



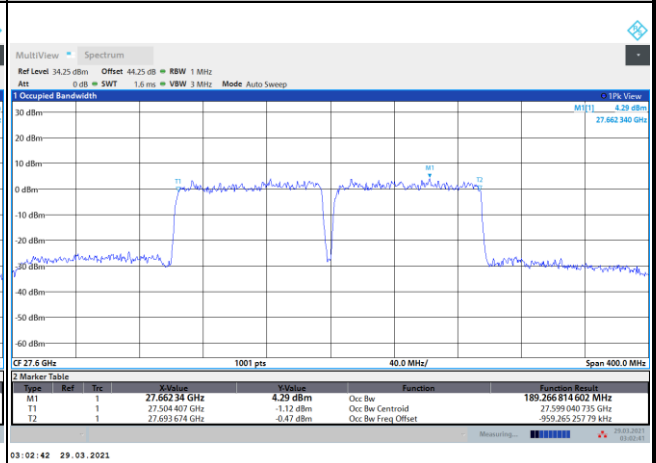
DFT-s-OFDM Module 1

NR Band n261

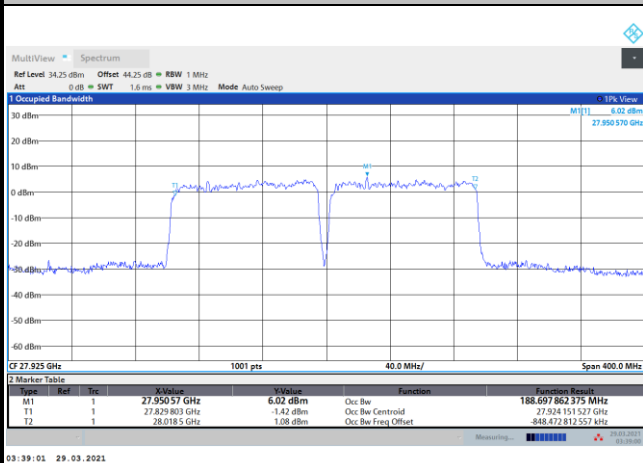
Lowest Channel / 200MHz / BPSK



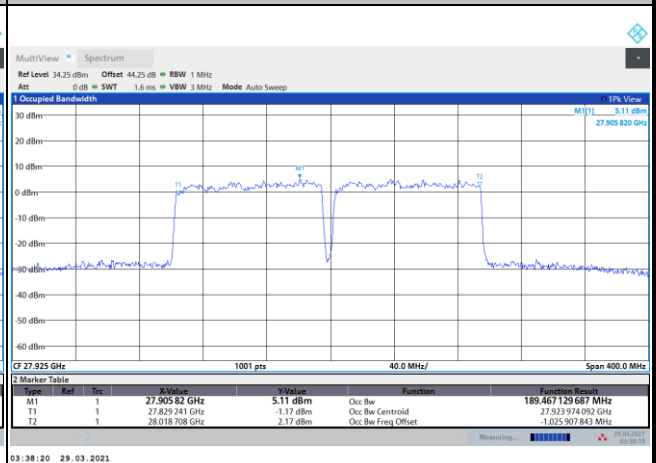
Lowest Channel / 200MHz / QPSK



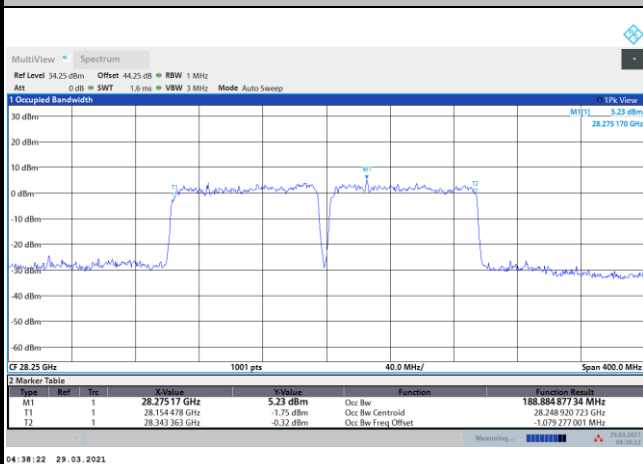
Middle Channel / 200MHz / BPSK



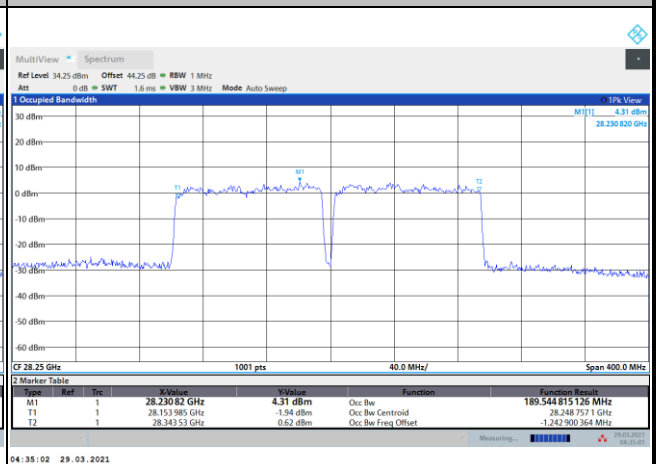
Middle Channel / 200MHz / QPSK



Highest Channel / 200MHz / BPSK



Highest Channel / 200MHz / QPSK

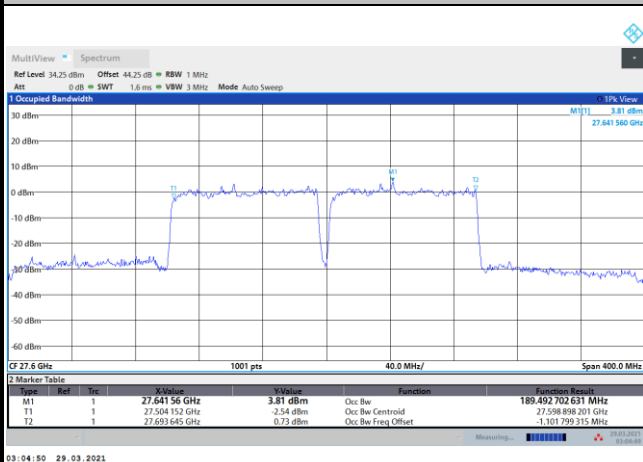




DFT-s-OFDM Module 1

NR Band n261

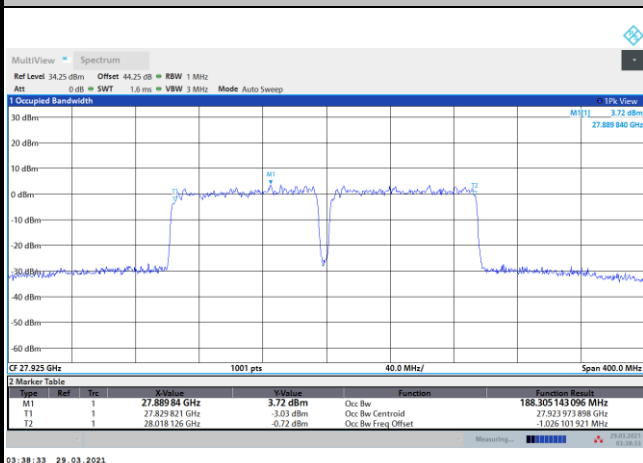
Lowest Channel / 200MHz / 16QAM



Lowest Channel / 200MHz / 64QAM



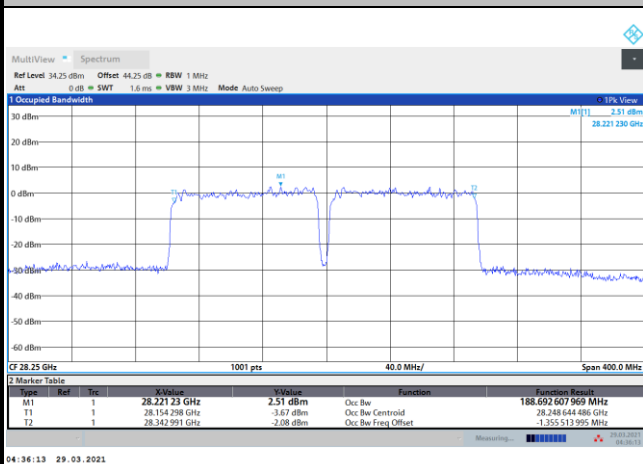
