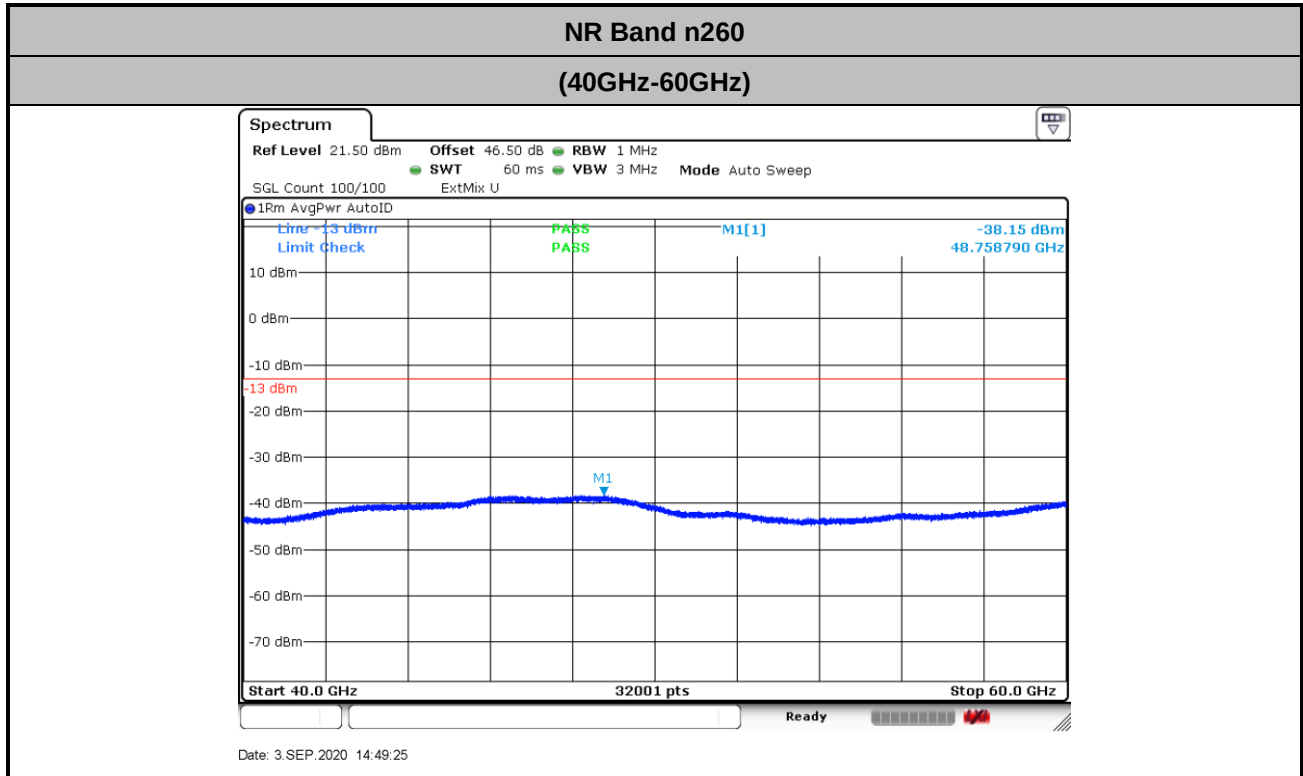


CP-OFDM Module 2





There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.
Only the noise floor is reported.



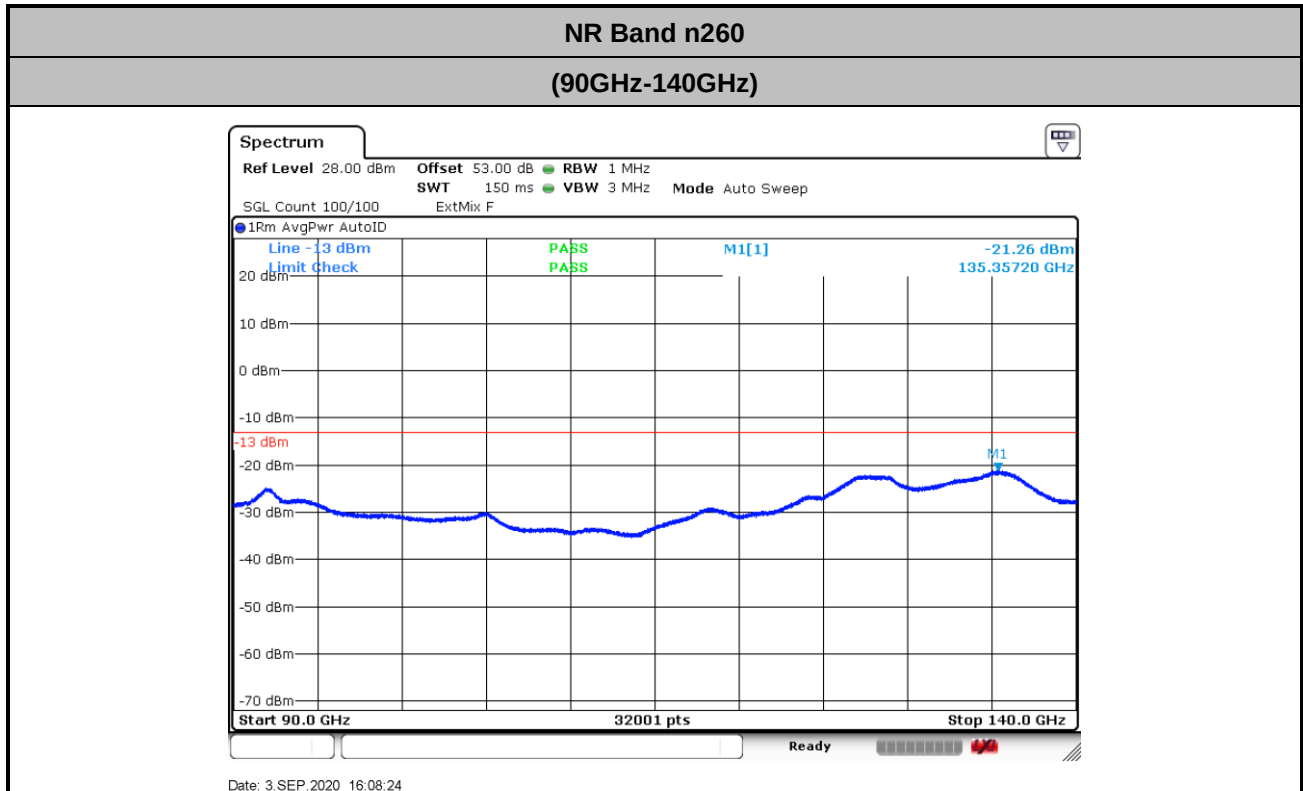
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.1 + 2.2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)} \end{aligned}$$



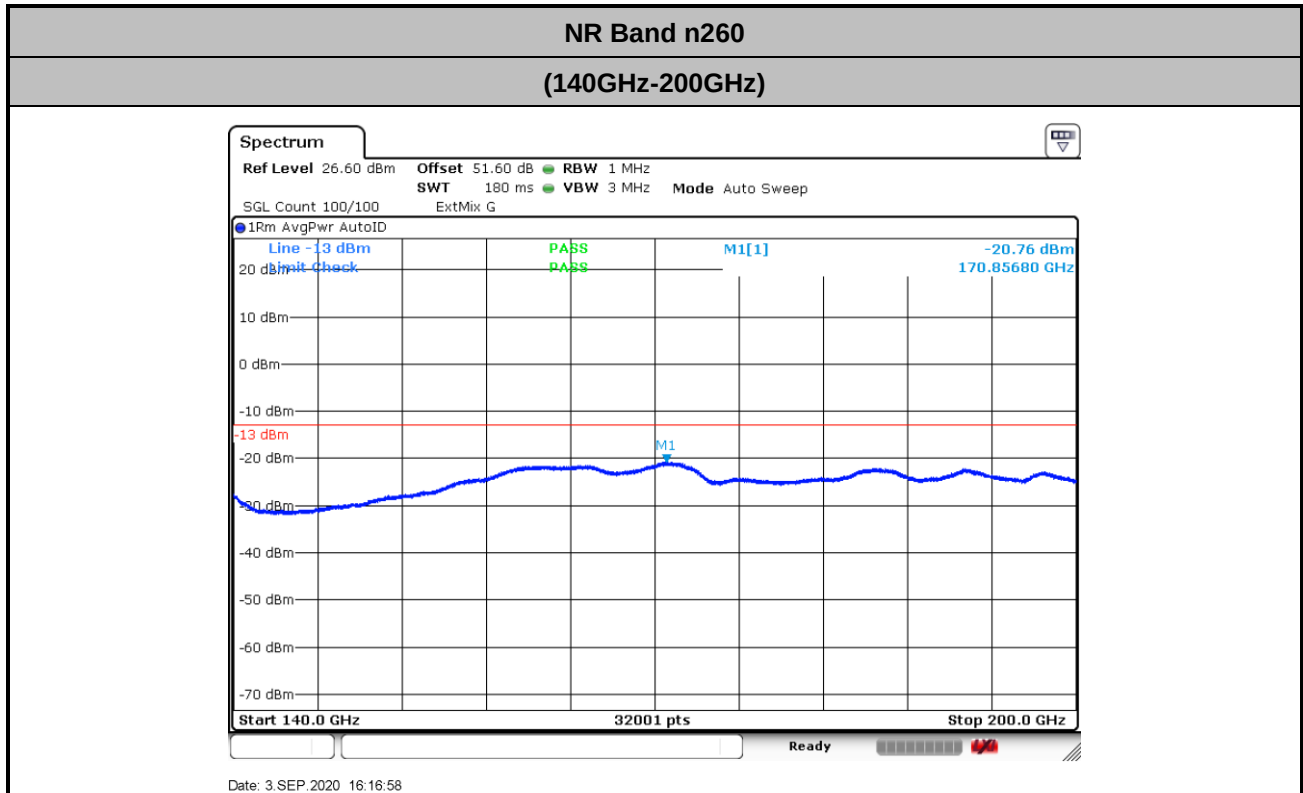
(60GHz-90GHz)



