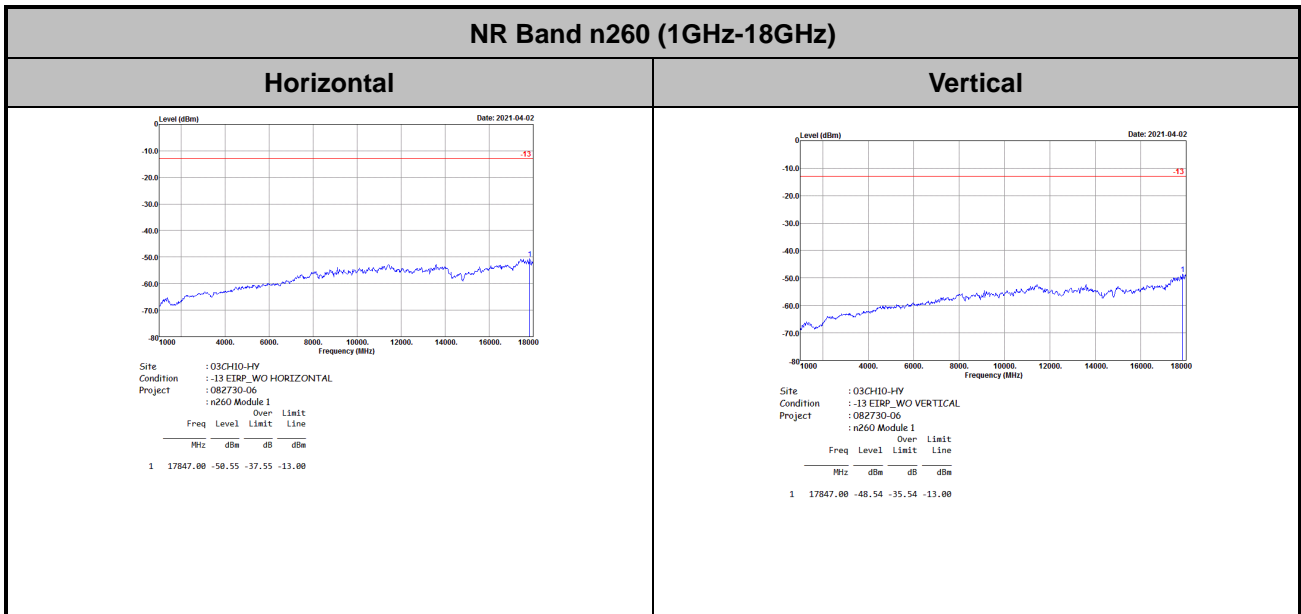
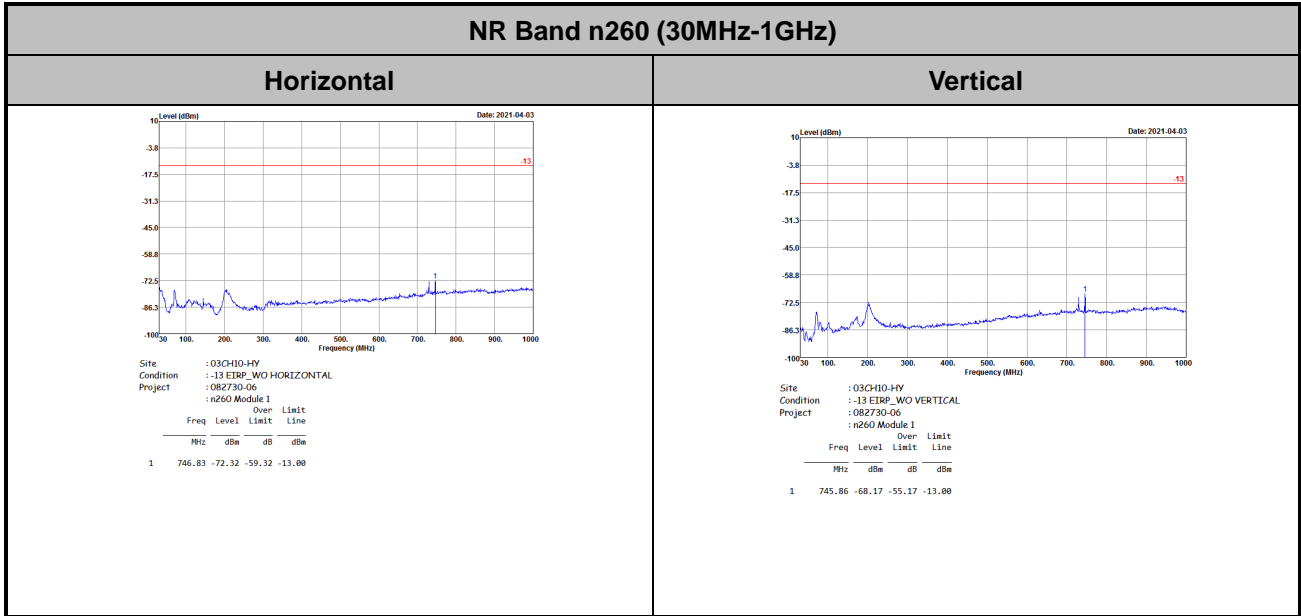




# Spurious Emission

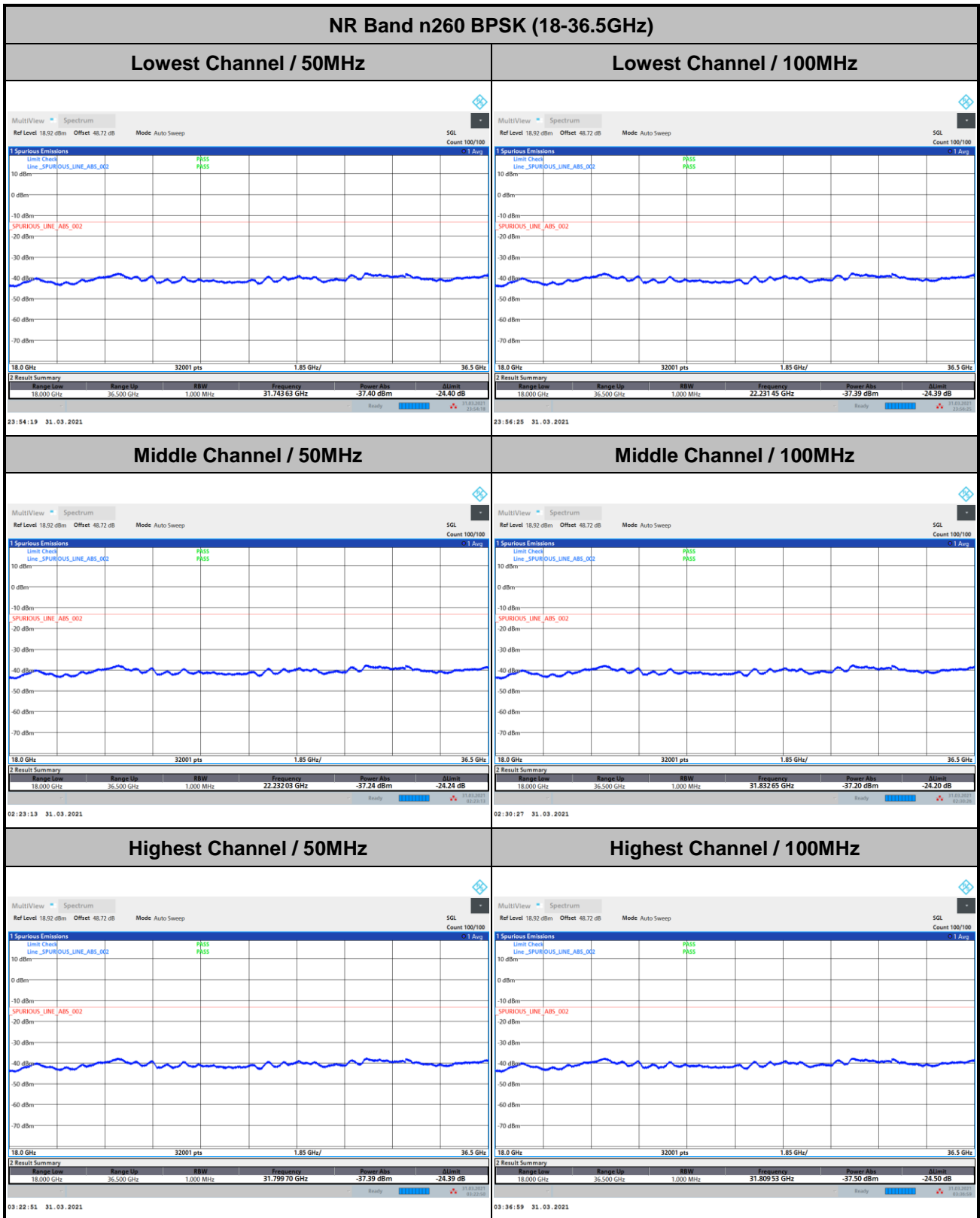
There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz. Only the noise floor is reported.





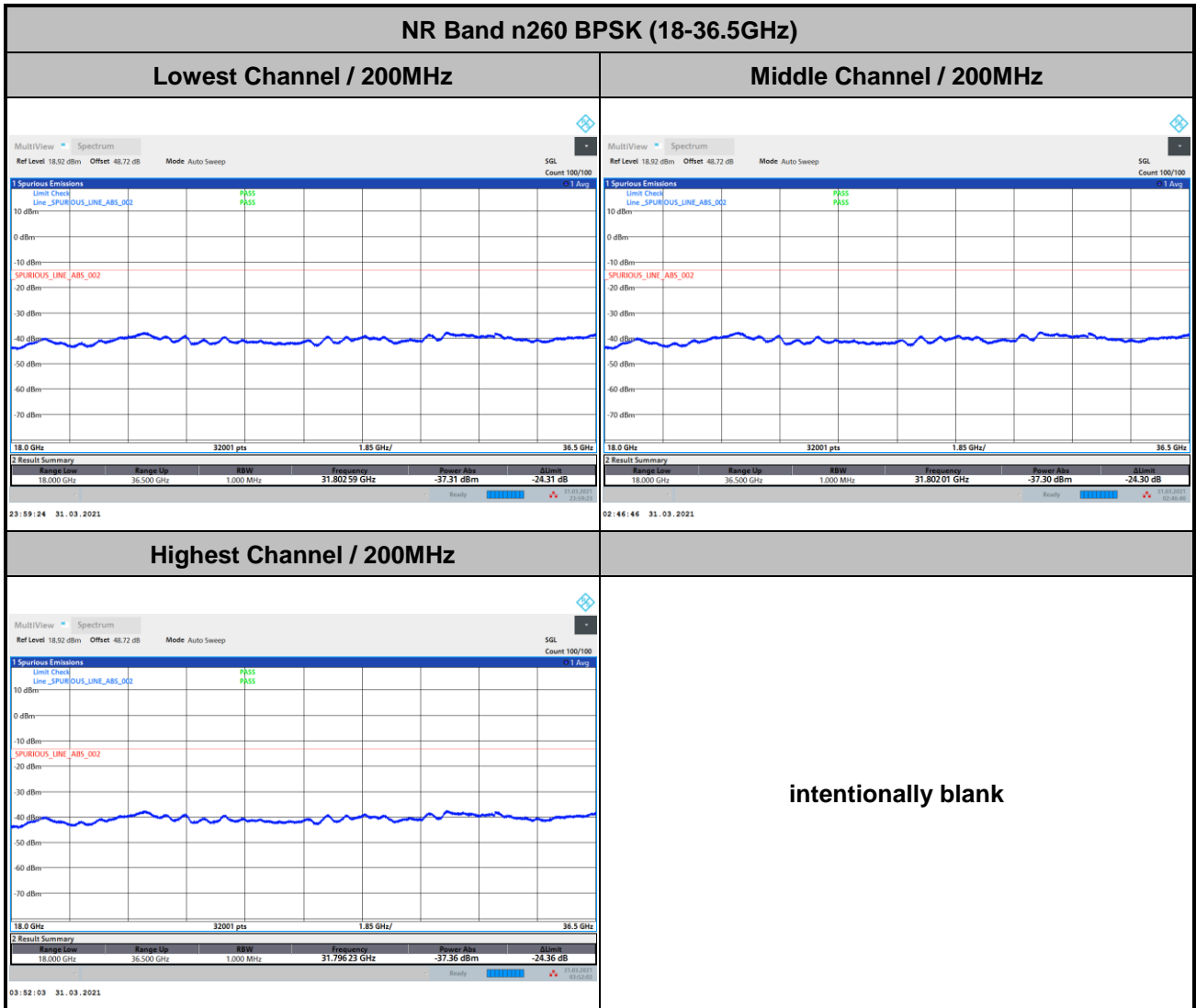
Spurious emission between 18GHz to 36.5GHz worst case plot is reported as following.

DFT-s-OFDM Module 1





DFT-s-OFDM Module 1



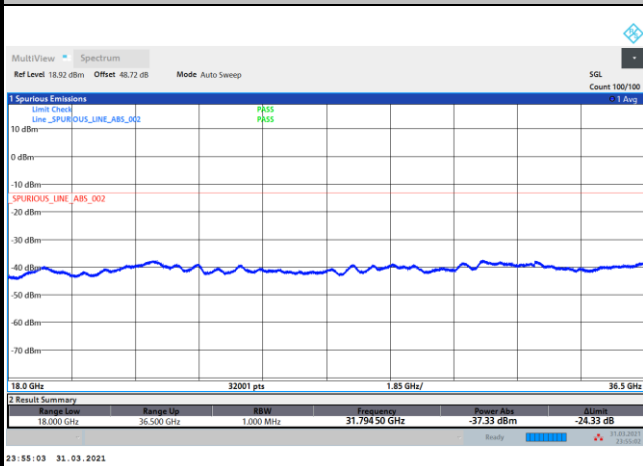
**Remark:** Above plots, the spurious emissions were measured from 18GHz to 36.5GHz. The test results within the omitted frequency 36.5GHz to 40GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 36.5GHz to 40.5GHz and all spurious comply with limits.