Middle Channel / 200MHz / 16QAM



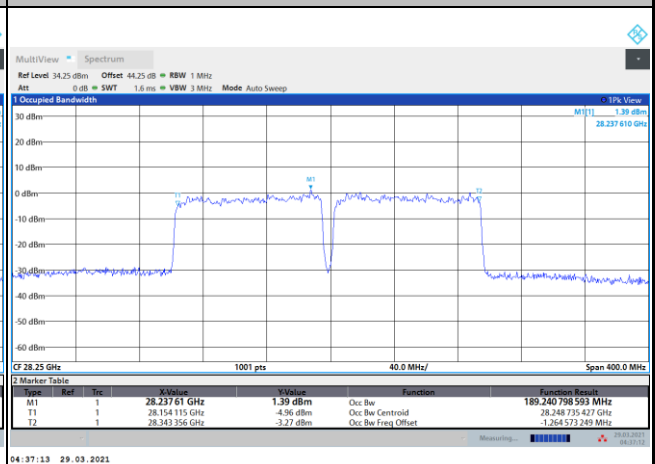
Middle Channel / 200MHz / 64QAM



Highest Channel / 200MHz / 16QAM



Highest Channel / 200MHz / 64QAM





Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 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	-16.27	-14.66	-15.90	-19.75	-16.64	-15.78	-19.44	-19.66	-26.63	-25.70	-26.67	-24.77
	>10%OB	≤-13	-32.55	-31.71	-33.79	-36.56	-34.75	-34.69	-36.15	-37.85	-25.40	-25.21	-24.21	-23.94
High CH	0~10%OB	≤-5	-23.05	-22.72	-23.86	-26.08	-18.06	-19.96	-20.25	-23.68	-27.70	-28.50	-28.59	-29.17
	>10%OB	≤-13	-31.13	-31.14	-33.02	-35.30	-38.36	-38.12	-39.87	-40.24	-27.81	-27.92	-27.55	-27.62
Result			Compliance											