Page Number : A4 - 77 of 79



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 48.8 + 2 + 107 + 20\log(1) - 104.8 = 53 \text{ (dB)} \end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 53.4 + 2 + 107 + 20\log(0.5) - 104.8 = 51.6 \text{ (dB)}\end{aligned}$$

NR Band n260
Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.50027173	-271.728	7.058	PASS
40	Normal Voltage	38.50018282	-182.817	4.748	
30	Normal Voltage	38.50009191	-91.908	2.387	
20(Ref.)	Normal Voltage	38.5	0.000	0.000	
10	Normal Voltage	38.4999011	98.901	2.569	
0	Normal Voltage	38.49986114	138.861	3.607	
-10	Normal Voltage	38.49981119	188.811	4.904	
-20	Normal Voltage	38.49978022	219.780	5.709	
-30	Normal Voltage	38.49975025	249.750	6.487	
20	Maximum Voltage	38.50003097	-30.969	0.804	
20	Normal Voltage	38.49999201	7.992	0.208	
20	Battery End Point	38.49996603	33.966	0.882	

Note:

1. Normal Voltage =3.8 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 n261 Module 0 AG0****Occupied Bandwidth**

Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.32	-	-	90.76	-	-	385.92	-	-
Middle CH	45.44	45.4	45.4	90.64	90.64	90.52	387.36	387.36	389.60
Highest CH	45.48	-	-	90.68	-	-	387.52	-	-

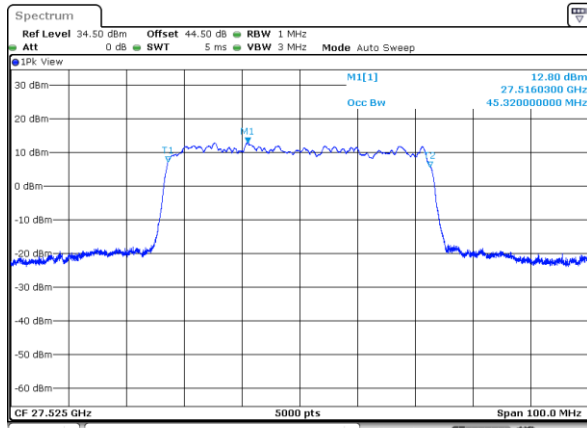
Mode	CP-OFDM Module 0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.46	-	-	93.04	-	-	387.52	-	-
Middle CH	45.60	45.46	45.34	93.32	92.80	92.76	388.00	386.40	389.12
Highest CH	45.40	-	-	92.84	-	-	388.00	-	-