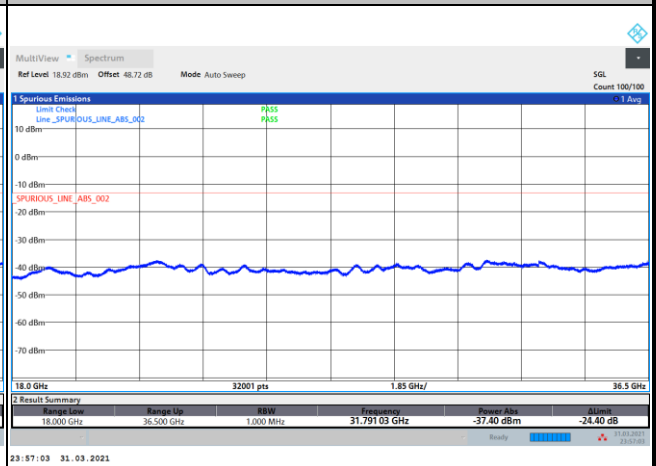
DFT-s-OFDM Module 1

NR Band n260 QPSK (18-36.5GHz)

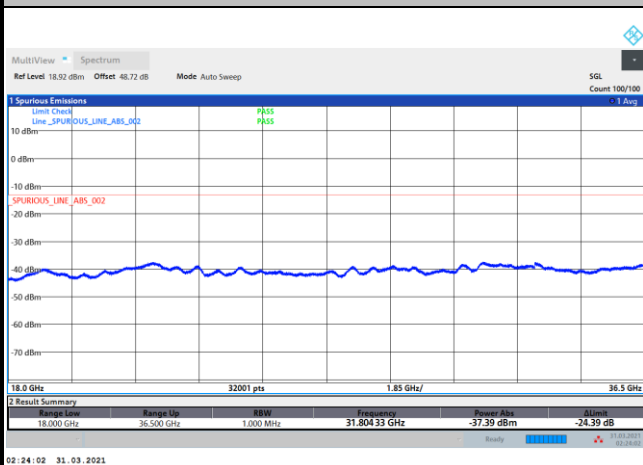
Lowest Channel / 50MHz



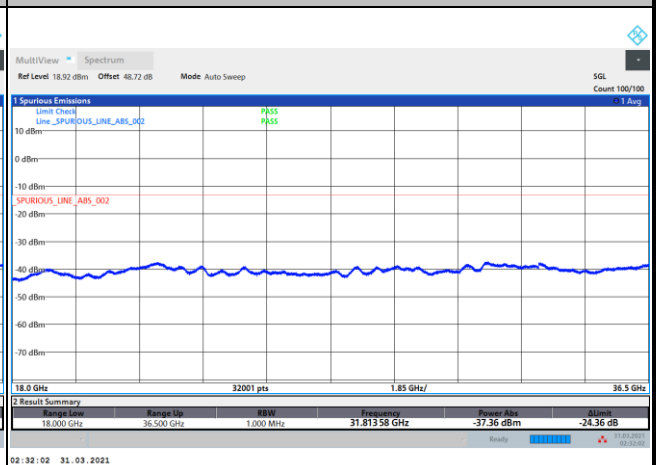
Lowest Channel / 100MHz



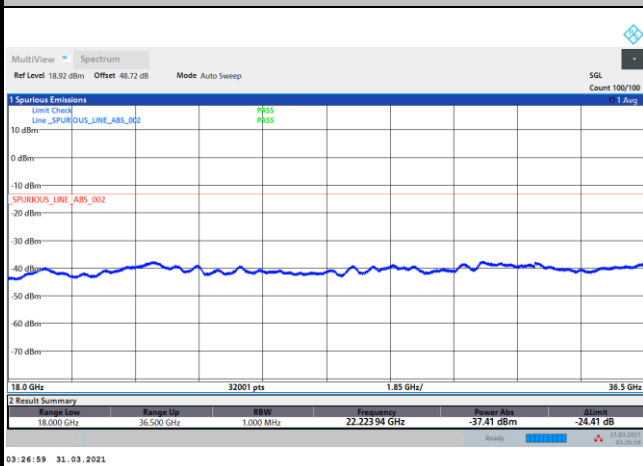
Middle Channel / 50MHz



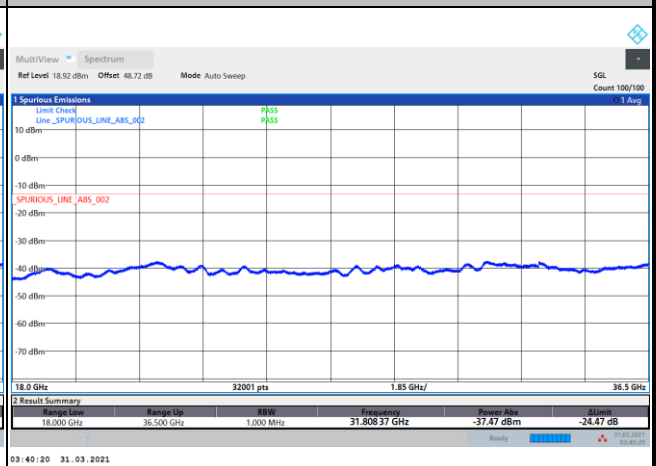
Middle Channel / 100MHz



Highest Channel / 50MHz

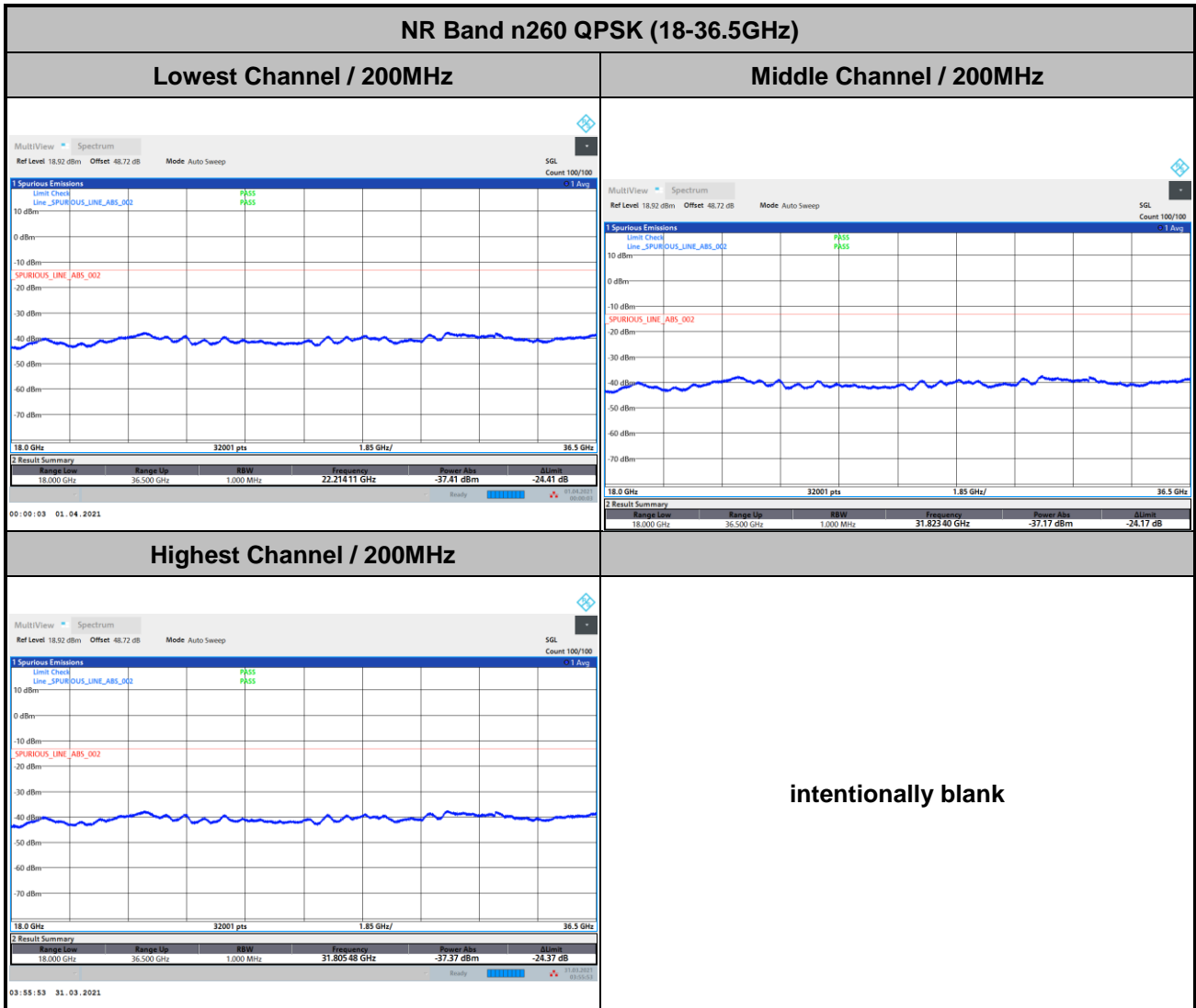


Highest Channel / 100MHz





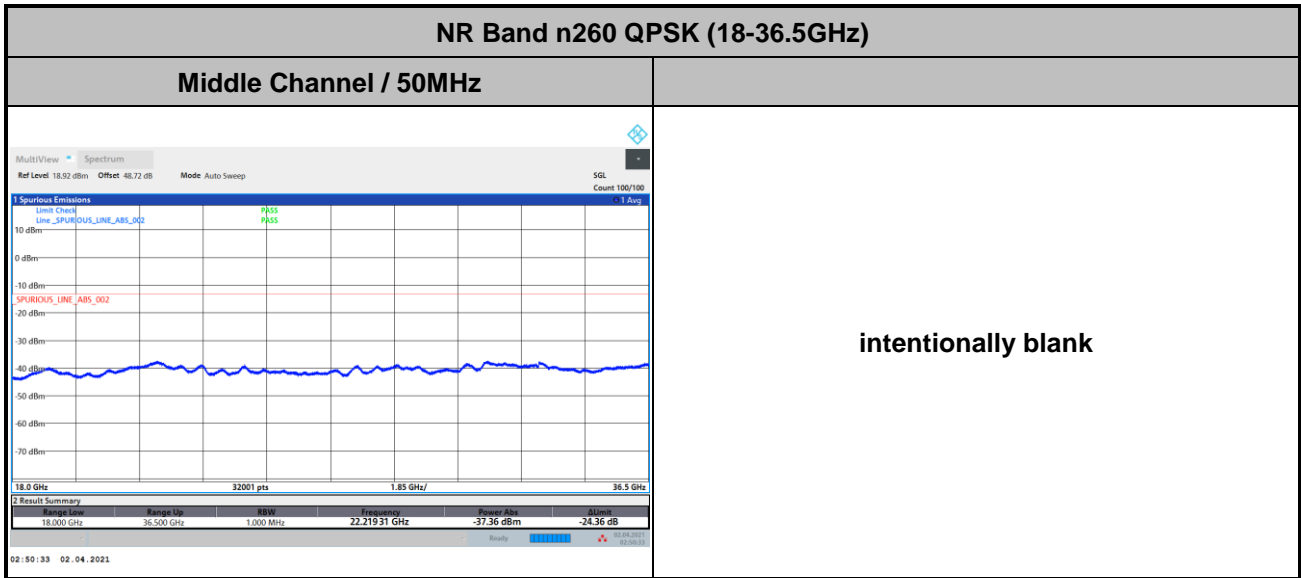
DFT-s-OFDM Module 1



**Remark:** Above plots, the spurious emissions were measured from 18GHz to 36.5GHz. The test results within the omitted frequency 36.5GHz to 40GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 36.5GHz to 40.5GHz and all spurious comply with limits.



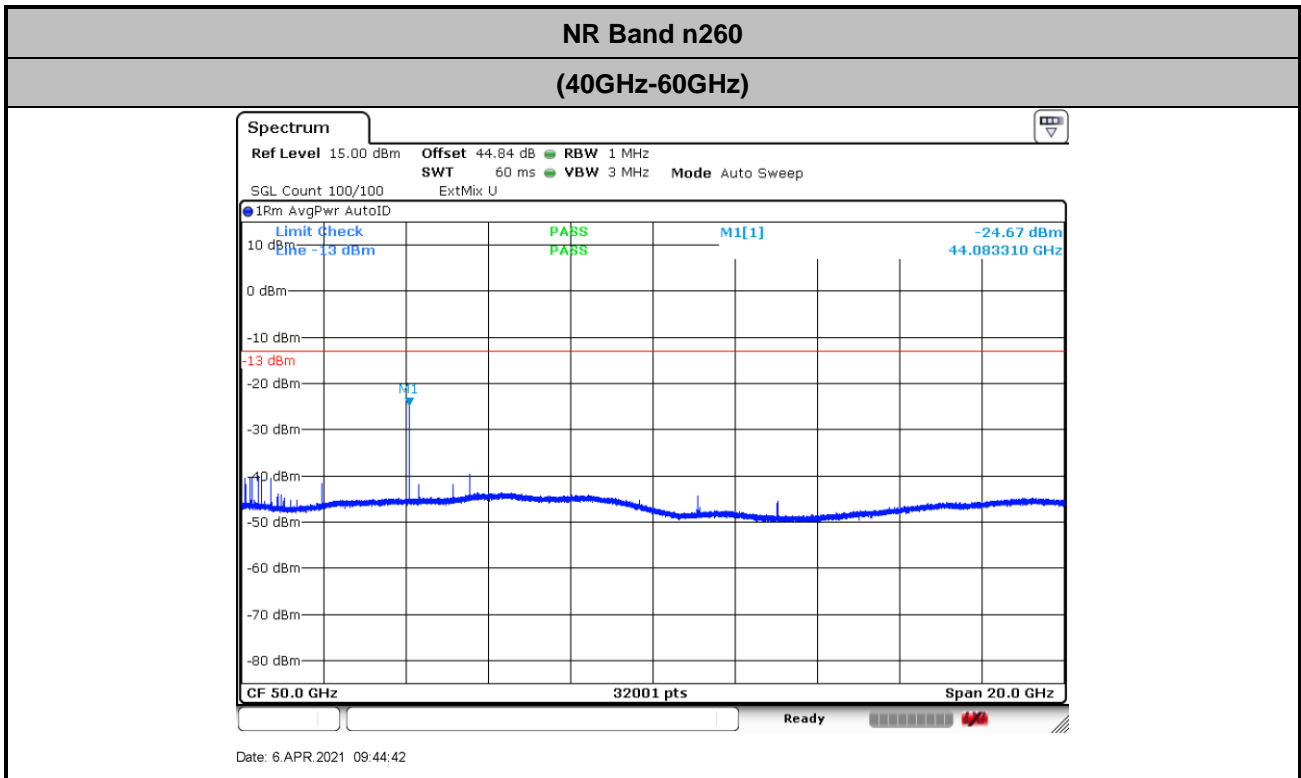
CP-OFDM Module 1



**Remark:** Above plots, the spurious emissions were measured from 18GHz to 36.5GHz. The test results within the omitted frequency 36.5GHz to 40GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 36.5GHz to 40.5GHz and all spurious comply with limits.