Mode			DFT-s-OFDM Module 1 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	-27.47	-26.05	-29.90	-31.18	-31.40	-29.24	-33.02	-34.79	-33.48	-33.18	-33.96	-36.27
	>10%OB	≤-13	-30.63	-26.80	-31.62	-33.42	-34.97	-30.78	-34.70	-36.59	-33.79	-33.74	-35.17	-37.25
High CH	0~10%OB	≤-5	-30.74	-26.81	-32.50	-34.57	-34.34	-30.40	-34.94	-37.63	-36.47	-36.52	-38.10	-40.26
	>10%OB	≤-13	-32.07	-27.95	-33.04	-35.81	-36.24	-32.01	-36.45	-38.83	-37.48	-37.71	-39.43	-40.93
Result			Compliance											

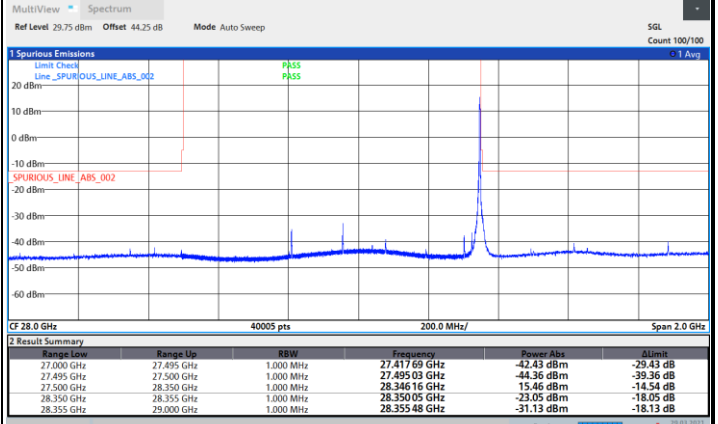
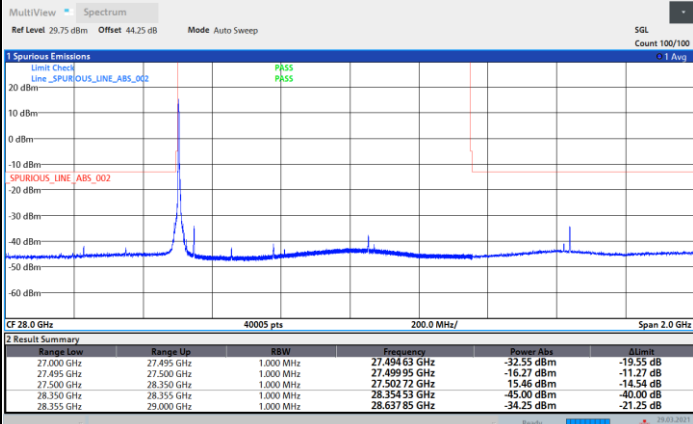


DFT-s-OFDM Module 1

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / 1 RB

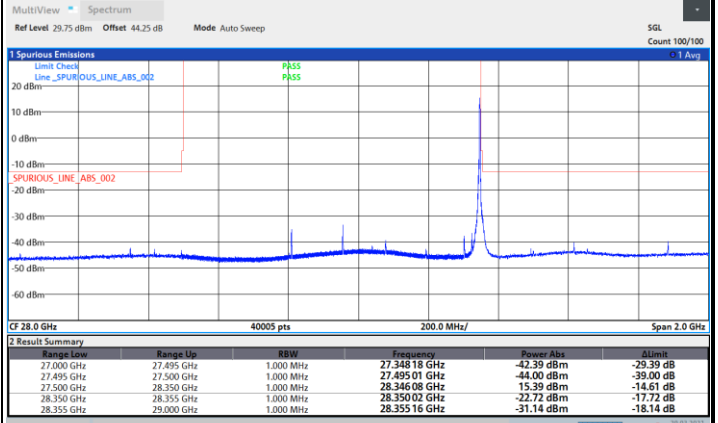
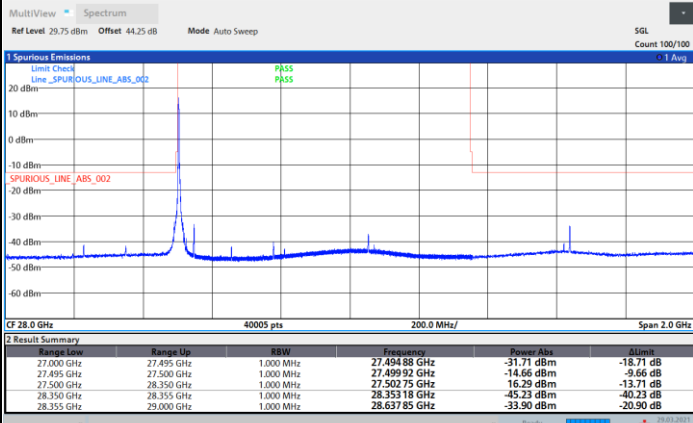
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