DFT-s-OFDM Module 0

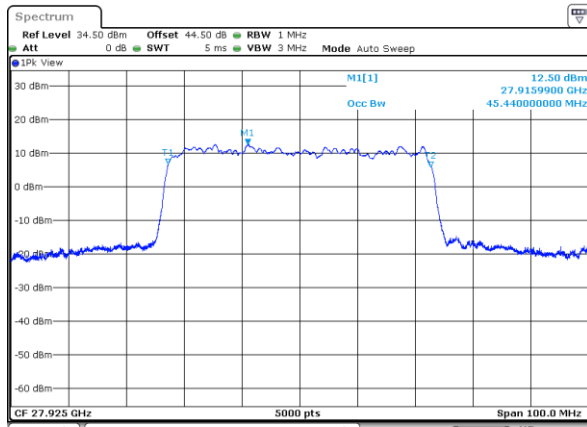
NR Band n261

Lowest Channel / 50MHz / QPSK



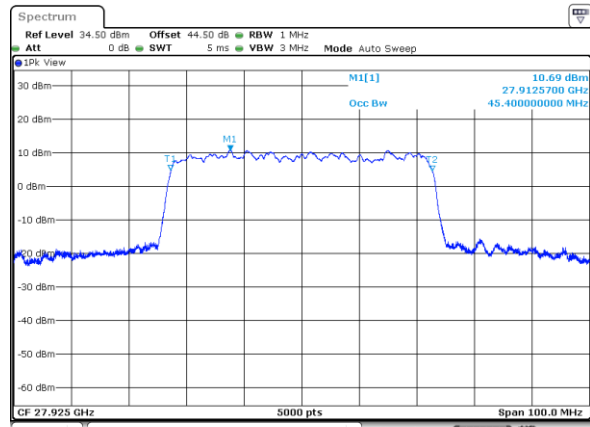
Date: 24.AUG.2020 22:43:46

Middle Channel / 50MHz / QPSK



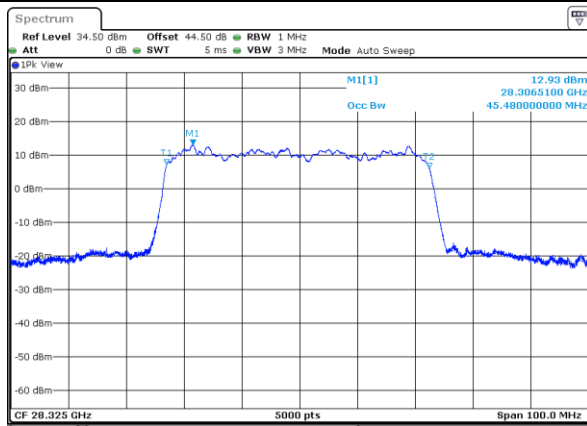
Date: 24.AUG.2020 22:06:07

Middle Channel / 50MHz / 16QAM



Date: 24.AUG.2020 22:06:32

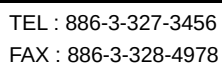
Highest Channel / 50MHz / QPSK



Date: 25.AUG.2020 02:48:55



DFT-s-OFDM Module 0





Lowest Channel / 100MHz / QPSK



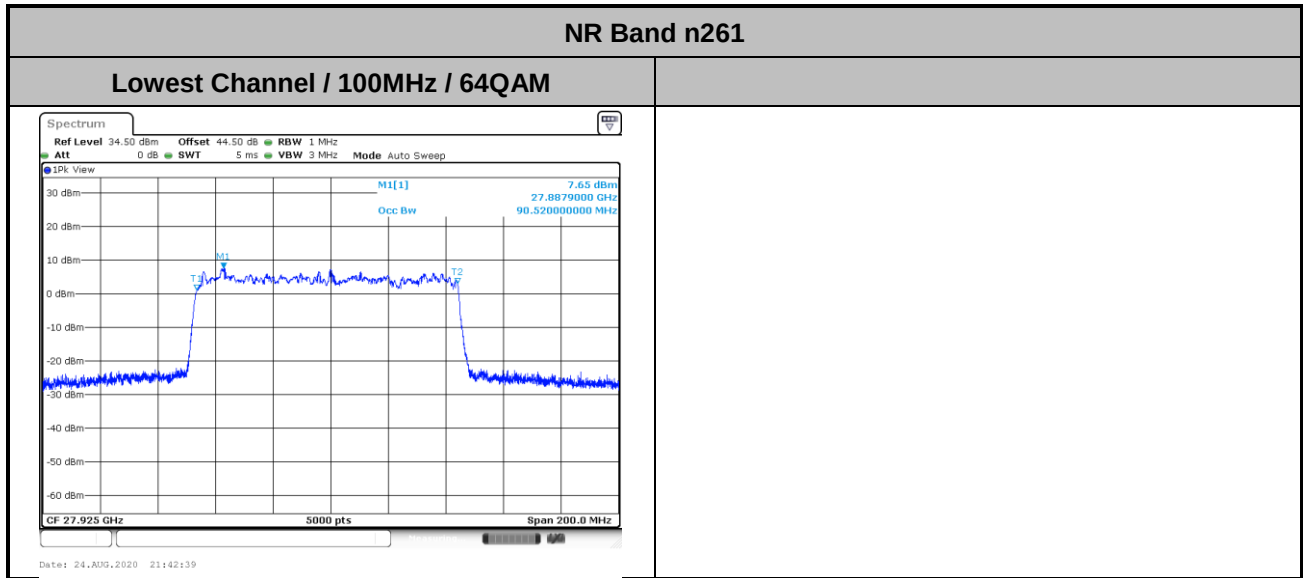
Middle Channel / 100MHz / 16QAM



Date: 25.AUG.2020 03:33:10



DFT-s-OFDM Module 0

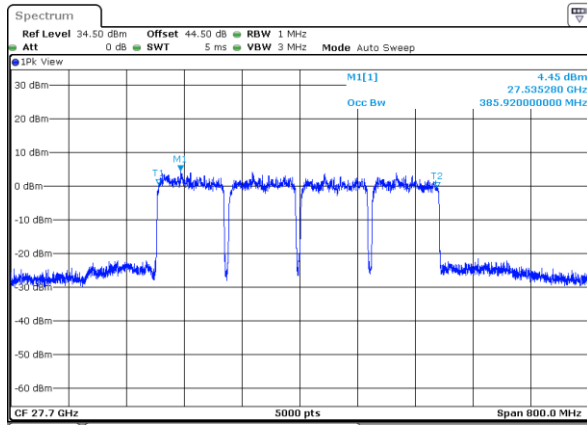




DFT-s-OFDM Module 0

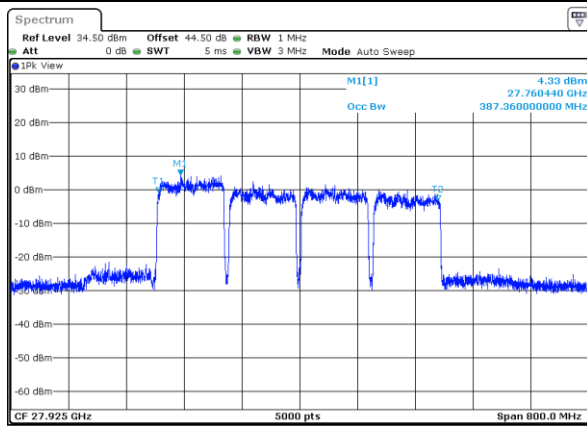
NR Band n261

Lowest Channel / 400MHz / QPSK



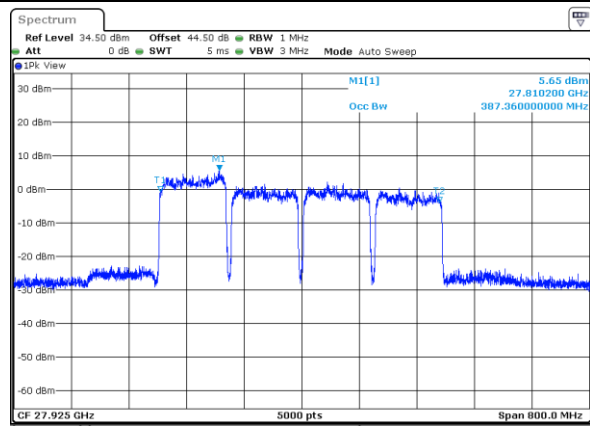
Date: 31.AUG.2020 15:50:14

Middle Channel / 400MHz / QPSK



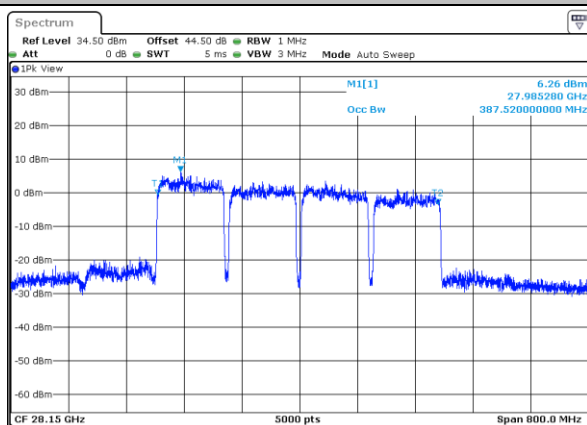
Date: 31.AUG.2020 16:56:06

Middle Channel / 400MHz / 16QAM



Date: 31.AUG.2020 16:56:22

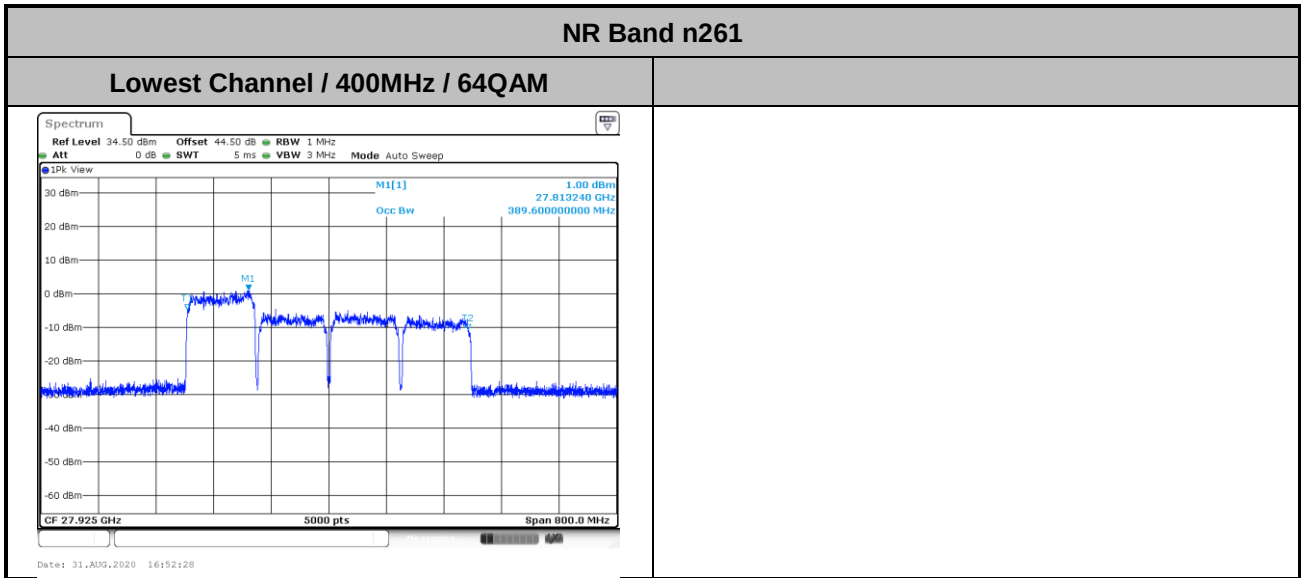
Highest Channel / 400MHz / QPSK



Date: 31.AUG.2020 17:57:01



DFT-s-OFDM Module 0

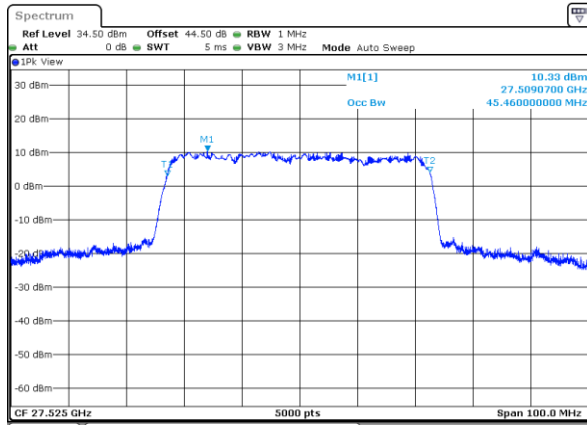




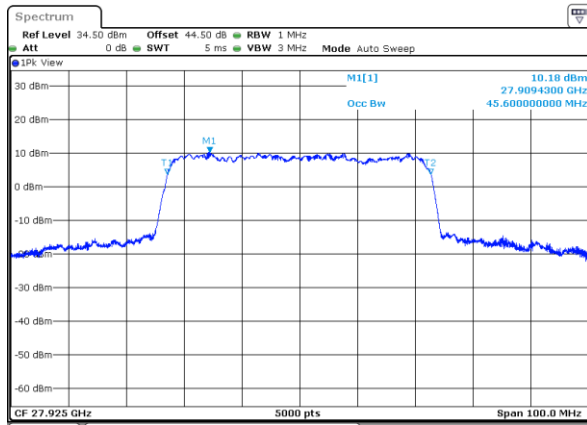