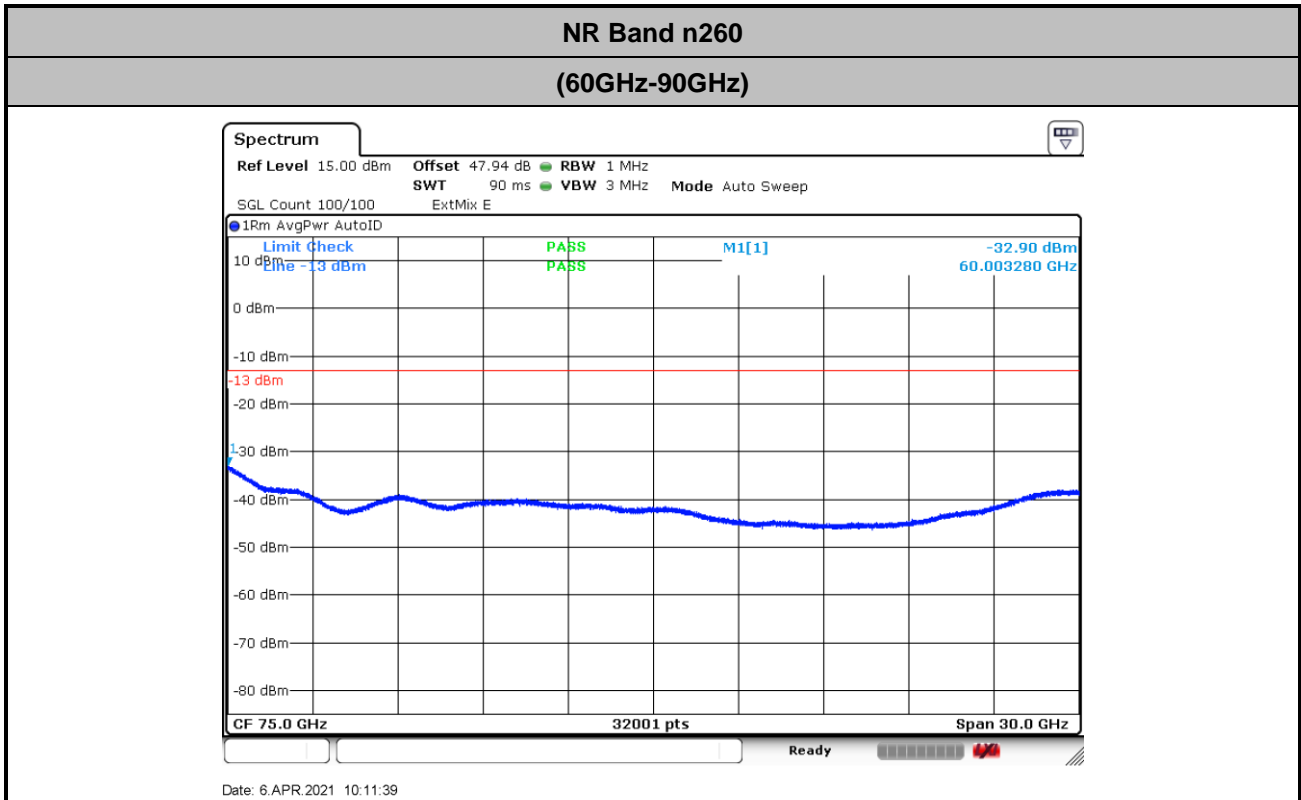


There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.



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

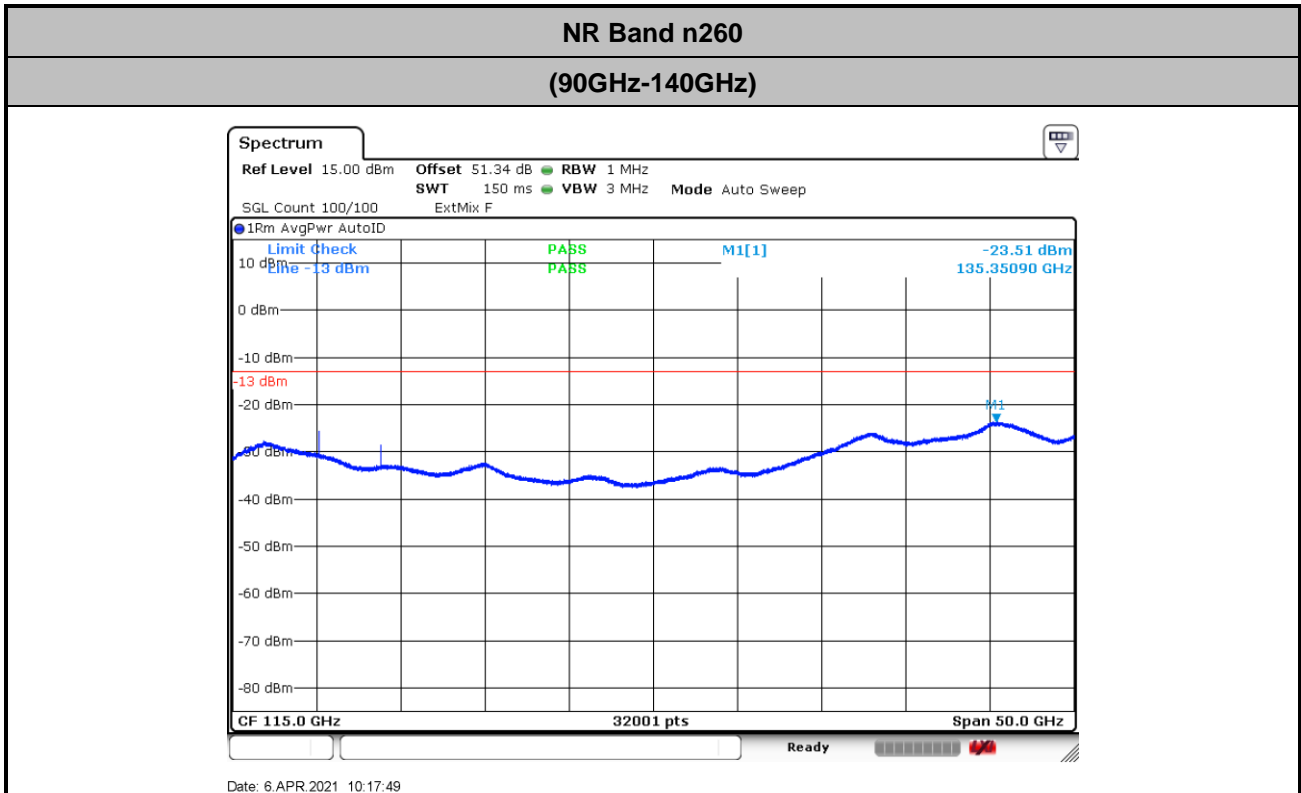
$$= 42.3 + 0.34 + 107 + 20\log(1) - 104.8 = 44.84 \text{ (dB)}$$



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

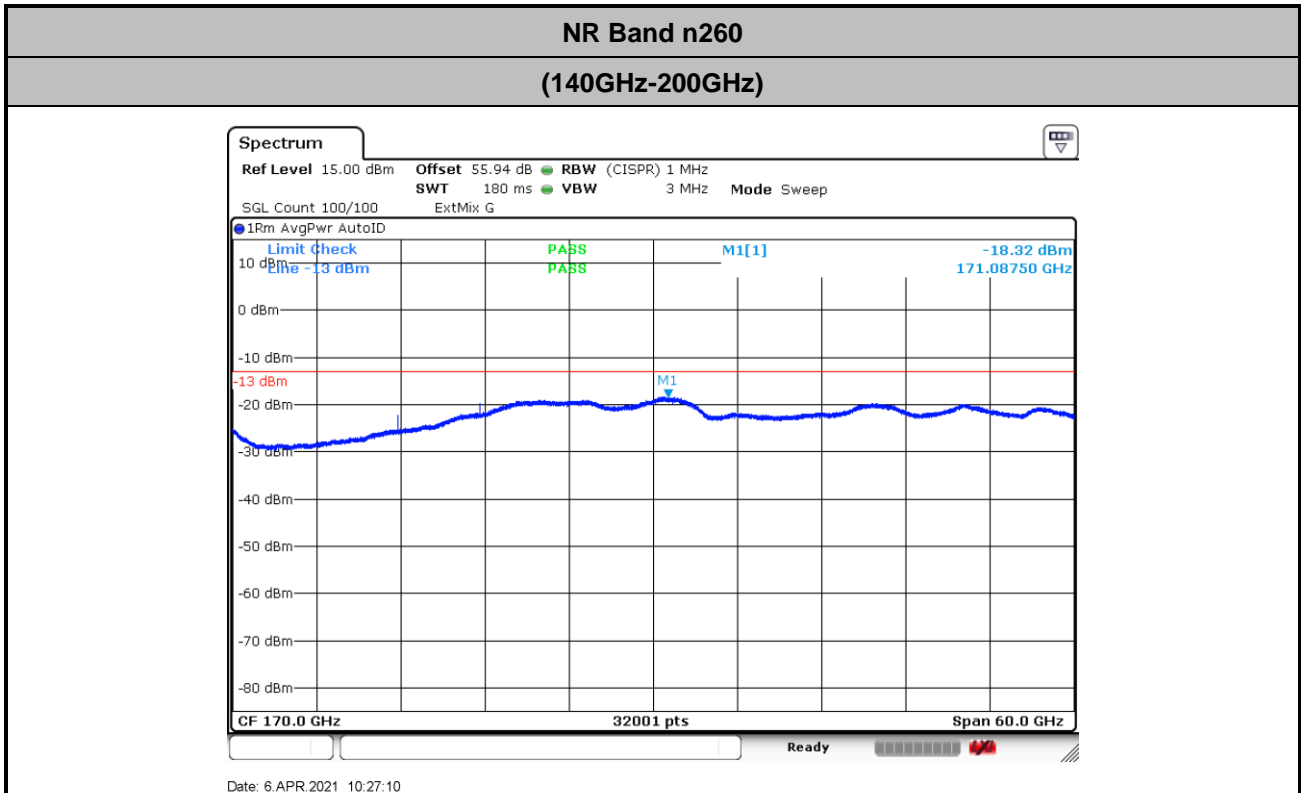
$$= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94 \text{ (dB)}$$





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

$$= 48.8 + 0.34 + 107 + 20\log(1) - 104.8 = 51.34 \text{ (dB)}$$



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

$$= 53.4 + 0.34 + 107 + 20\log(1) - 104.8 = 55.94 \text{ (dB)}$$



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	38.499991	9.000	0.234	PASS
40	Normal Voltage	38.499986	14.000	0.364	
30	Normal Voltage	38.500036	-36.000	0.935	
20(Ref.)	Normal Voltage	38.5	0.000	0.000	
10	Normal Voltage	38.5002038	-203.800	5.294	
0	Normal Voltage	38.5003357	-335.700	8.719	
-10	Normal Voltage	38.5002038	-203.800	5.294	
-20	Normal Voltage	38.5004685	-468.500	12.169	
-30	Normal Voltage	38.5004535	-453.500	11.779	
20	Maximum Voltage	38.500005	-5.000	0.130	
20	Normal Voltage	38.499997	3.000	0.078	
20	Battery End Point	38.499986	14.000	0.364	

Note: The frequency fundamental emissions stay within the operation band.



# NR Band n261 AG0

## Occupied Bandwidth

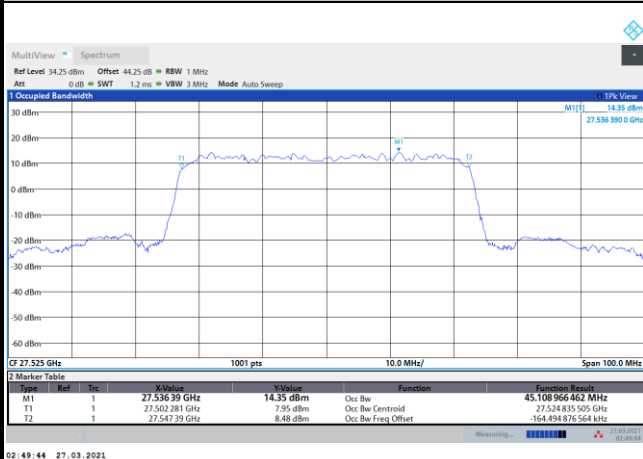
Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.10	45.20	45.50	45.39	90.42	90.47	90.33	90.64	189.01	189.07	189.07	189.53
Middle CH	45.09	45.24	45.53	45.34	90.52	90.53	90.35	90.58	188.84	188.79	188.97	189.28
Highest CH	45.19	45.49	45.47	45.21	90.25	90.29	90.06	90.35	189.11	188.69	188.09	188.81



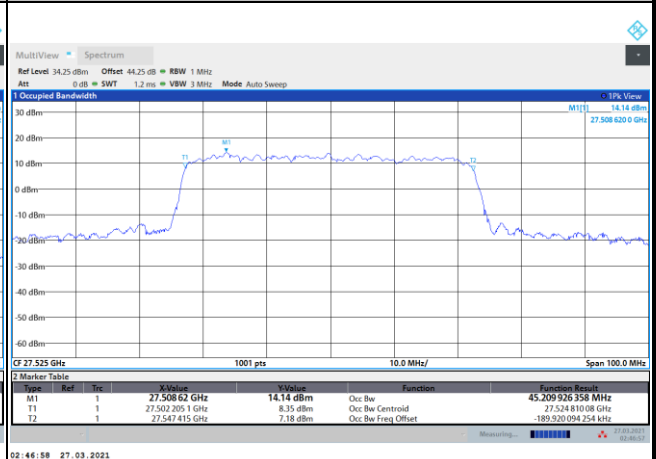
DFT-s-OFDM Module 0

NR Band n261

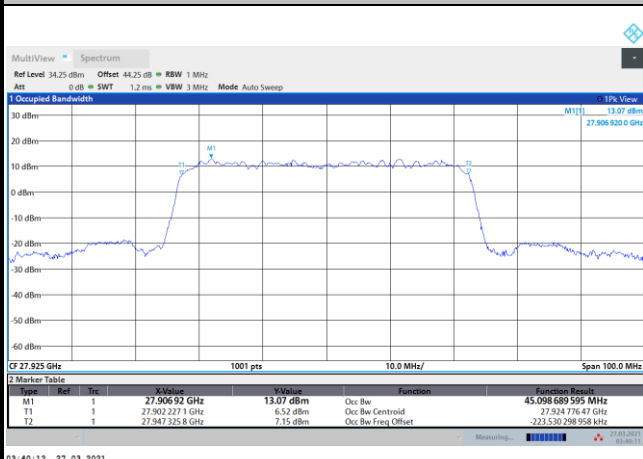
Lowest Channel / 50MHz / BPSK



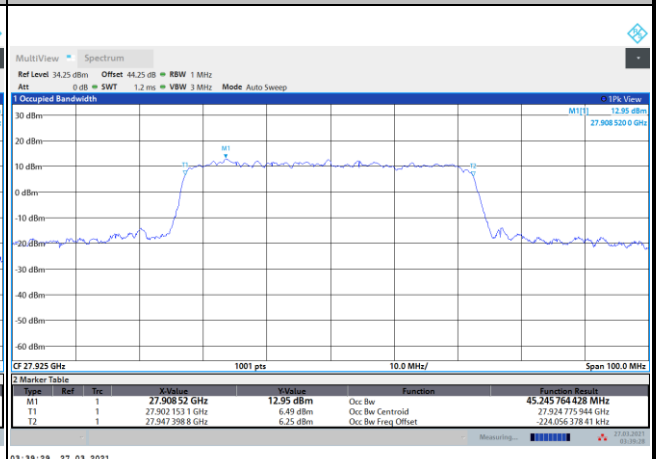
Lowest Channel / 50MHz / QPSK



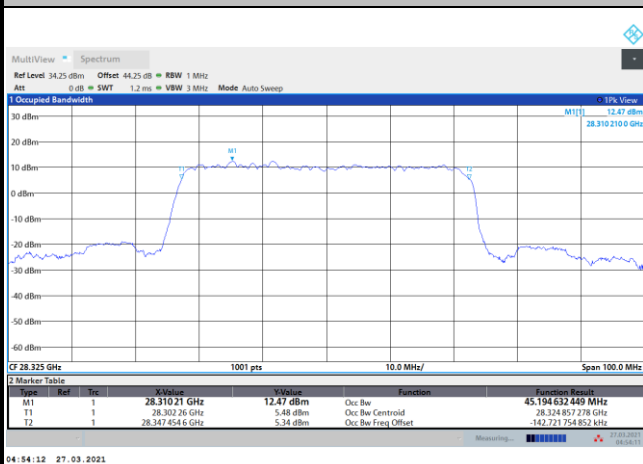
Middle Channel / 50MHz / BPSK



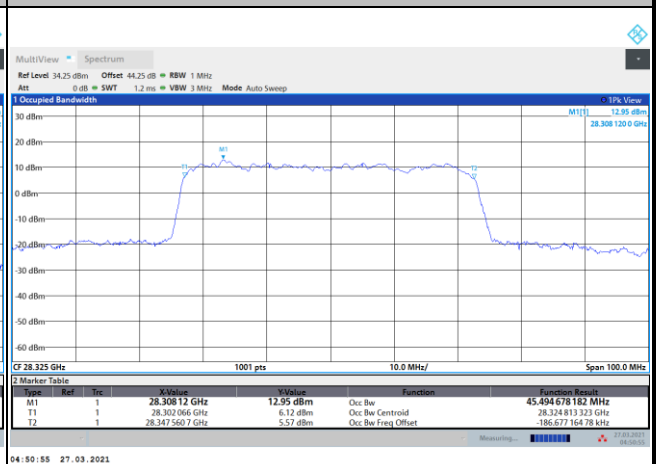
Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