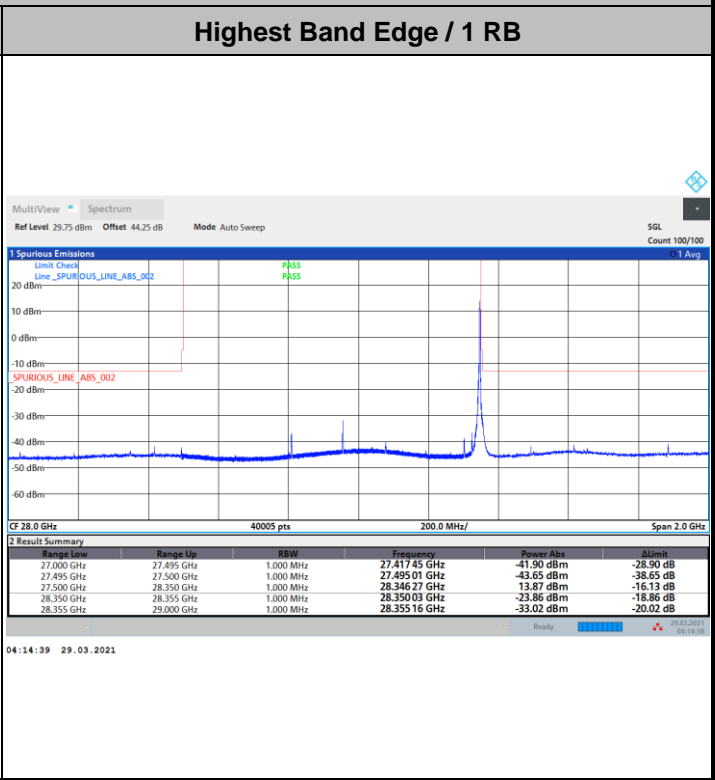
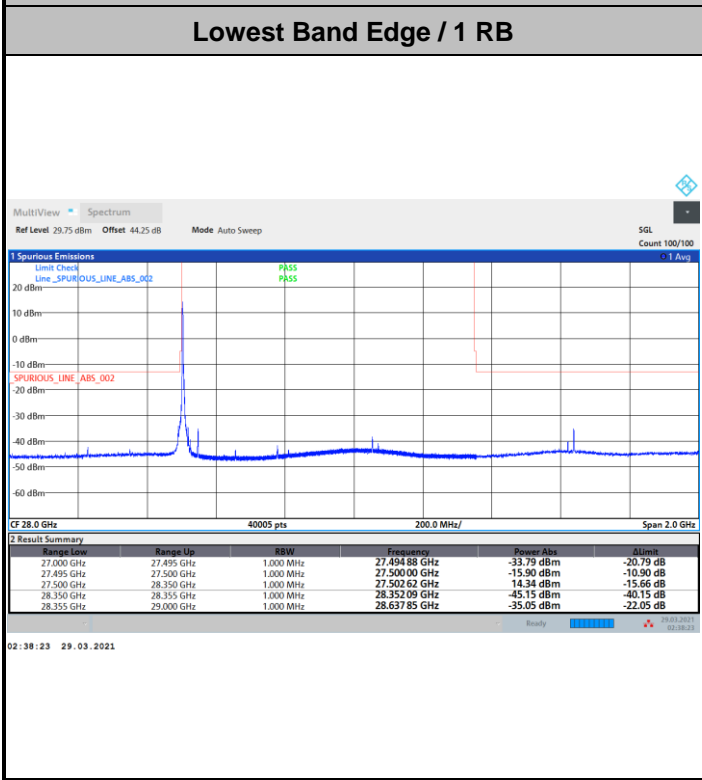
Highest Band Edge / 1 RB