CP-OFDM Module 0

NR Band n261

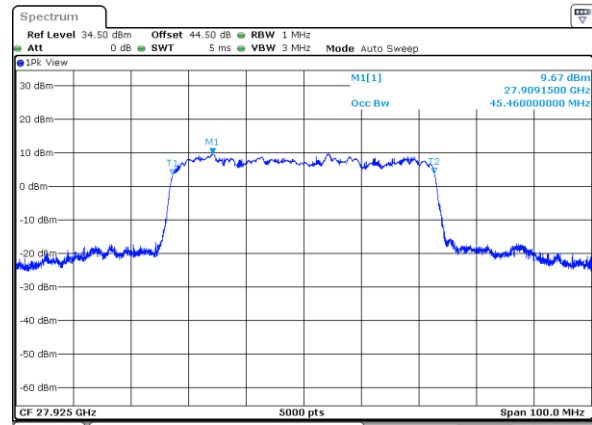
Lowest Channel / 50MHz / QPSK



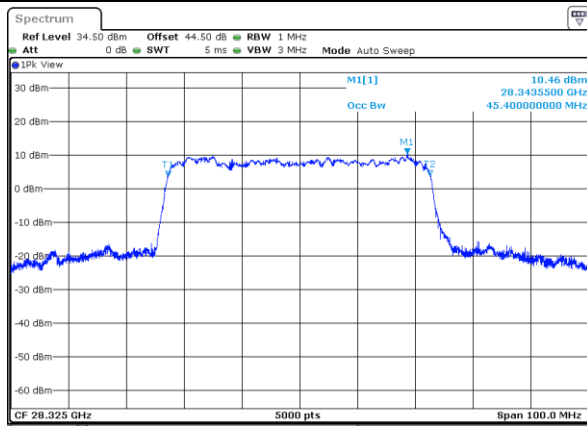
Middle Channel / 50MHz / QPSK



Middle Channel / 50MHz / 16QAM

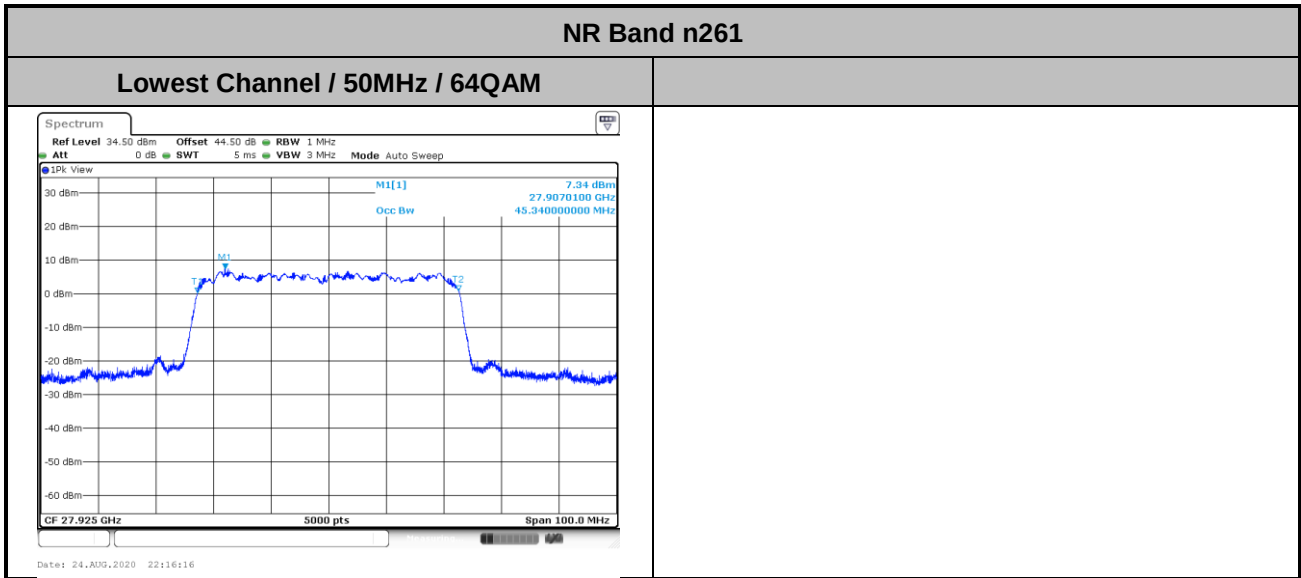


Highest Channel / 50MHz / QPSK





CP-OFDM Module 0

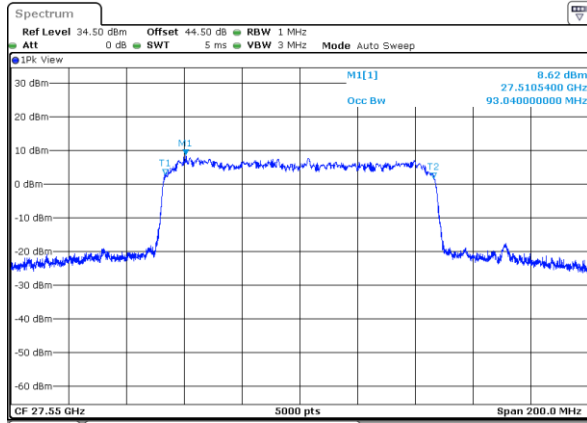




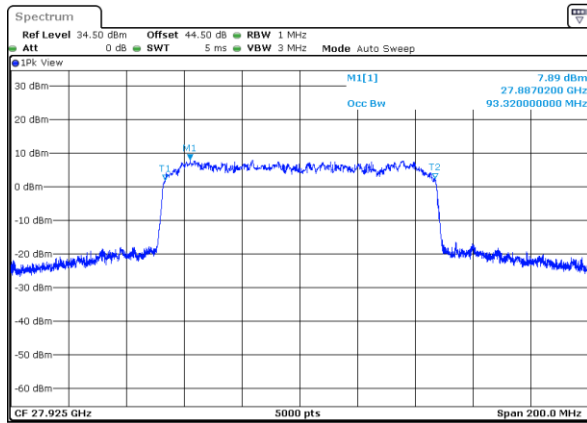
CP-OFDM Module 0

NR Band n261

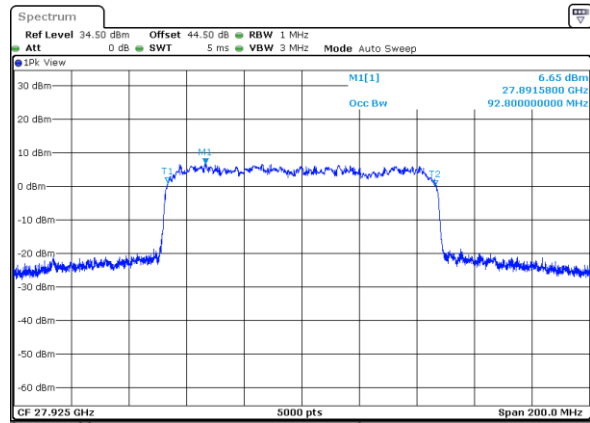
Lowest Channel / 100MHz / QPSK



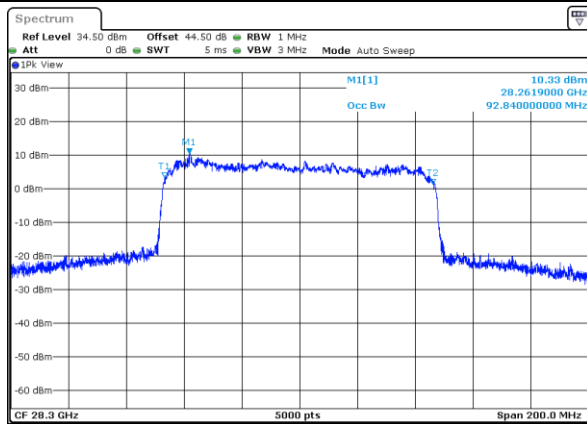
Middle Channel / 100MHz / QPSK



Middle Channel / 100MHz / 16QAM

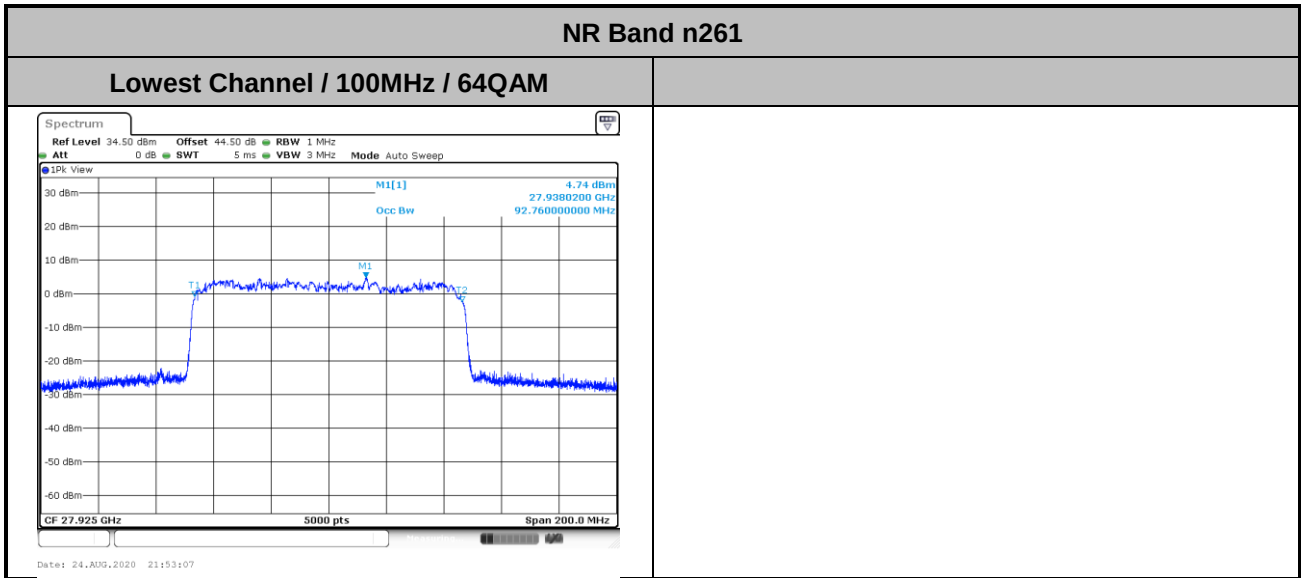


Highest Channel / 50MHz / QPSK





CP-OFDM Module 0

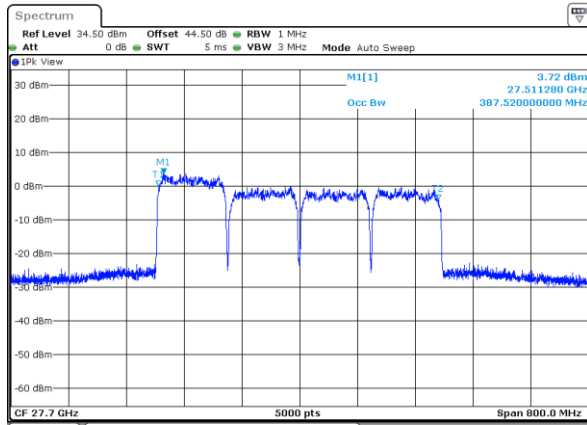




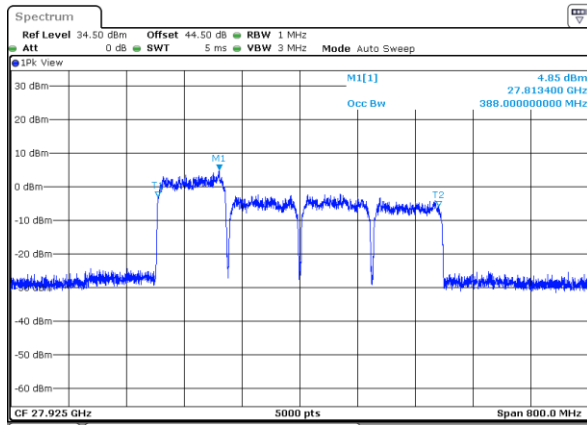
CP-OFDM Module 0

NR Band n261

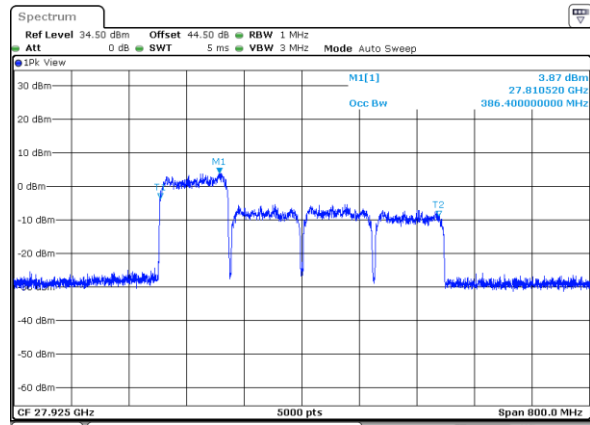
Lowest Channel / 400MHz / QPSK



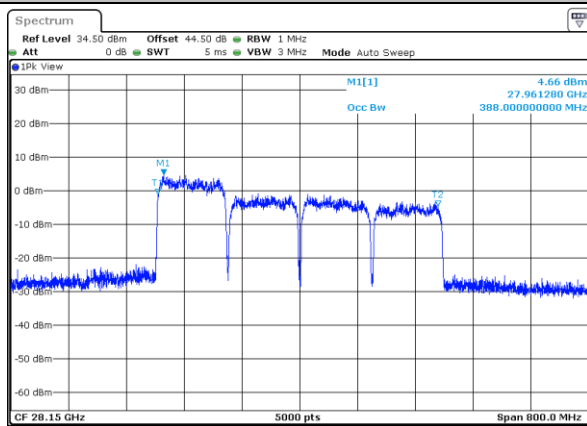
Middle Channel / 400MHz / QPSK



Middle Channel / 400MHz / 16QAM

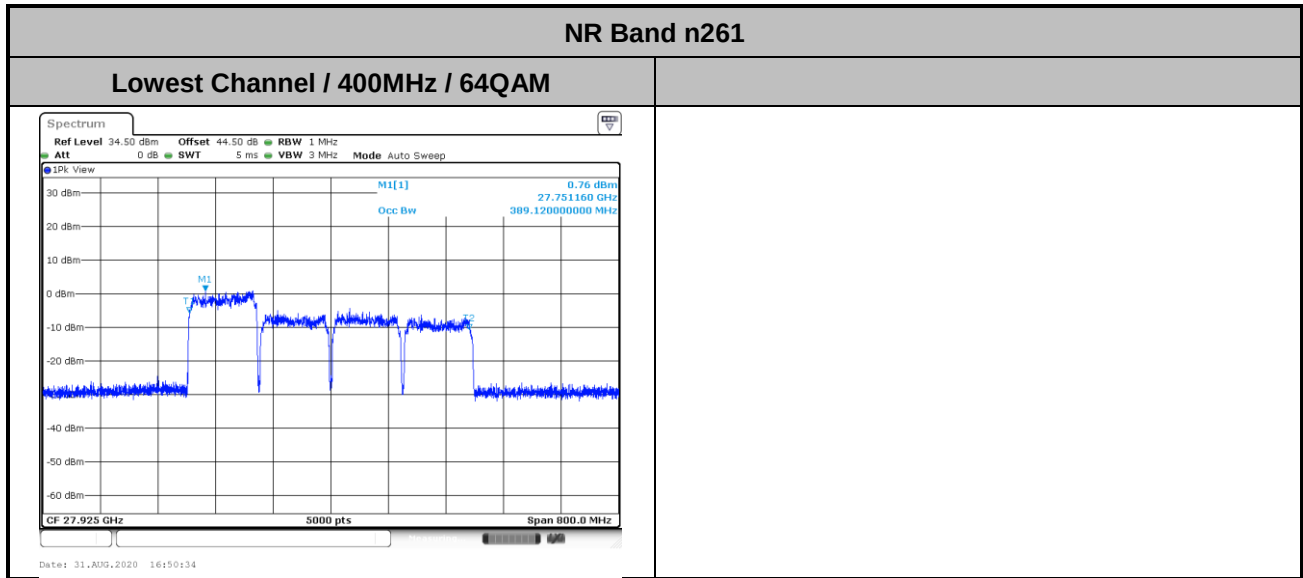


Highest Channel / 400MHz / QPSK





CP-OFDM Module 0



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB			
BW			50MHz	100MHz	400MHz	
Limit (dBm)			QPSK	QPSK	QPSK	