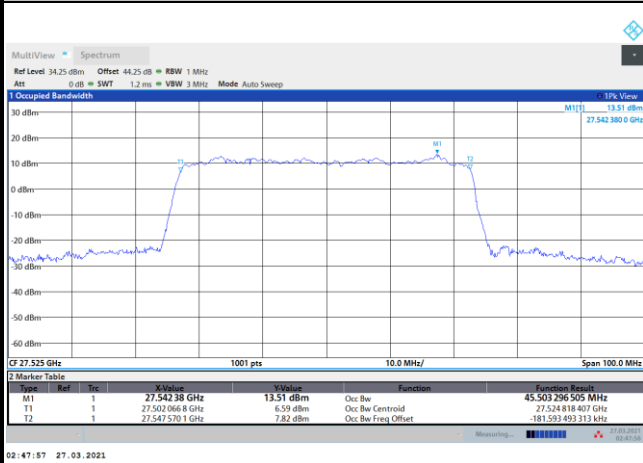




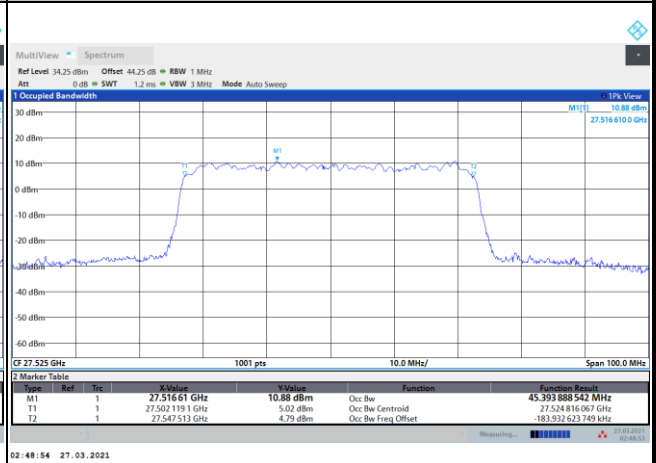
DFT-s-OFDM Module 0

NR Band n261

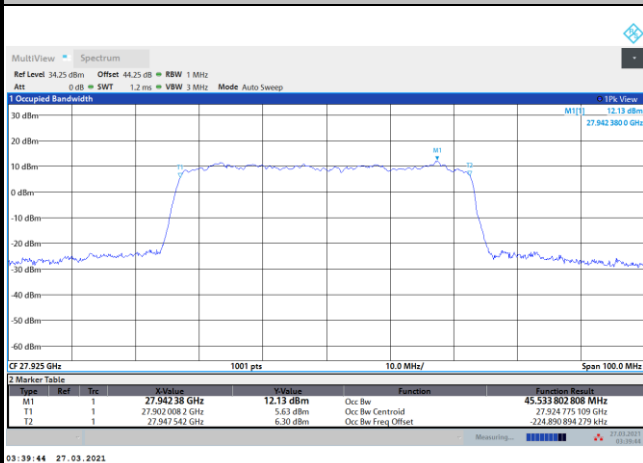
Lowest Channel / 50MHz / 16QAM



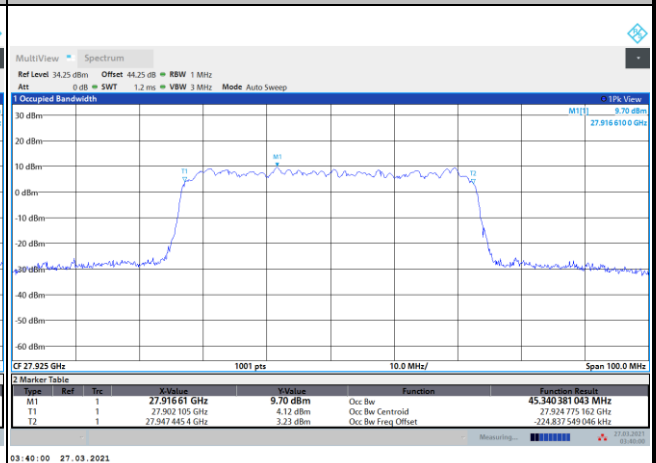
Lowest Channel / 50MHz / 64QAM



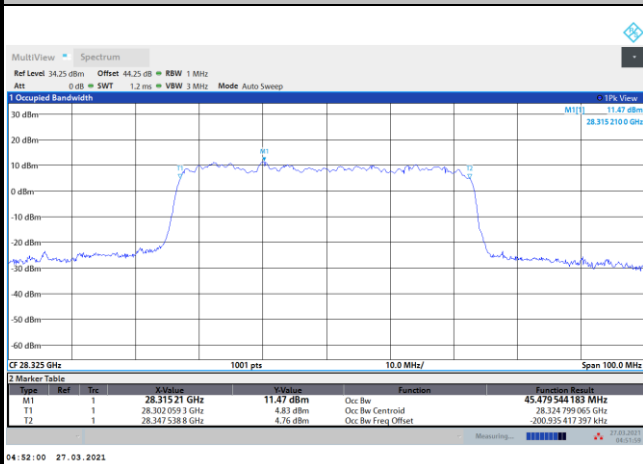
Middle Channel / 50MHz / 16QAM



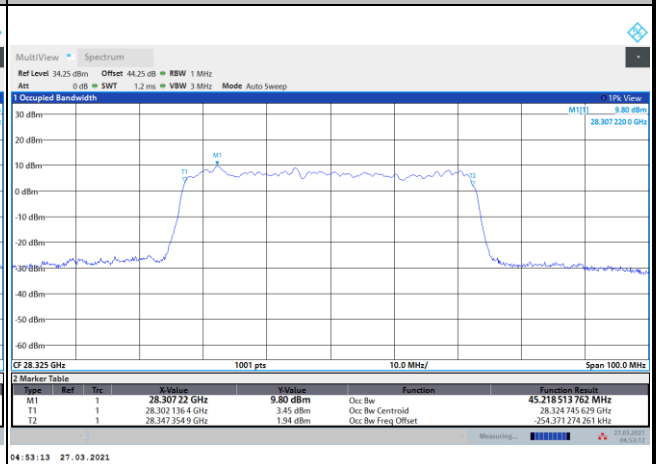
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM



Highest Channel / 50MHz / 64QAM

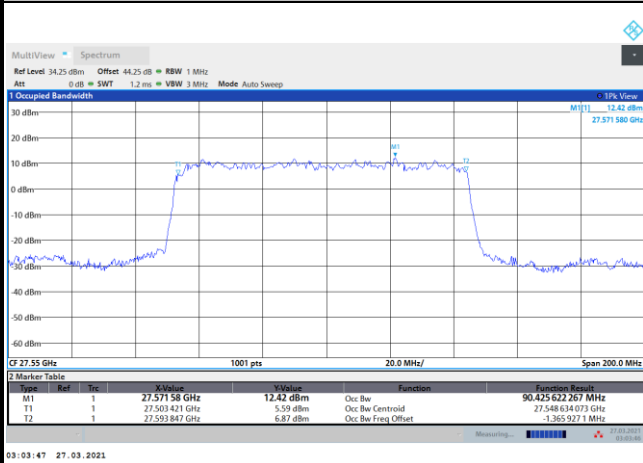




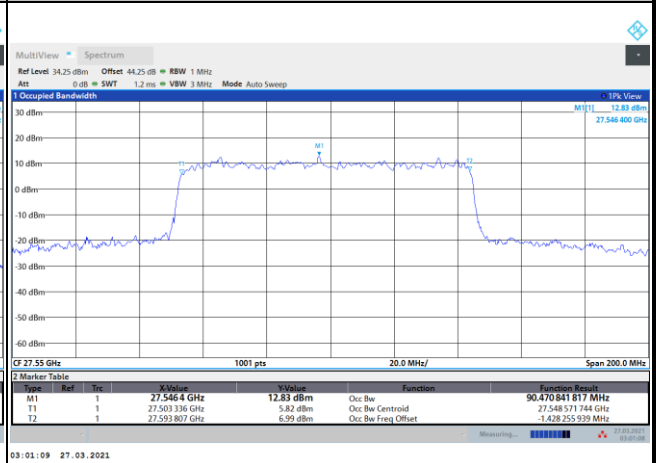
DFT-s-OFDM Module 0

NR Band n261

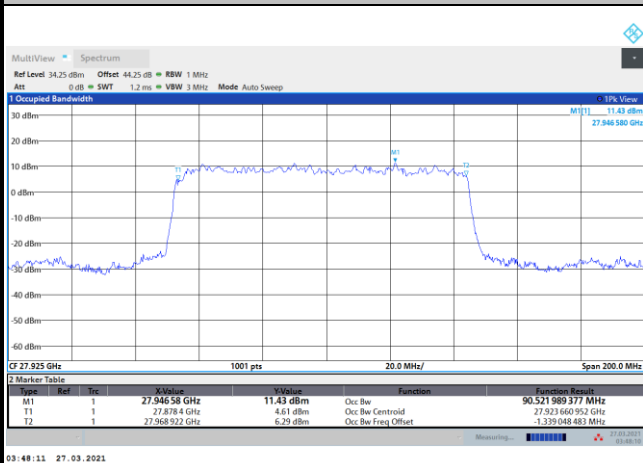
Lowest Channel / 100MHz / BPSK



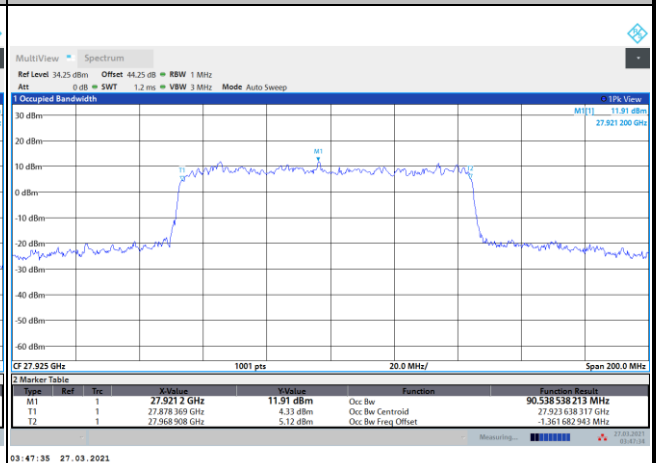
Lowest Channel / 100MHz / QPSK



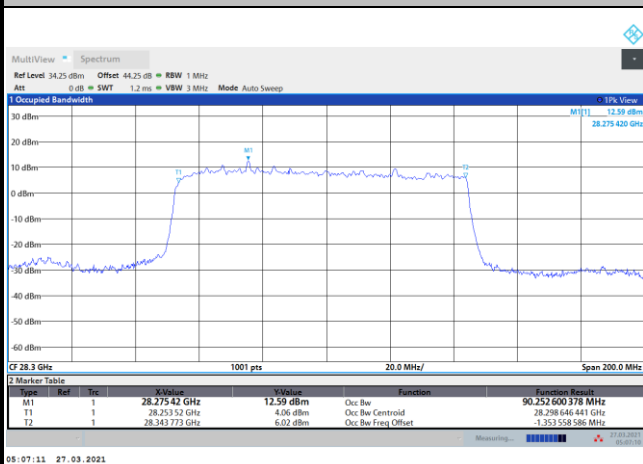
Middle Channel / 100MHz / BPSK



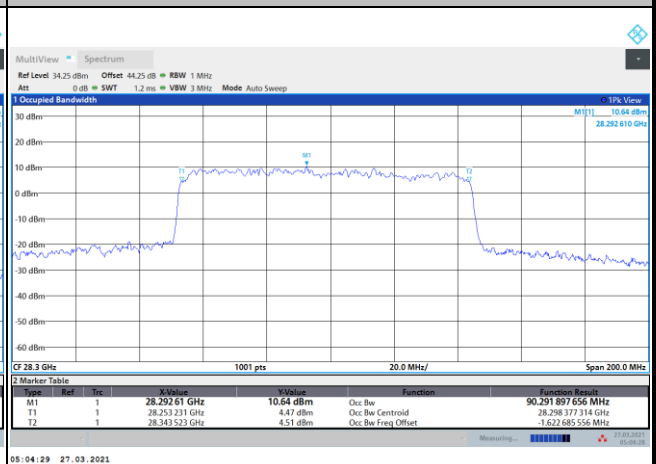
Middle Channel / 100MHz / QPSK



Highest Channel / 100MHz / BPSK



Highest Channel / 100MHz / QPSK

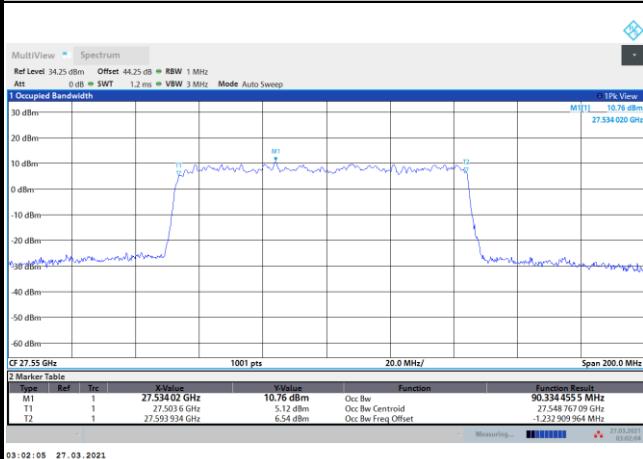




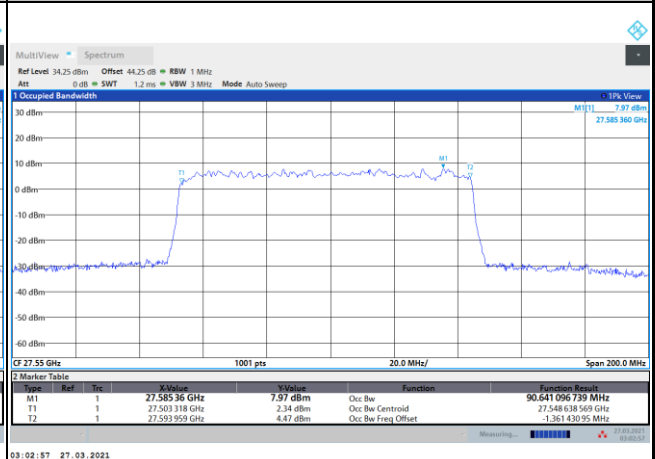
DFT-s-OFDM Module 0

NR Band n261

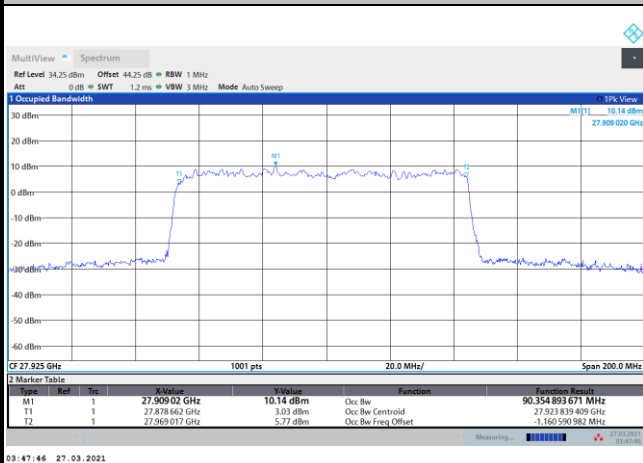
Lowest Channel / 100MHz / 16QAM



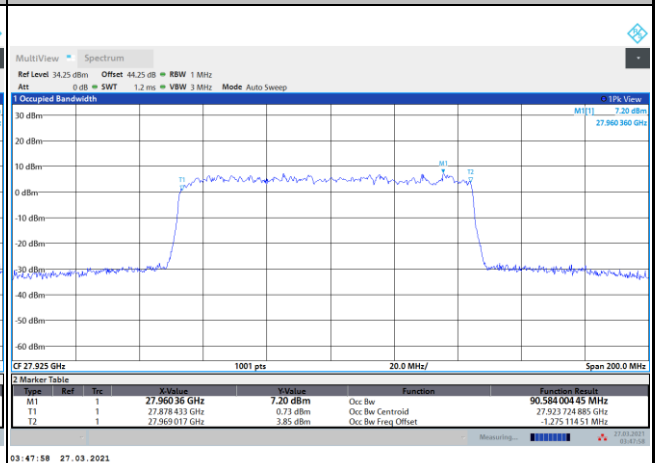
Lowest Channel / 100MHz / 64QAM



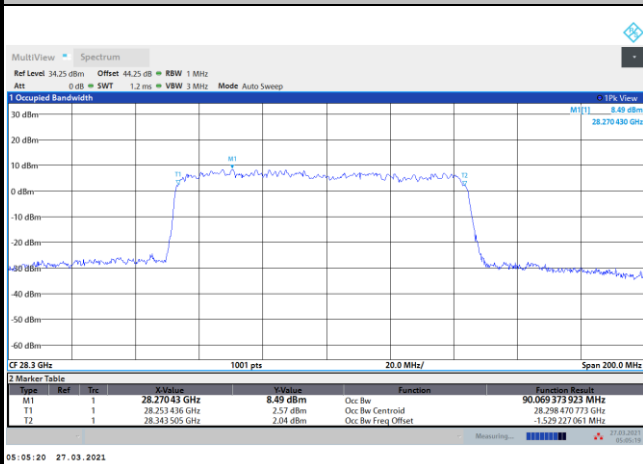
Middle Channel / 100MHz / 16QAM



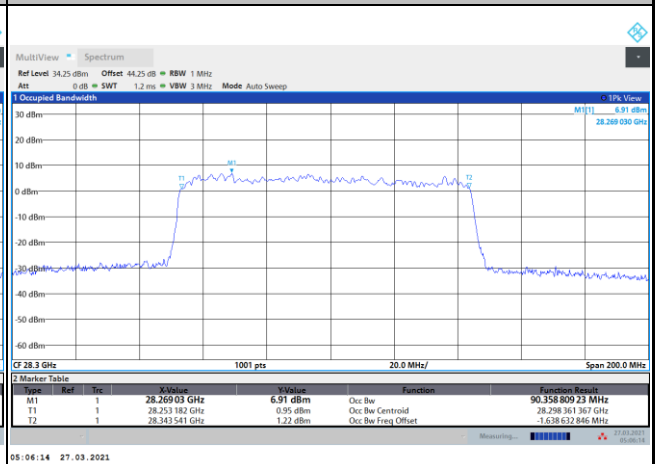
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM



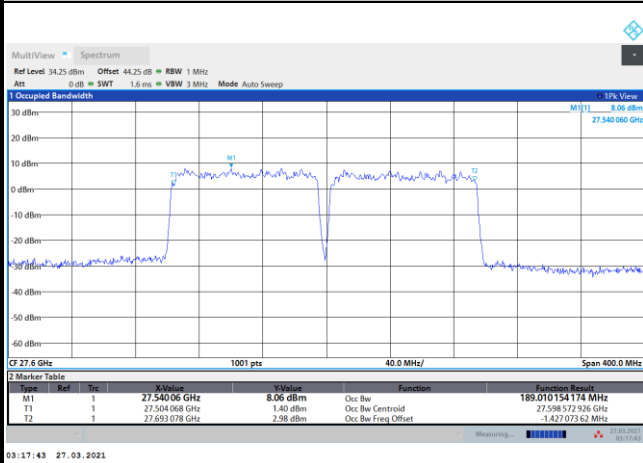




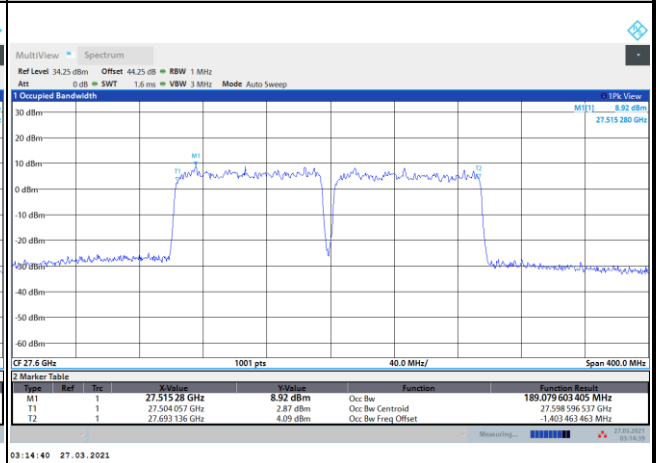
DFT-s-OFDM Module 0

NR Band n261

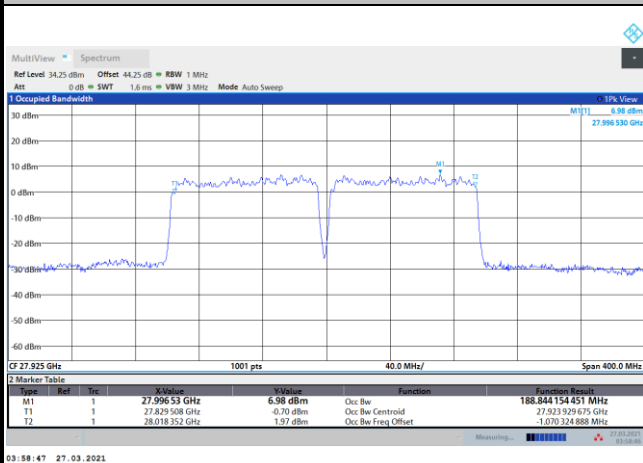
Lowest Channel / 200MHz / BPSK



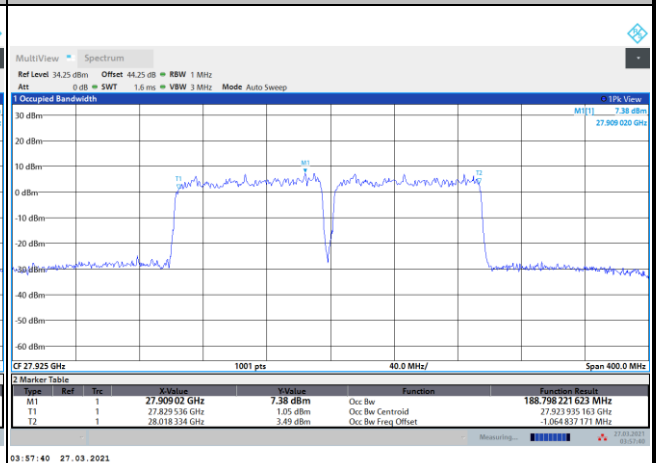
Lowest Channel / 200MHz / QPSK



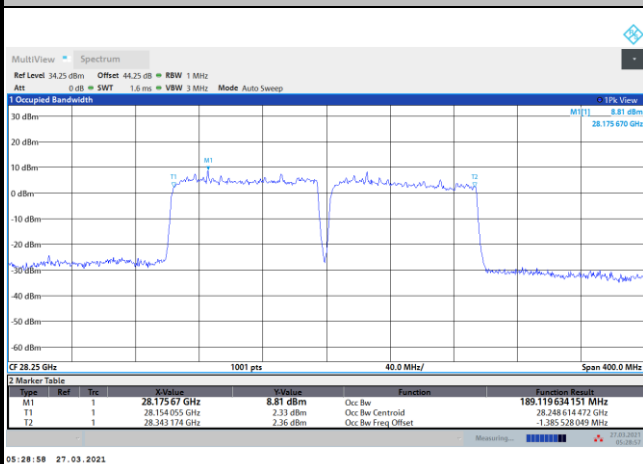
Middle Channel / 200MHz / BPSK



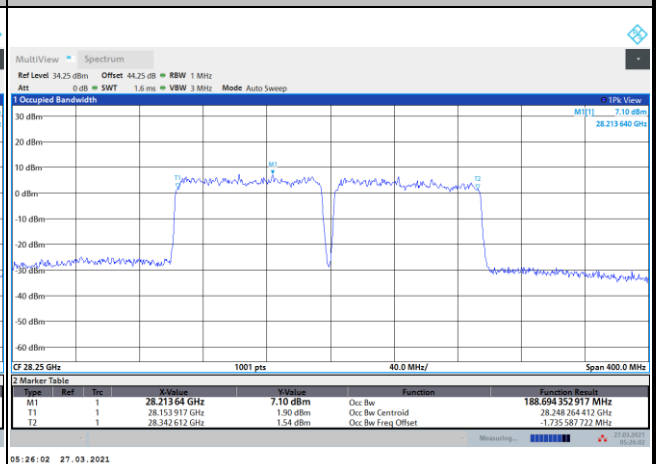
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