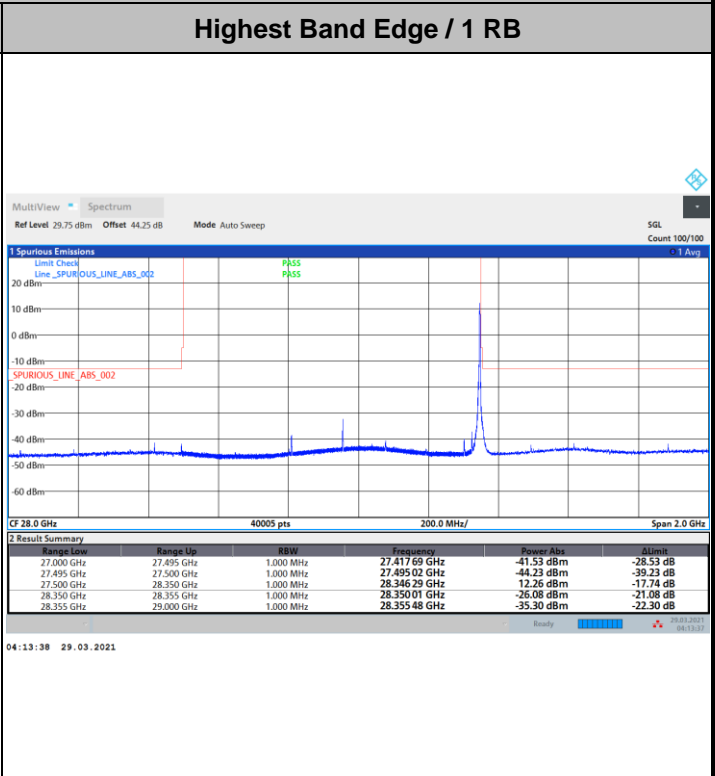
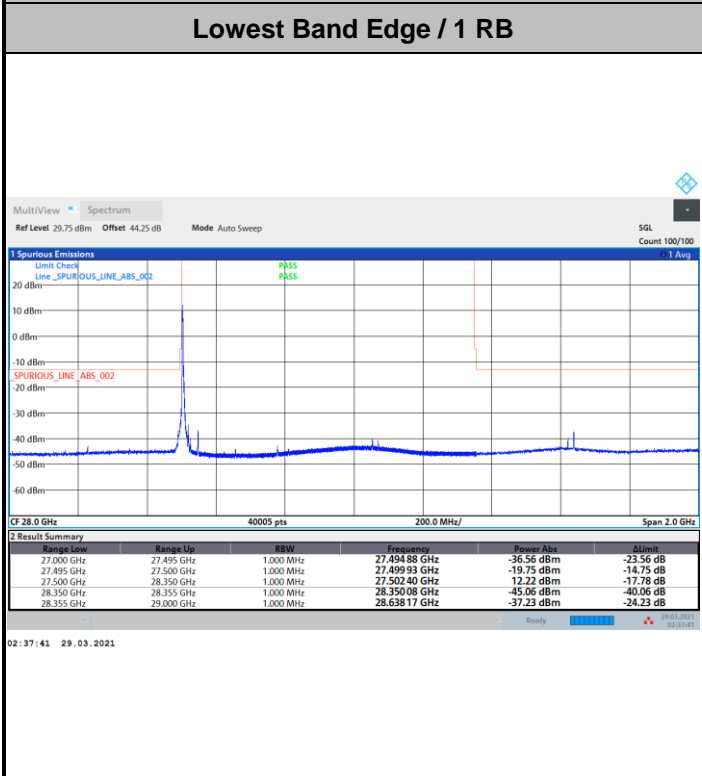


DFT-s-OFDM Module 1

NR Band n261 / 50MHz / 16QAM



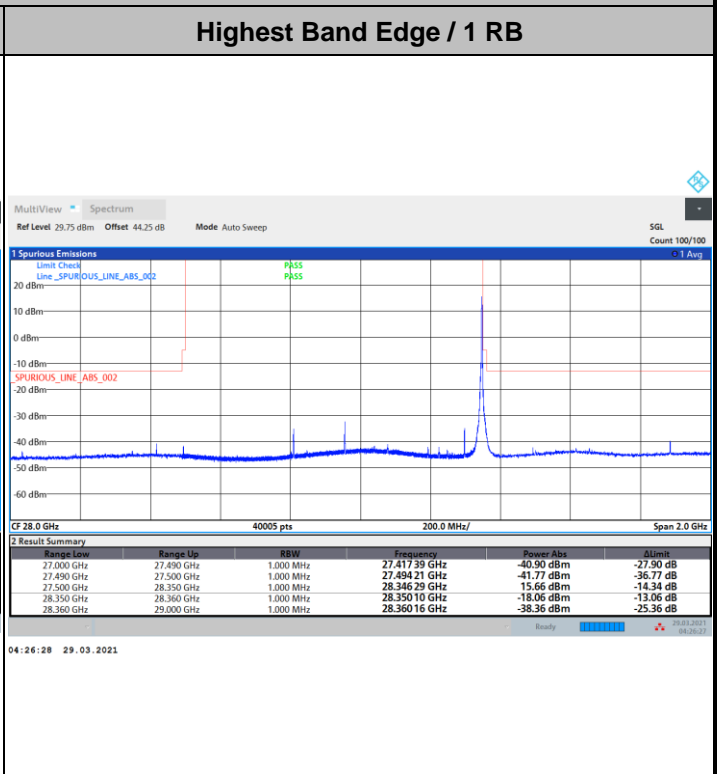
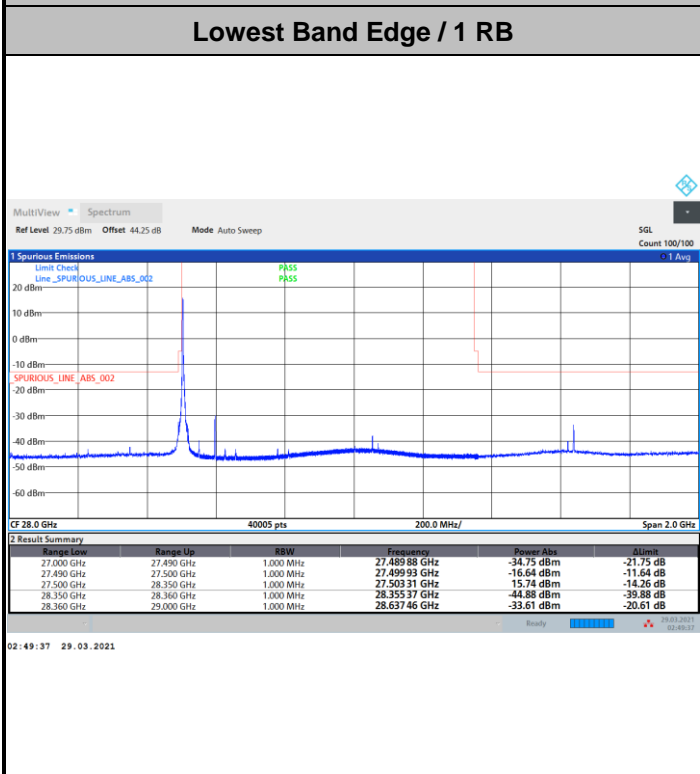
NR Band n261 / 50MHz / 64QAM