Low CH	0~10%OB	≤-5	-12.94	-15.32	-22.79	
	>10%OB	≤-13	-30.52	-30.88	-26.14	
High CH	0~10%OB	≤-5	-15.37	-15.3	-32.64	
	>10%OB	≤-13	-33.51	-33.78	-31.46	
Result			Compliance			

Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB			
BW			50MHz	100MHz	400MHz	
Limit (dBm)			QPSK	QPSK	QPSK	
Low CH	0~10%OB	≤-5	-15.1	-18.16	-23.02	
	>10%OB	≤-13	-32.11	-31.77	-24.96	
High CH	0~10%OB	≤-5	-18.71	-17.26	-32.81	
	>10%OB	≤-13	-34	-34.08	-32.29	
Result			Compliance			

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) Full RB			
BW			50MHz	100MHz	400MHz	
Limit (dBm)			QPSK	QPSK	QPSK	
Low CH	0~10%OB	≤-5	-25.05	-29.16	-30.64	
	>10%OB	≤-13	-27.62	-30.39	-31.02	
High CH	0~10%OB	≤-5	-25.43	-29.22	-32.05	
	>10%OB	≤-13	-32.28	-34.36	-33.00	
Result			Compliance			

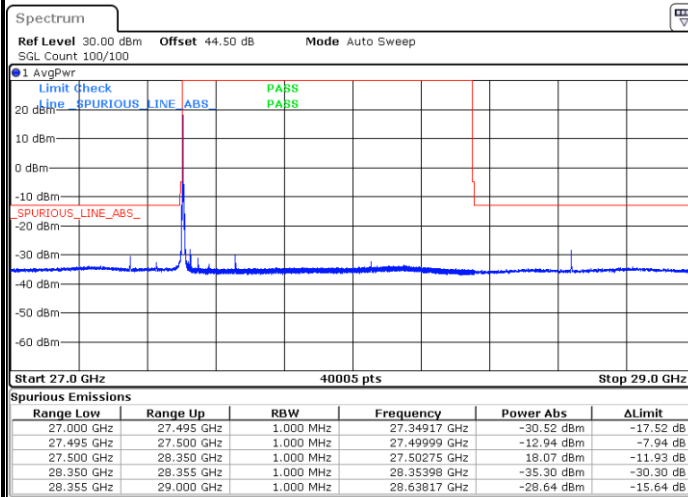
Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) Full RB			
BW			50MHz	100MHz	400MHz	
Limit (dBm)			QPSK	QPSK	QPSK	
Low CH	0~10%OB	≤-5	-25.25	-28.52	-32.08	
	>10%OB	≤-13	-27.59	-29.94	-32.66	
High CH	0~10%OB	≤-5	-24.75	-28.35	-33.96	
	>10%OB	≤-13	-32.82	-34.36	-33.05	
Result			Compliance			



DFT-s-OFDM Module 0

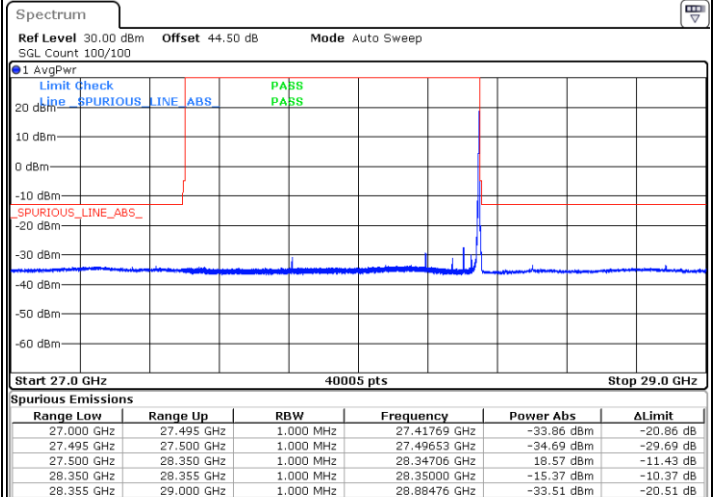
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Date: 24.AUG.2020 22:31:01