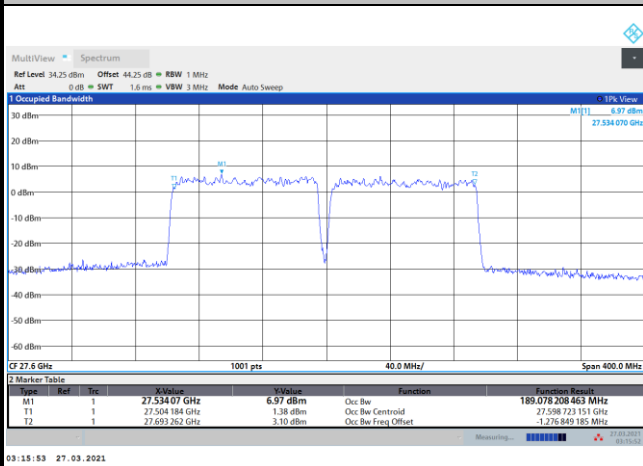




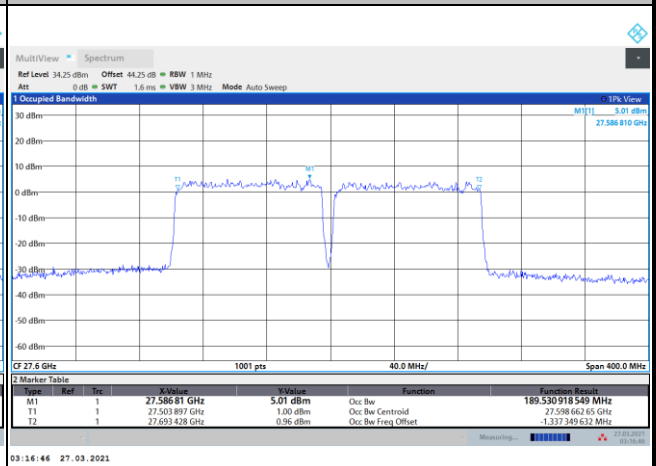
DFT-s-OFDM Module 0

NR Band n261

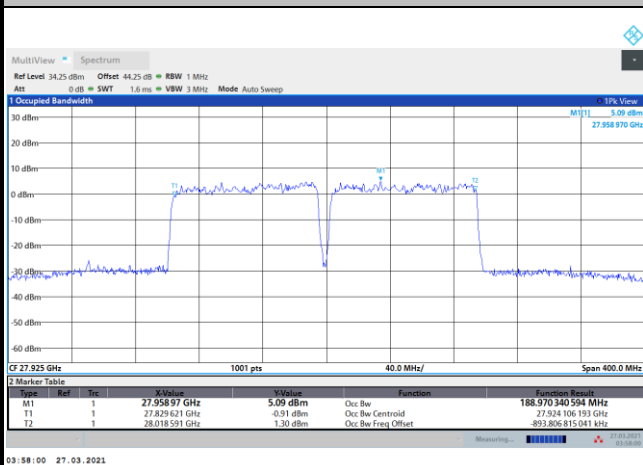
Lowest Channel / 200MHz / 16QAM



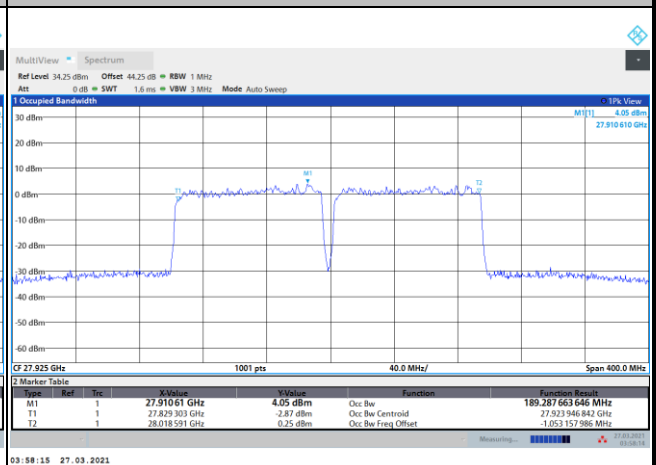
Lowest Channel / 200MHz / 64QAM



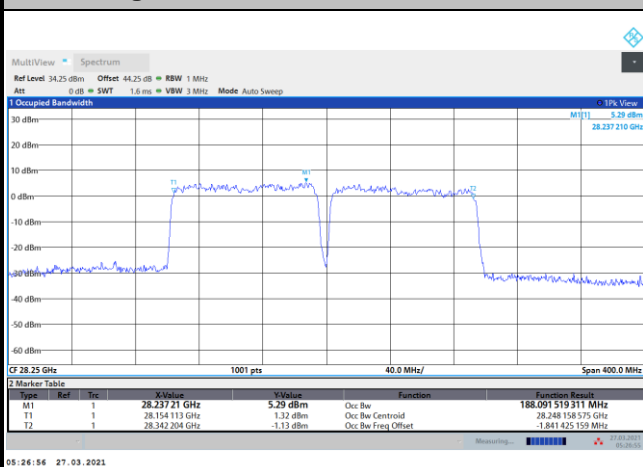
Middle Channel / 200MHz / 16QAM



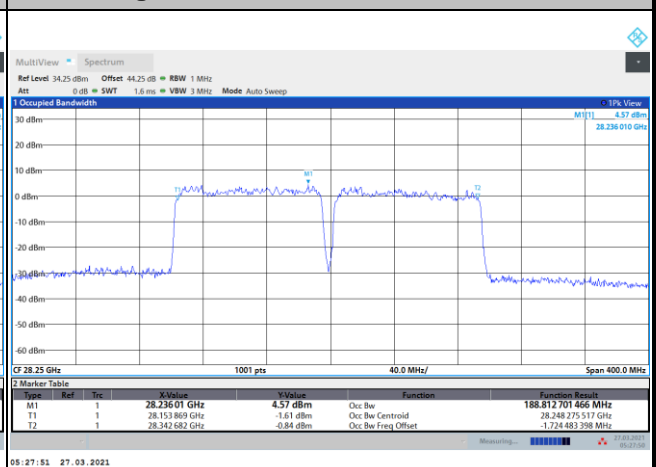
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM





**Radiated Out of Band Emissions**

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB											
BW			50MHz				100MHz				200MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-12.57	-13.04	-14.03	-16.85	-13.83	-13.34	-15.73	-18.92	-21.46	-20.82	-21.75	-22.00
	>10%OB	≤ -13	-34.75	-34.55	-35.33	-37.92	-36.23	-36.31	-37.09	-39.50	-28.00	-26.88	-25.24	-26.11
High CH	0~10%OB	≤ -5	-17.61	-18.88	-21.73	-19.62	-18.80	-18.57	-20.08	-22.54	-27.14	-27.45	-27.08	-27.64
	>10%OB	≤ -13	-37.79	-37.81	-38.66	-39.90	-40.05	-39.78	-40.90	-41.35	-29.73	-31.03	-30.06	-29.50
Result			Compliance											

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) Full RB											
BW			50MHz				100MHz				200MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-25.50	-23.68	-27.99	-31.58	-29.32	-26.72	-32.66	-34.33	-34.16	-33.96	-35.85	-37.19
	>10%OB	≤ -13	-29.60	-24.99	-31.89	-34.55	-34.53	-27.59	-34.39	-37.60	-36.01	-35.32	-37.01	-38.96
High CH	0~10%OB	≤ -5	-30.29	-26.50	-32.08	-34.85	-35.29	-30.64	-36.37	-38.74	-38.56	-38.09	-39.62	-40.42
	>10%OB	≤ -13	-33.34	-28.29	-34.40	-37.61	-38.23	-32.94	-37.75	-40.21	-39.96	-39.29	-40.63	-41.55
Result			Compliance											

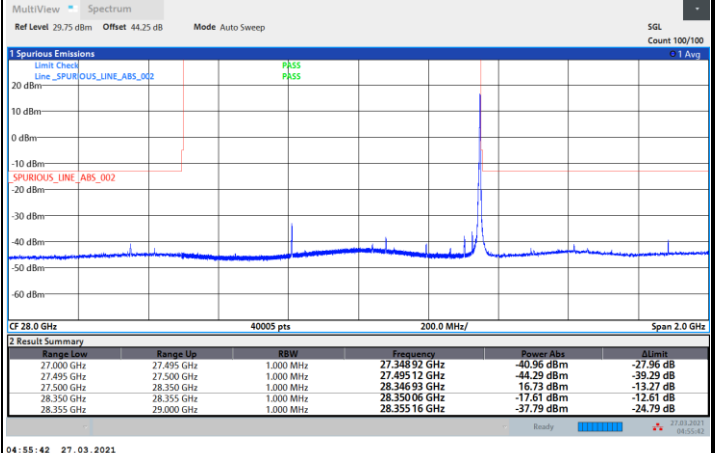
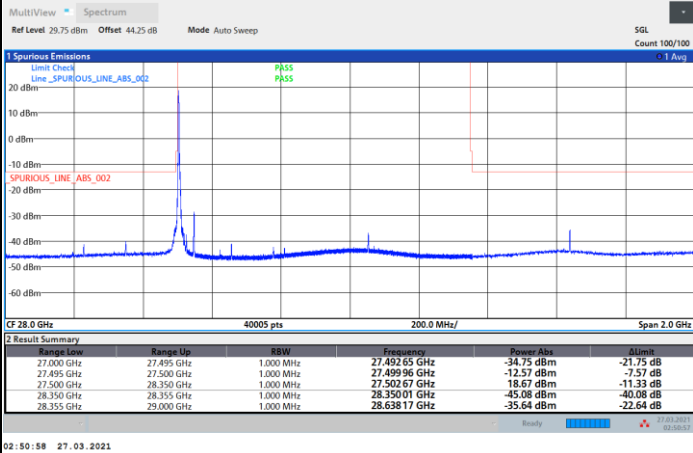


DFT-s-OFDM Module 0

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / 1 RB

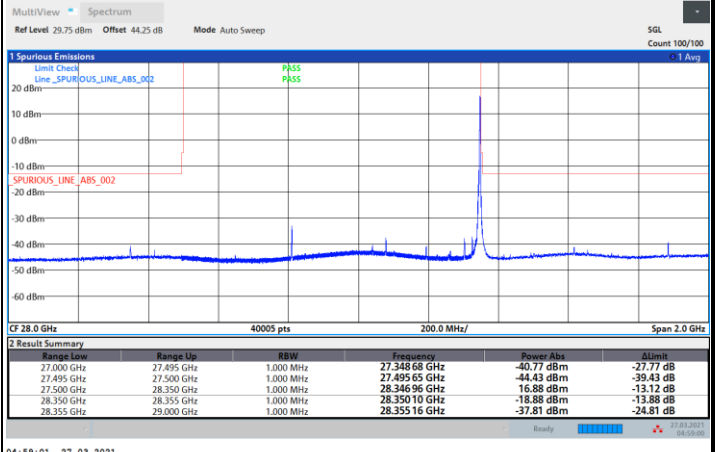
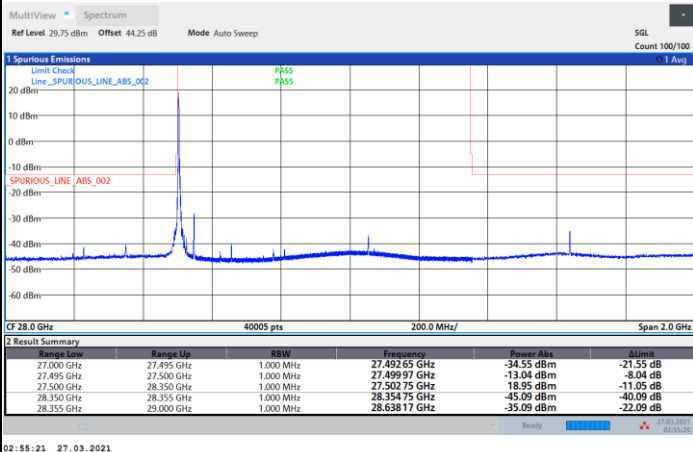
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



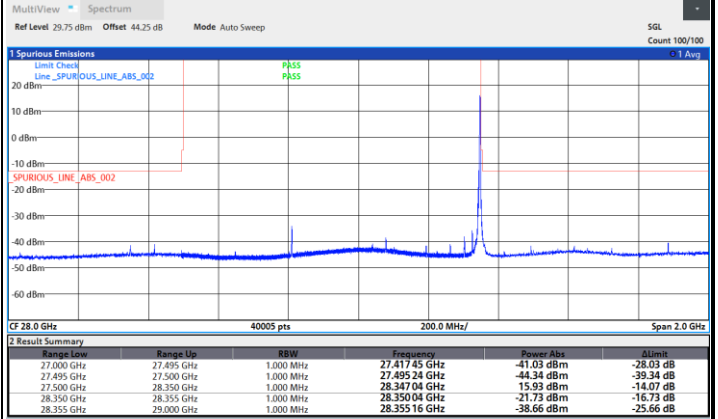
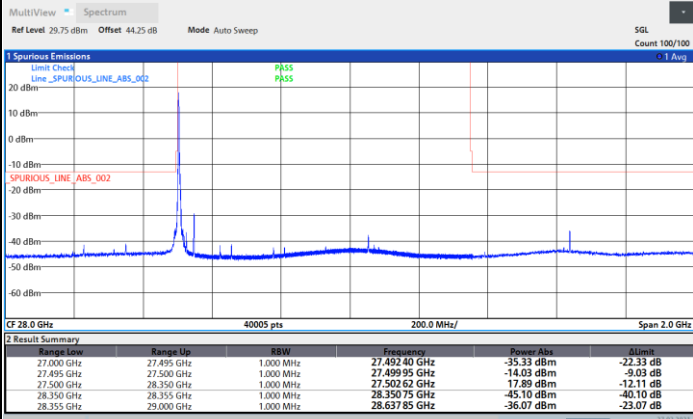


DFT-s-OFDM Module 0

NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB

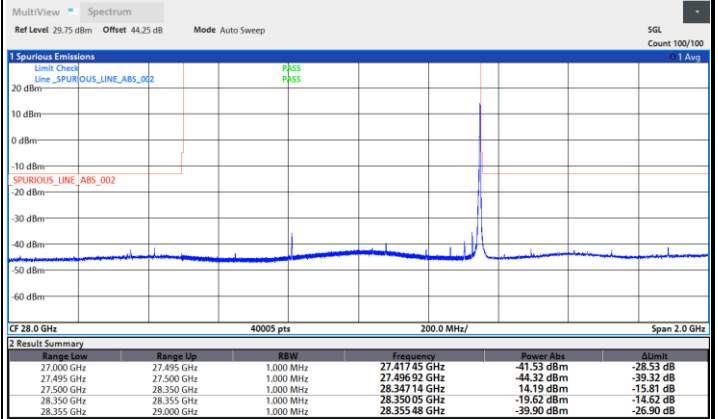
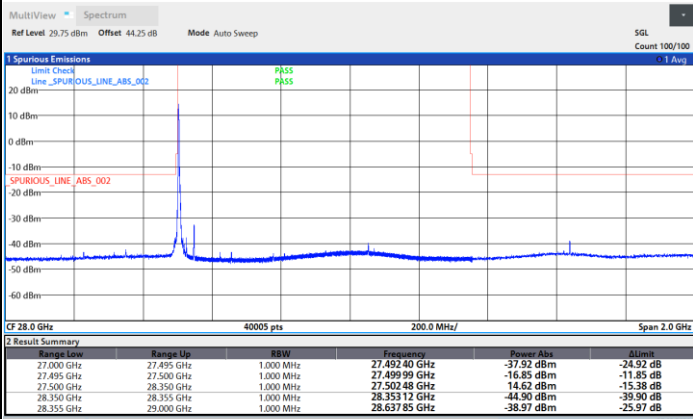
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



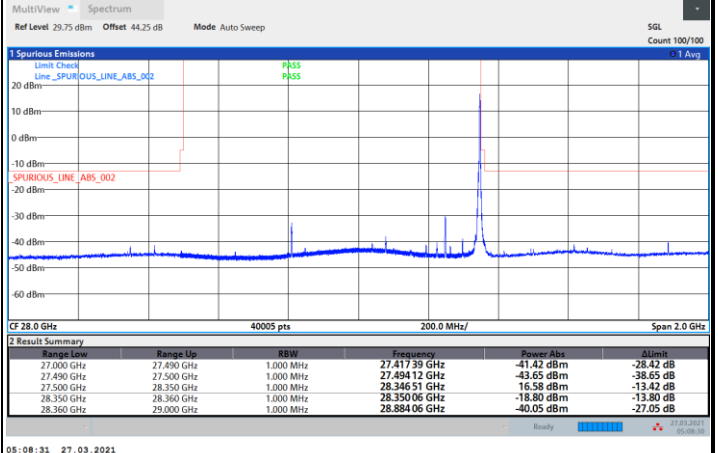
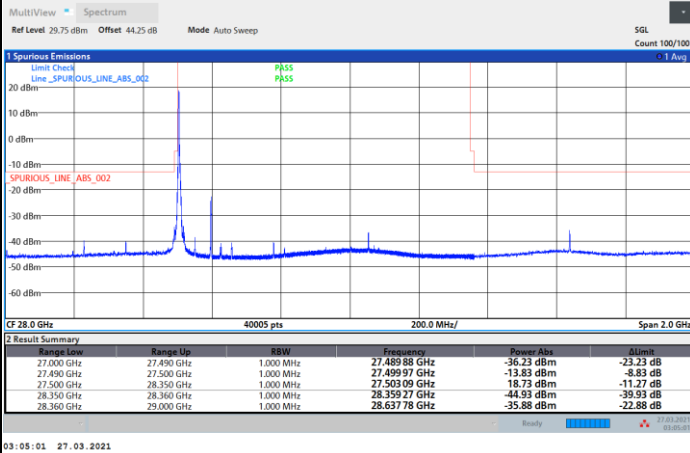