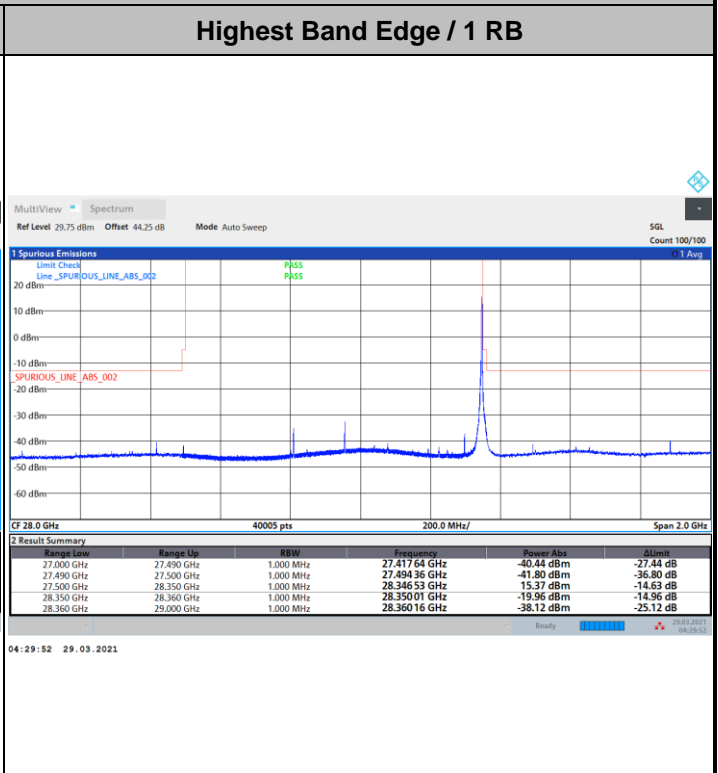
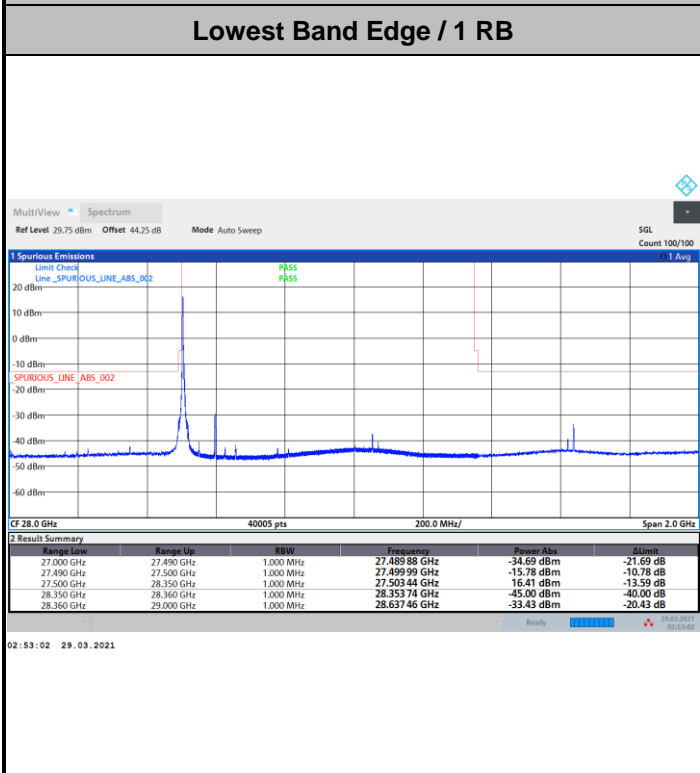