Highest Band Edge / 1 RB

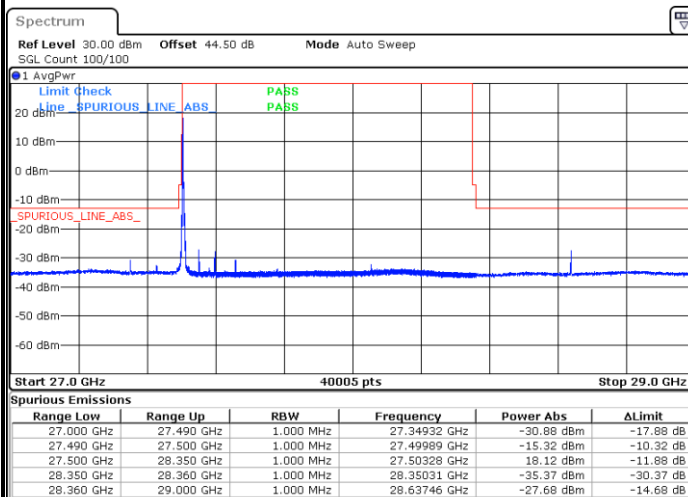


Date: 25.AUG.2020 02:55:26

DFT-s-OFDM Module 0

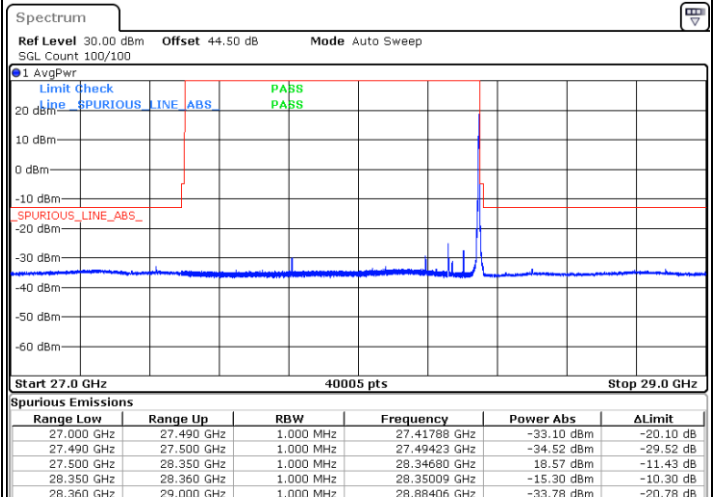
NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Date: 24.AUG.2020 23:13:31

Highest Band Edge / 1 RB



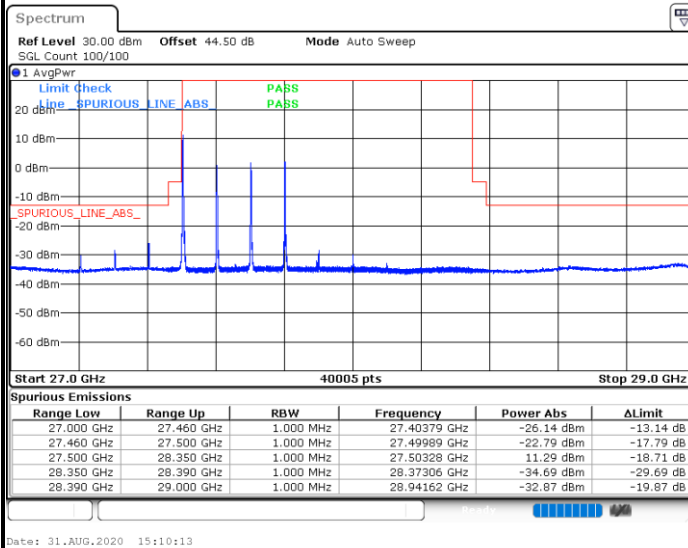
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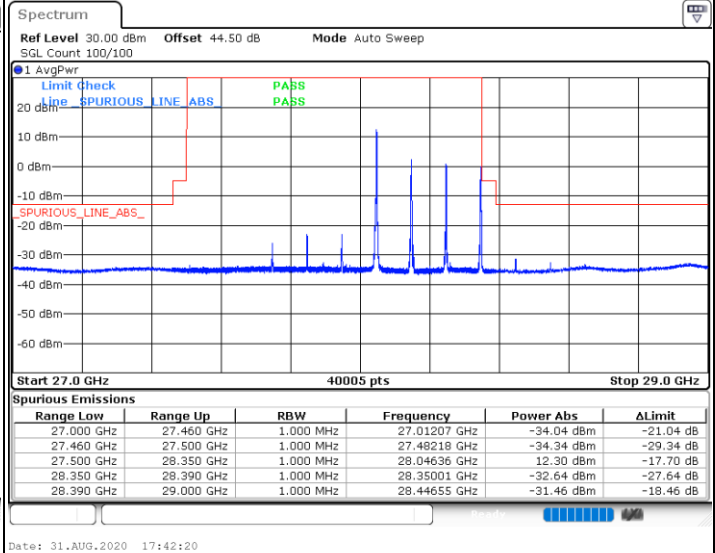
DFT-s-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / 1 RB