DFT-s-OFDM Module 0

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / 1 RB

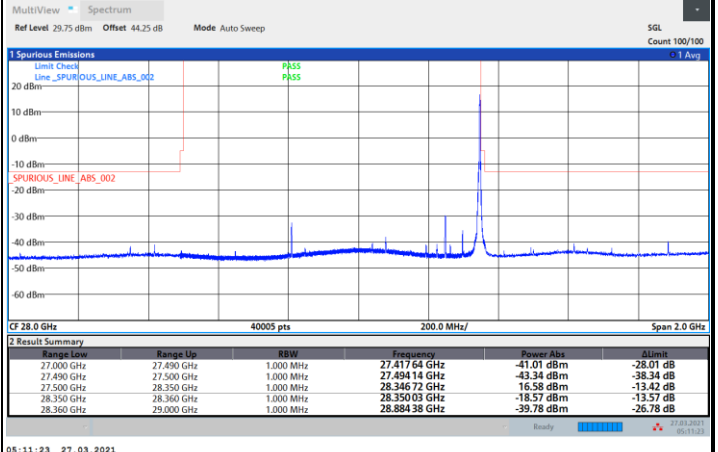
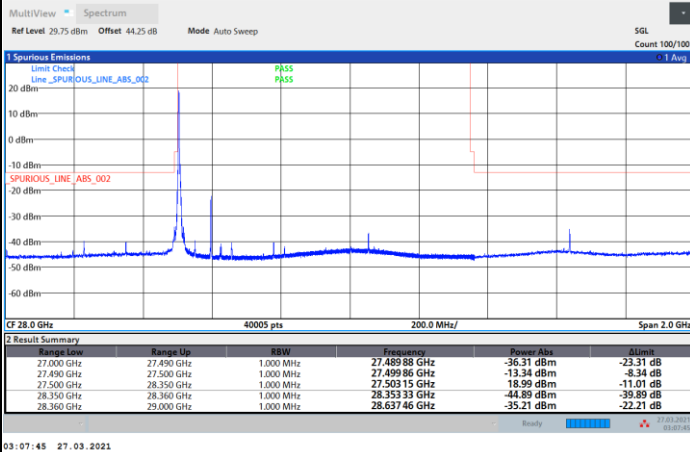
Highest Band Edge / 1 RB



NR Band n261 / 100MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



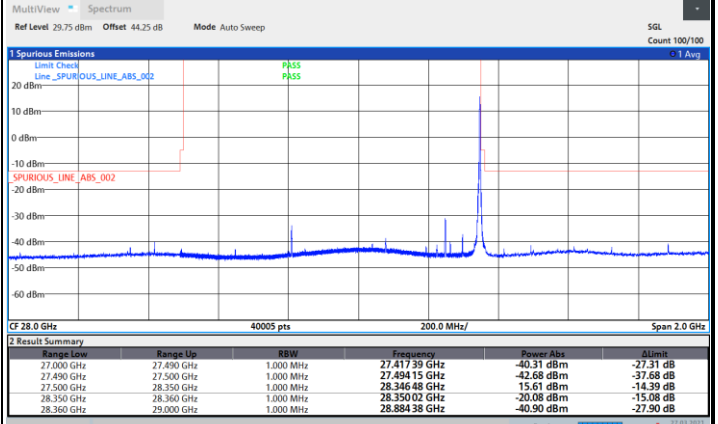
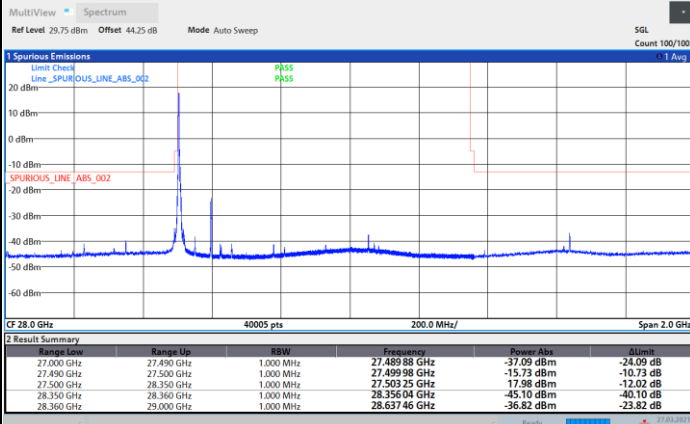


DFT-s-OFDM Module 0

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

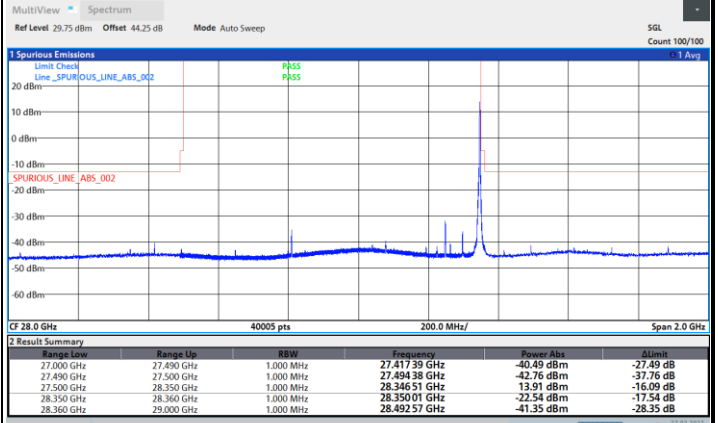
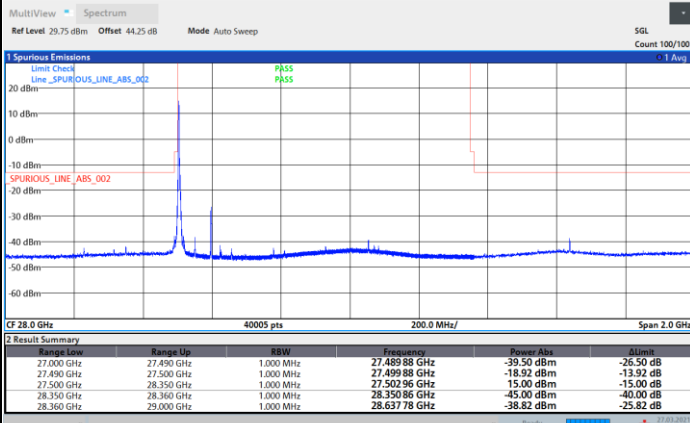
Highest Band Edge / 1 RB



NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



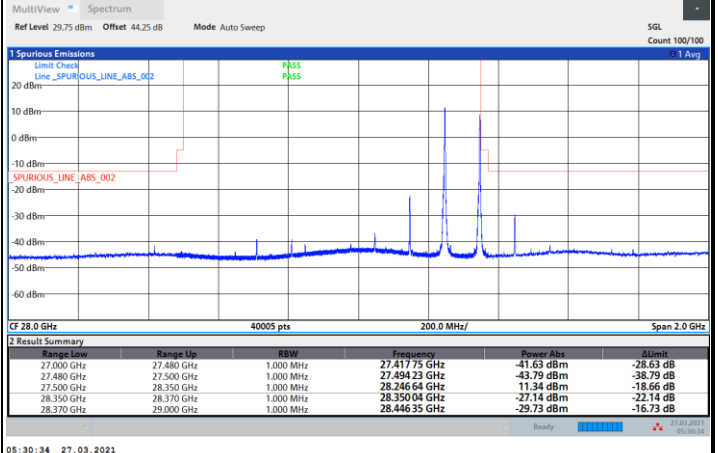
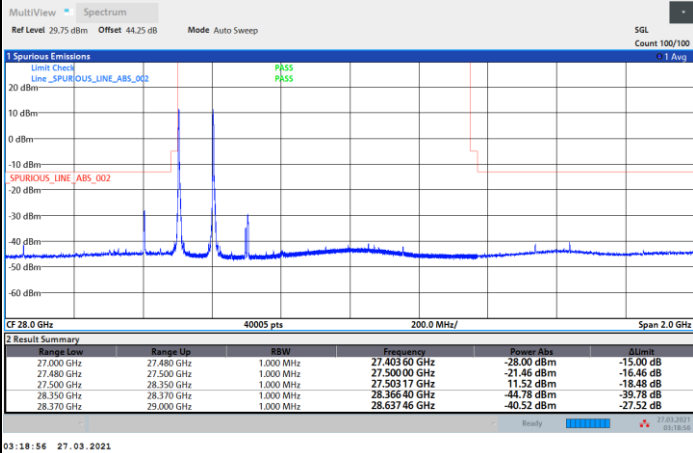


DFT-s-OFDM Module 0

NR Band n261 / 200MHz / BPSK

Lowest Band Edge / 1 RB

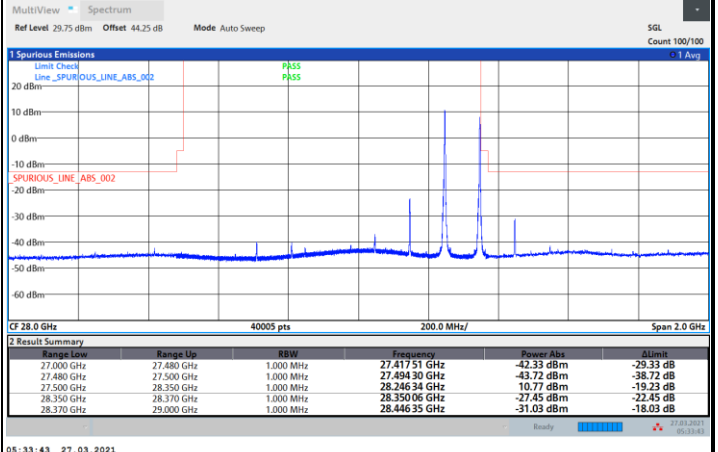
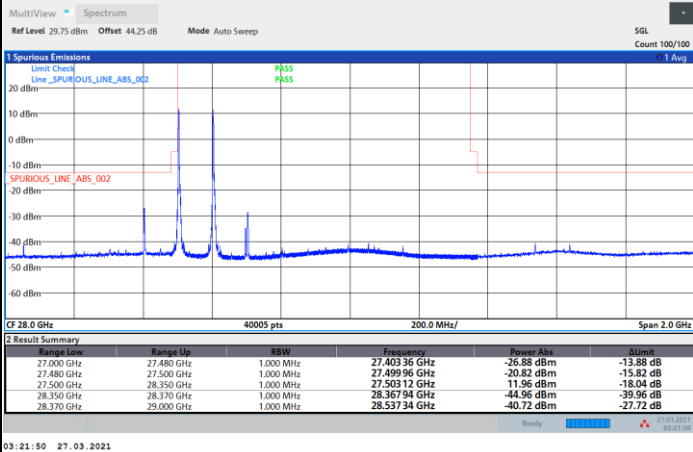
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB





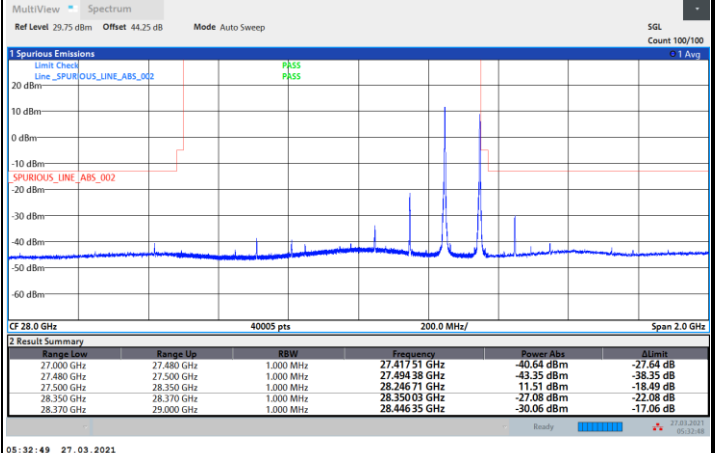
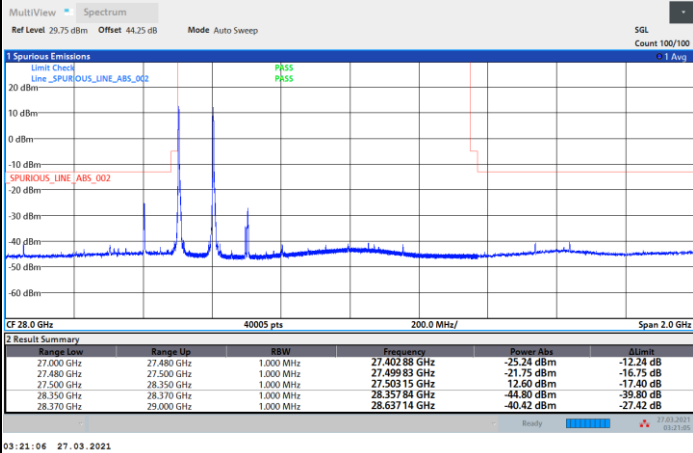


DFT-s-OFDM Module 0

NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / 1 RB

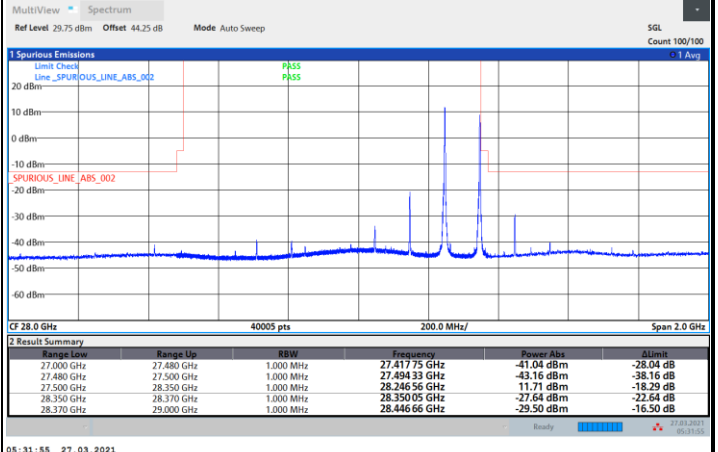
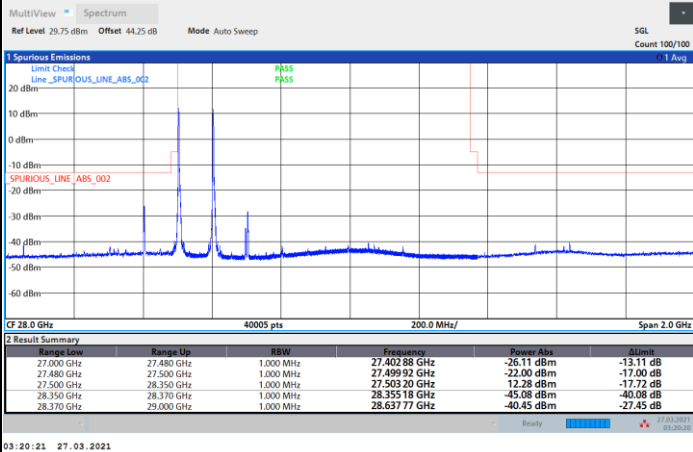
Highest Band Edge / 1 RB



NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



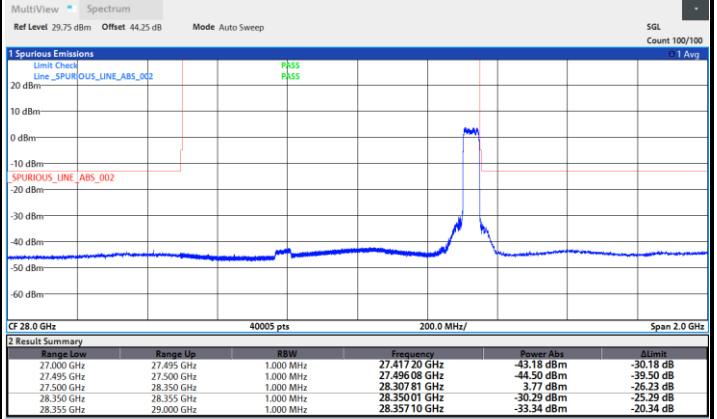
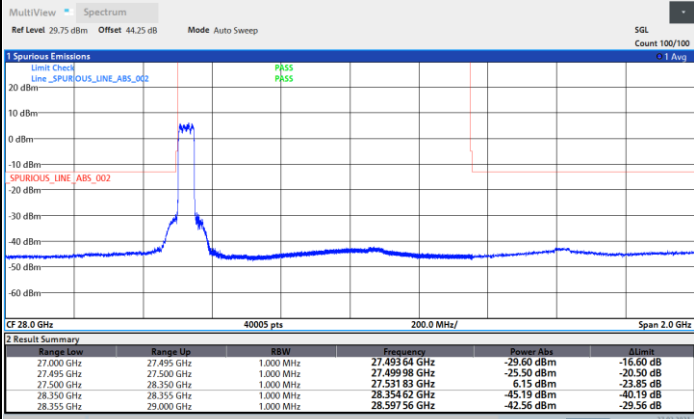


DFT-s-OFDM Module 0

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / Full RB

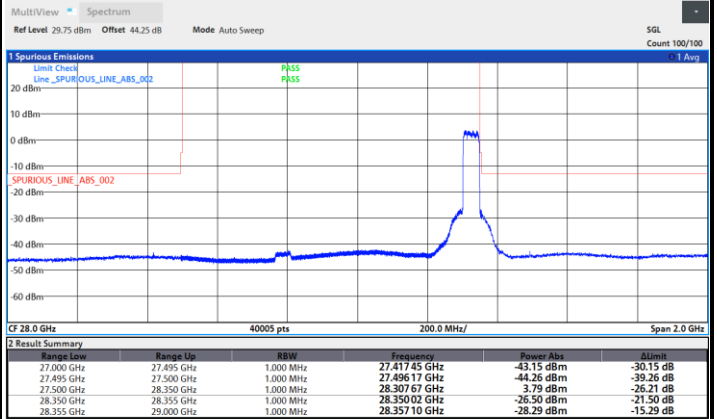
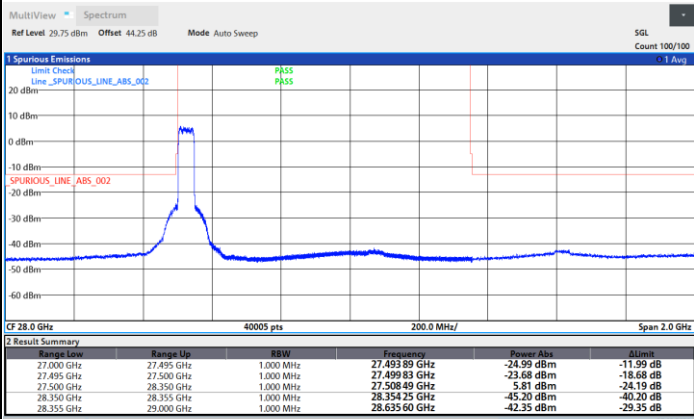
Highest Band Edge / Full RB



NR Band n261 / 50MHz / QPSK

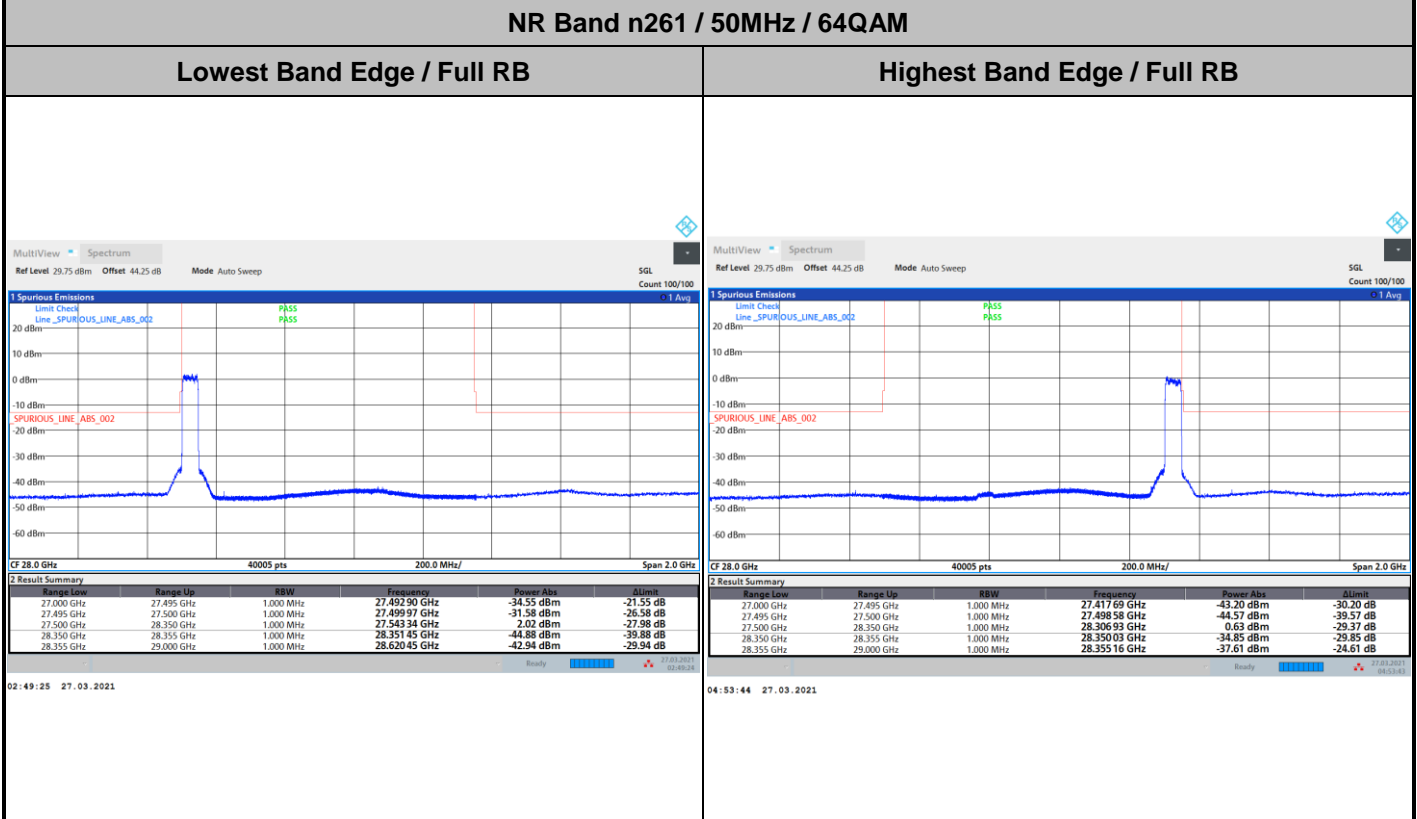
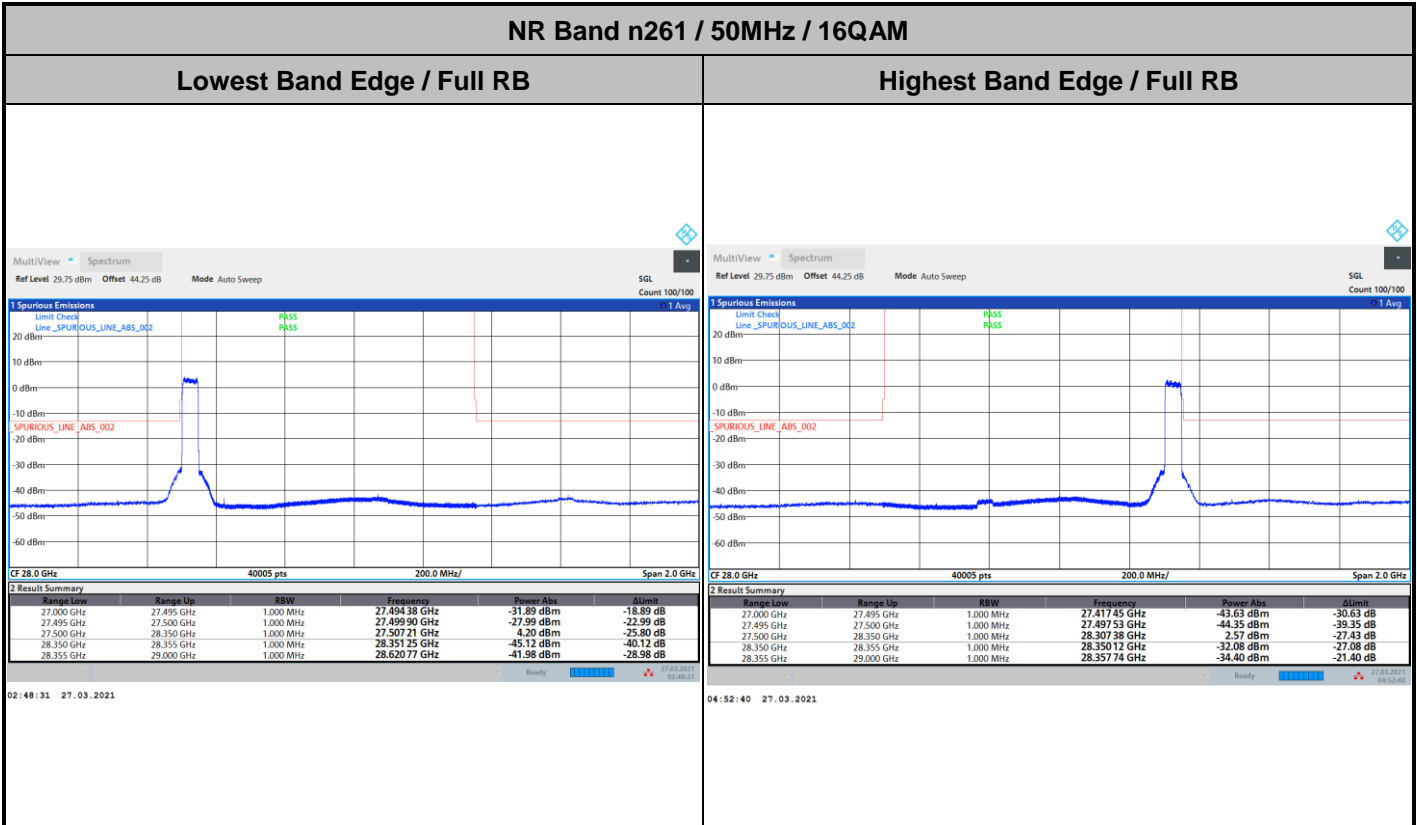
Lowest Band Edge / Full RB

Highest Band Edge / Full RB





DFT-s-OFDM Module 0

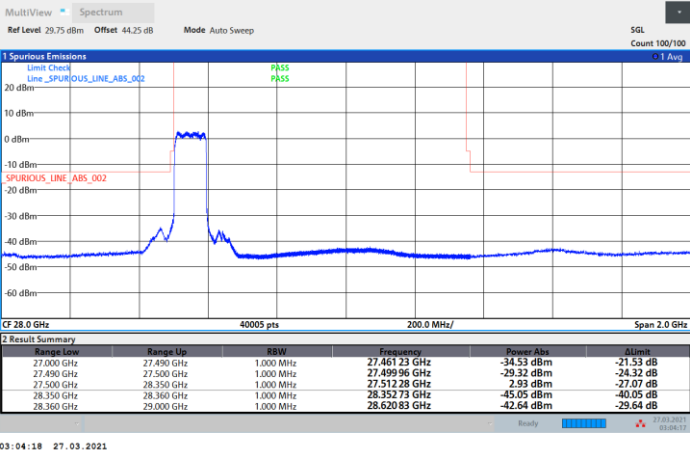




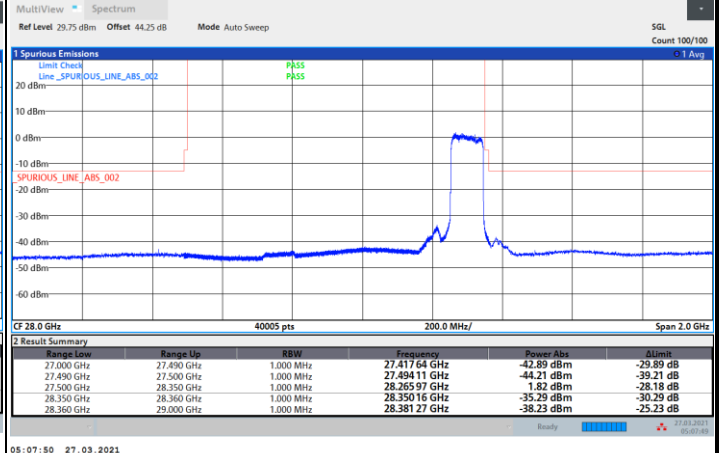
DFT-s-OFDM Module 0

NR Band n261 / 100MHz / BPSK

Lowest Band Edge / Full RB

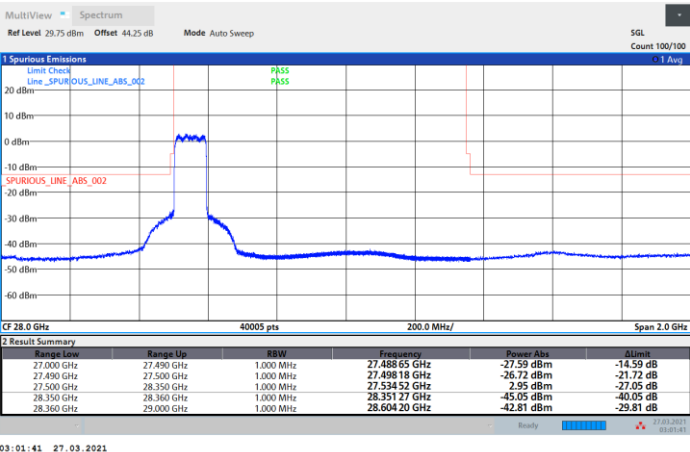


Highest Band Edge / Full RB



NR Band n261 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