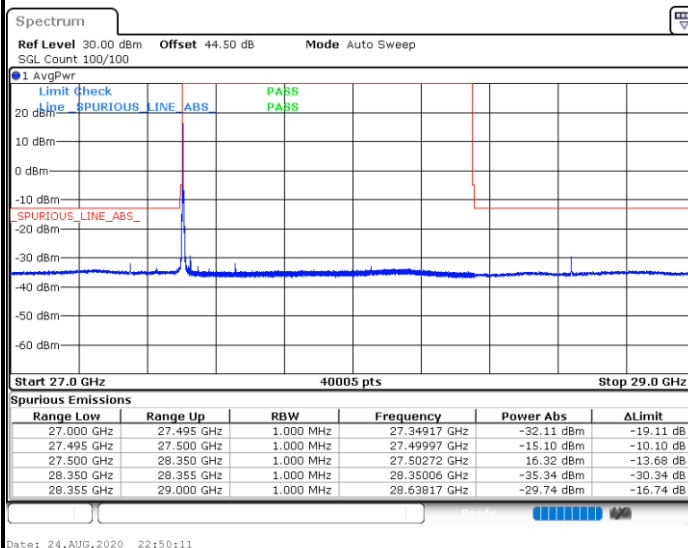
Highest Band Edge / 1 RB



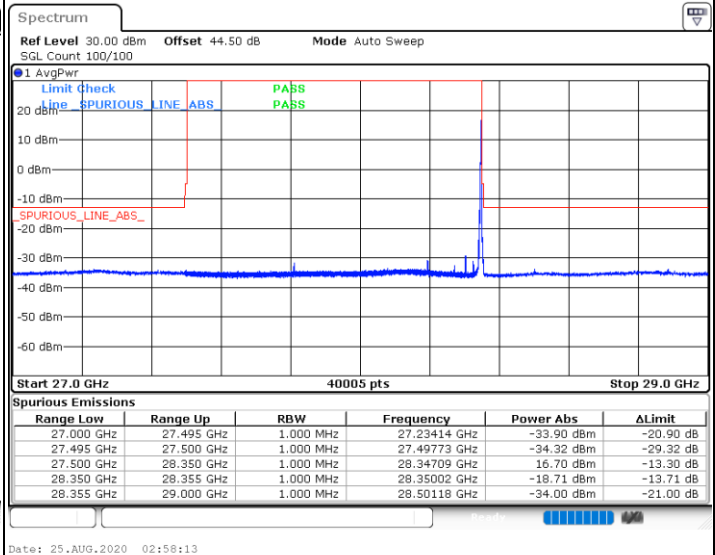
CP-OFDM Module 0

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

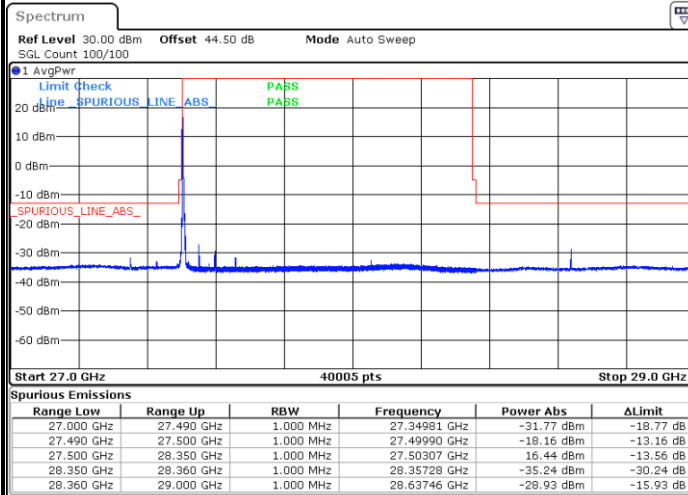




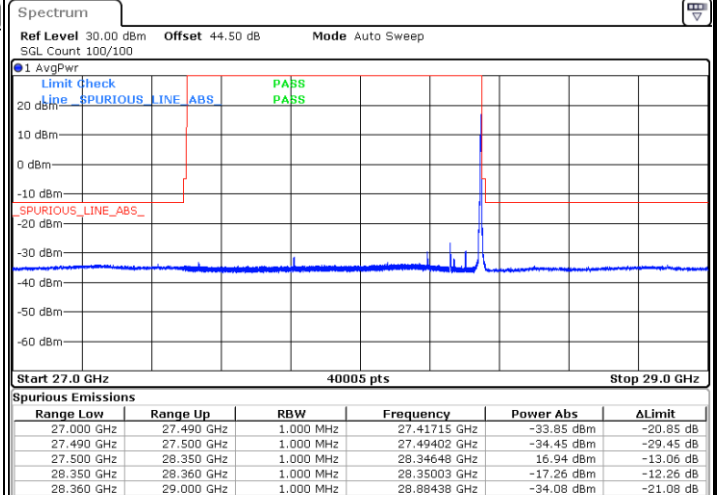
CP-OFDM Module 0

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB



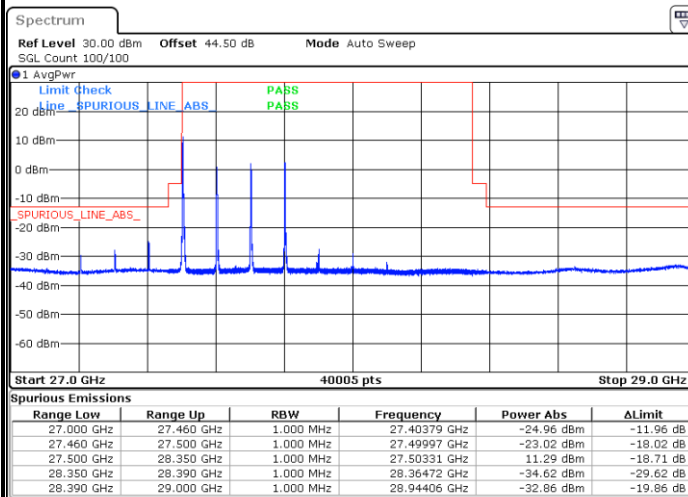
Highest Band Edge / 1 RB



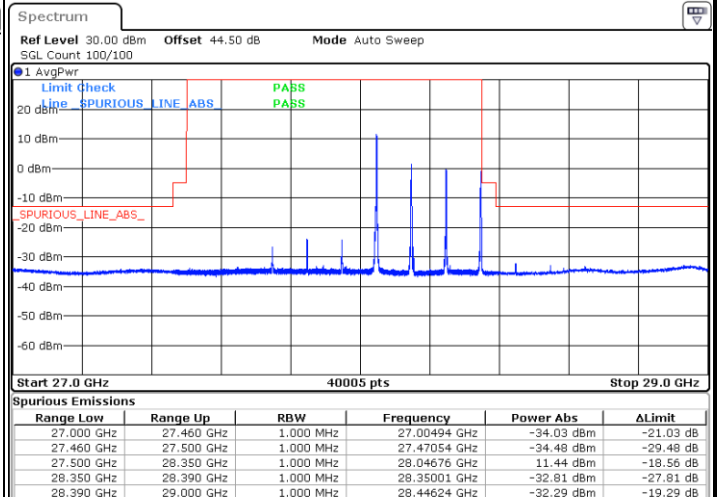
CP-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



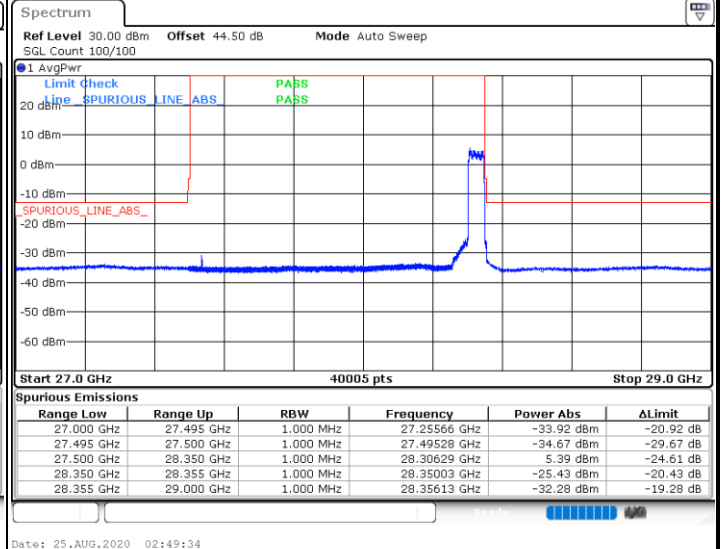
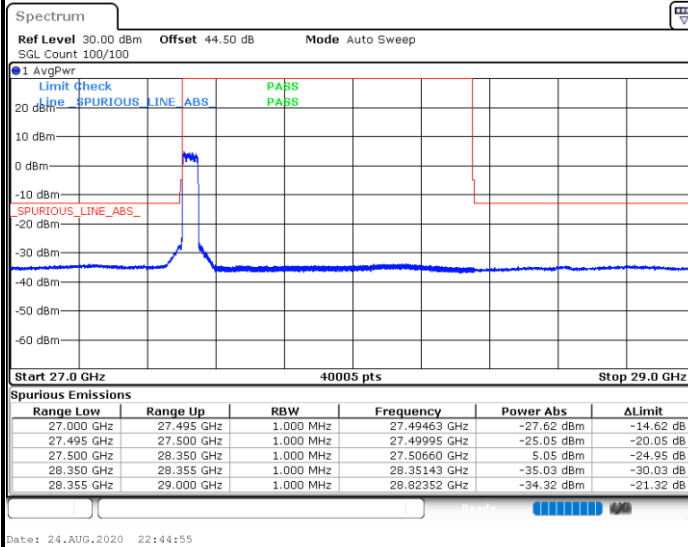


DFT-s-OFDM Module 0

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

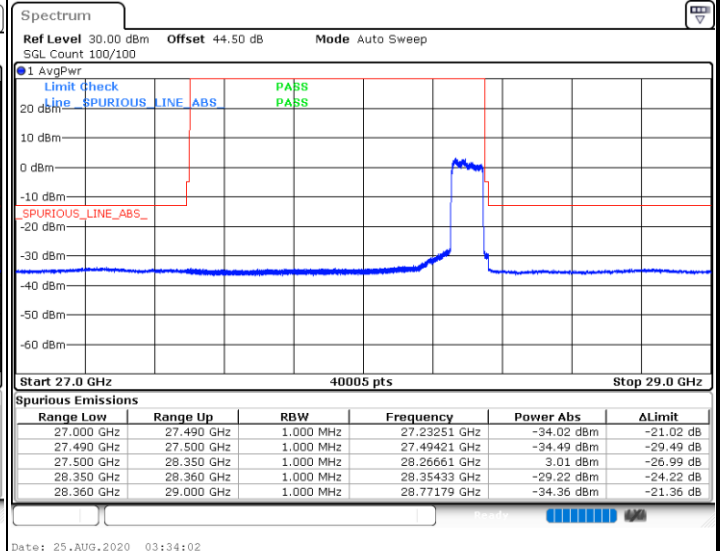
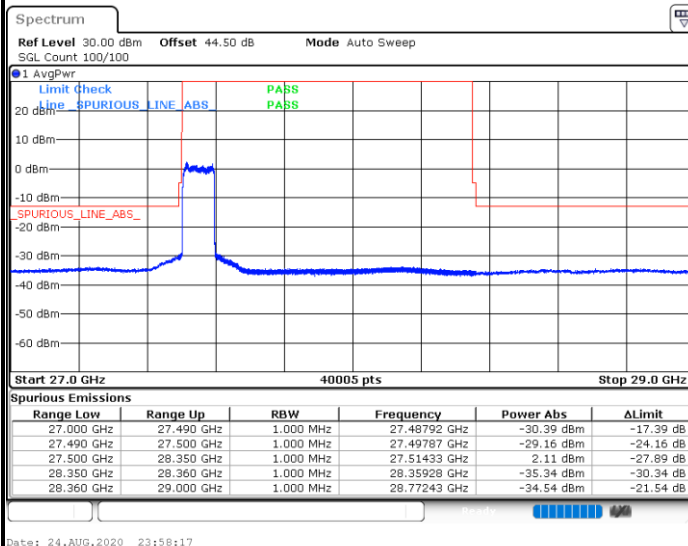


DFT-s-OFDM Module 0

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

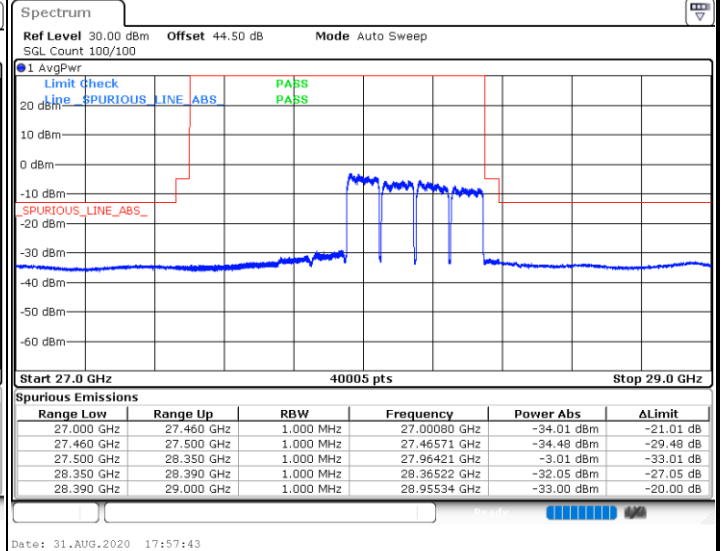
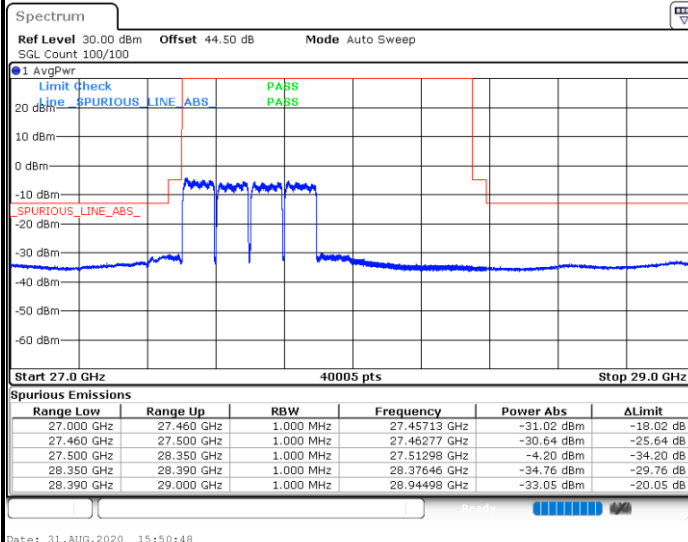


DFT-s-OFDM Module 0

NR Band n261 / 400MHz / QPSK

Lowest Band Edge / Full RB

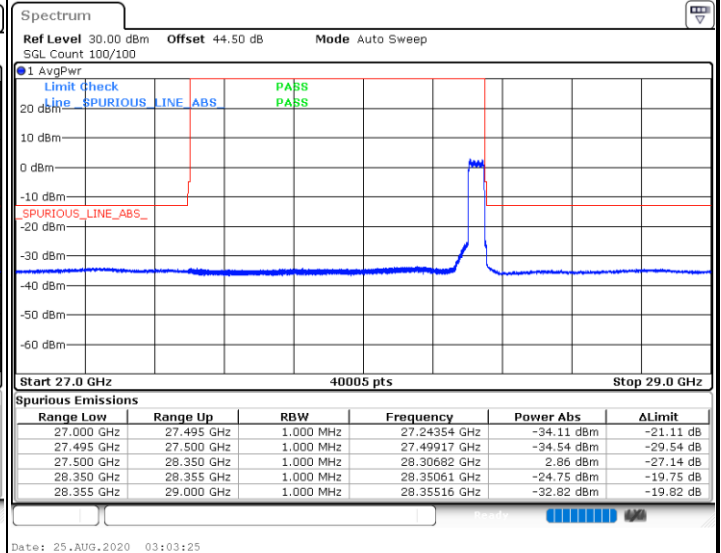
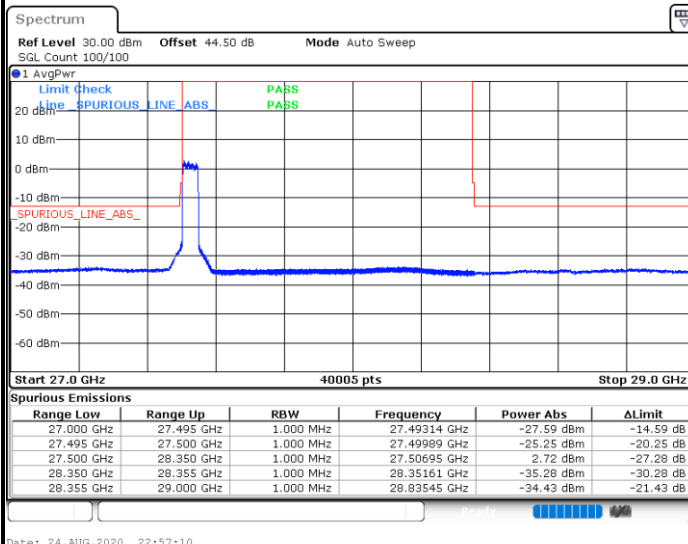
Highest Band Edge / Full RB

CP-OFDM Module 0

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

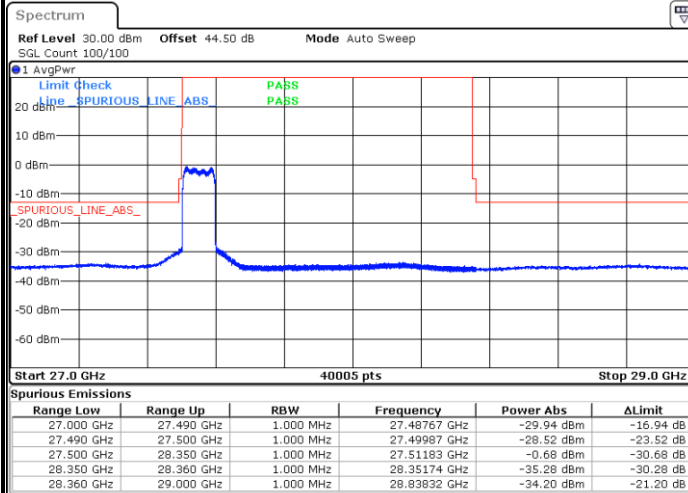




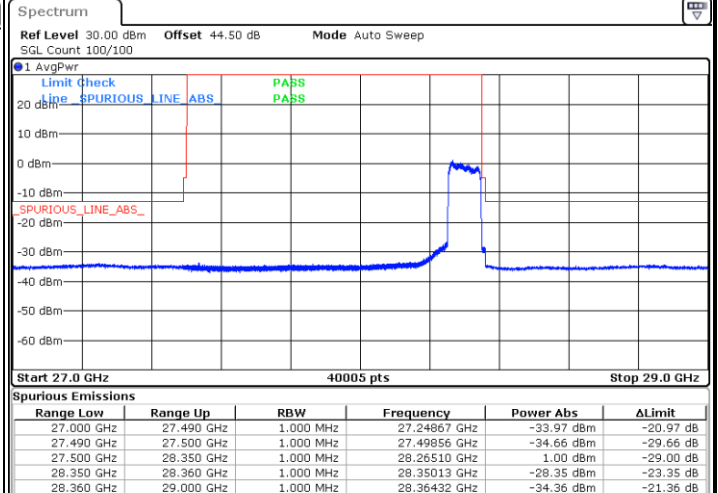
CP-OFDM Module 0

NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



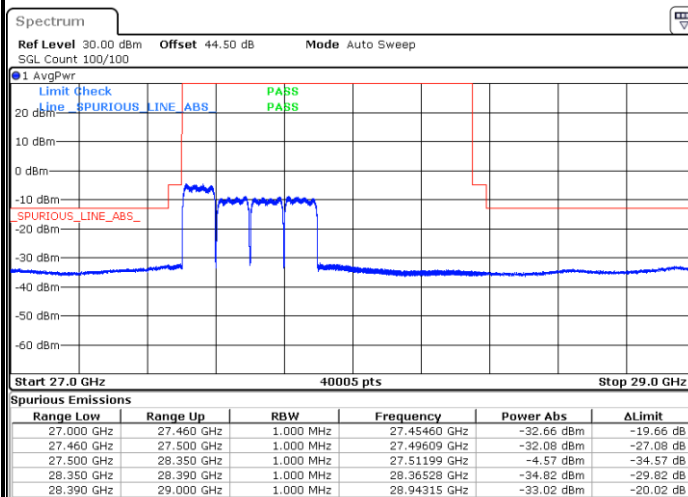
Highest Band Edge / Full RB



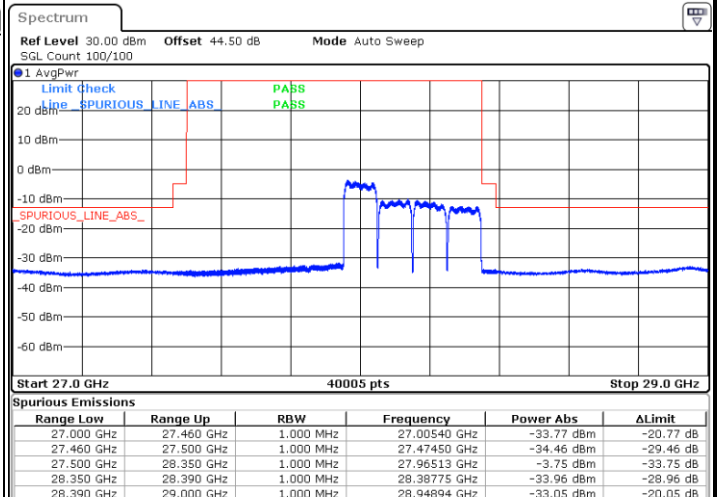
CP-OFDM Module 0

NR Band n261 / 400MHz / QPSK

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.