DFT-s-OFDM Module 1

NR Band n261 / 100MHz / BPSK



NR Band n261 / 100MHz / QPSK



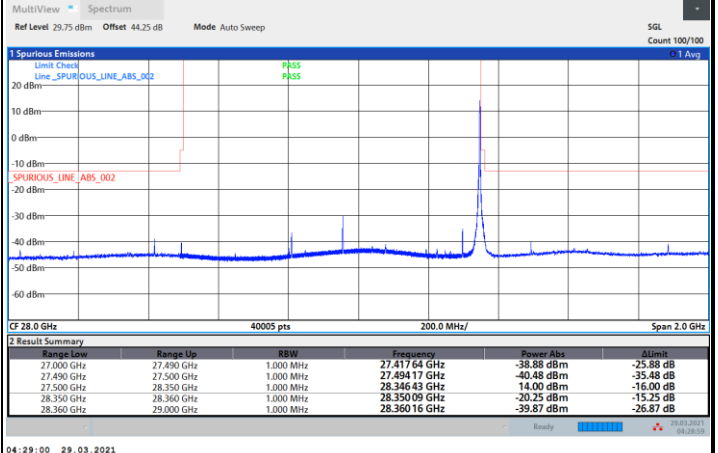
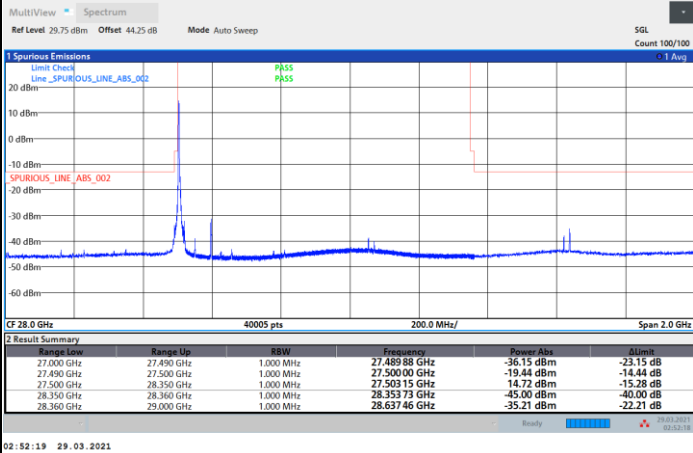


DFT-s-OFDM Module 1

NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / 1 RB

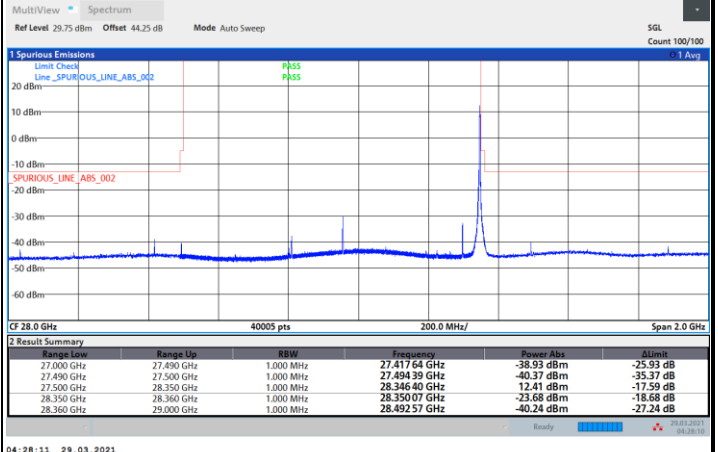
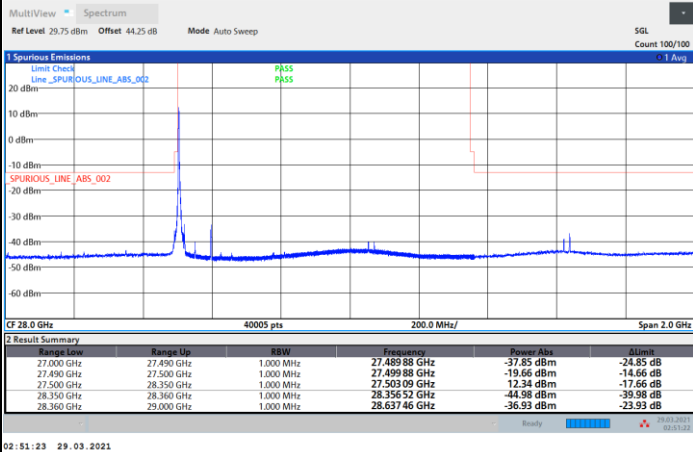
Highest Band Edge / 1 RB



NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / 1 RB

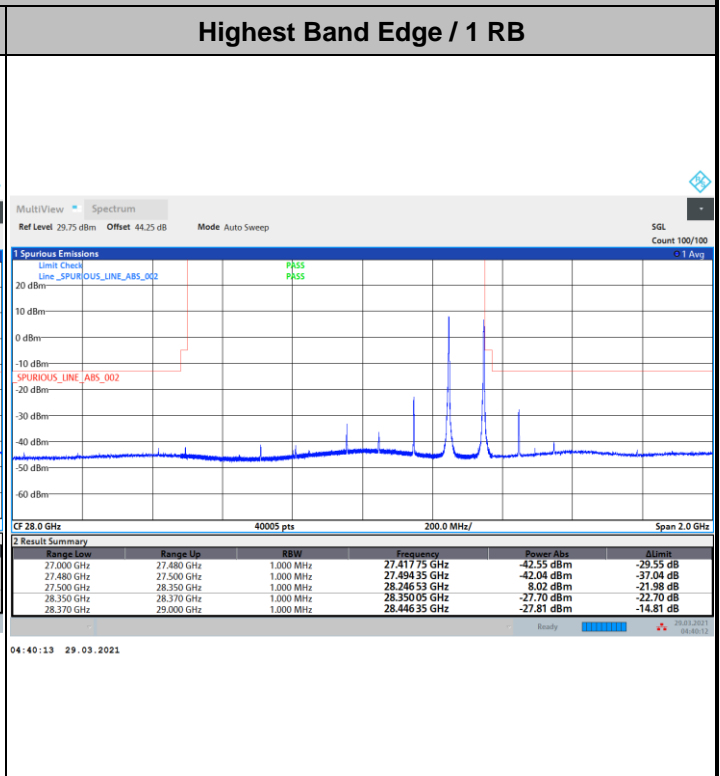
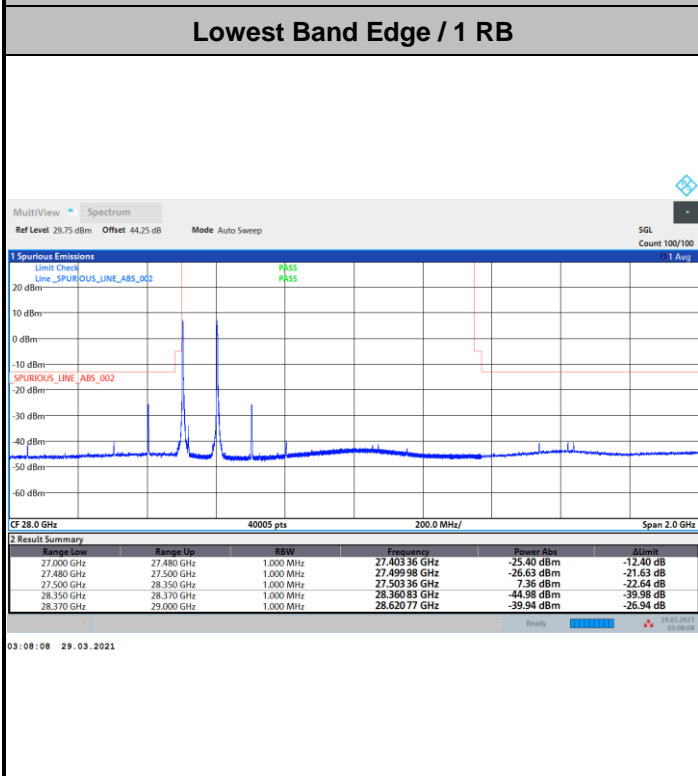
Highest Band Edge / 1 RB



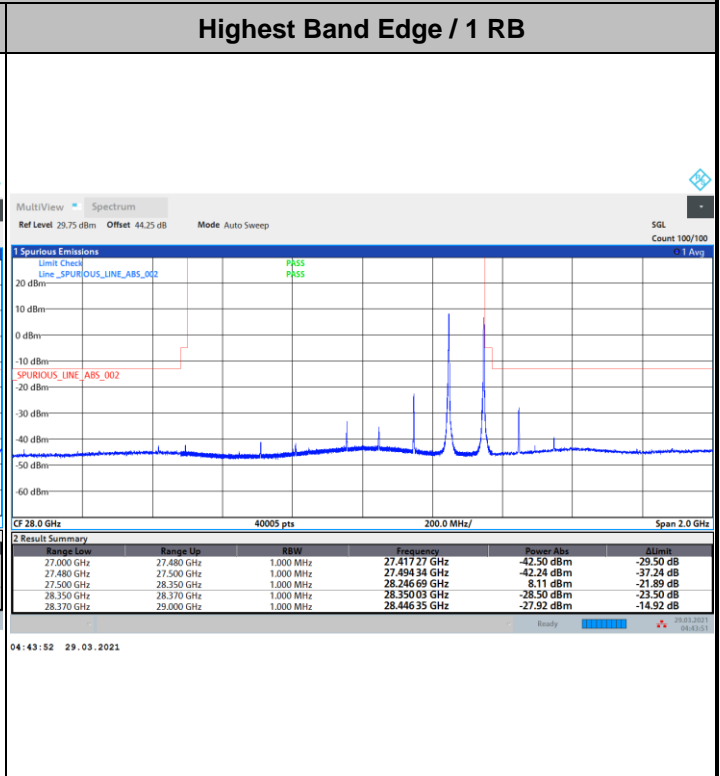
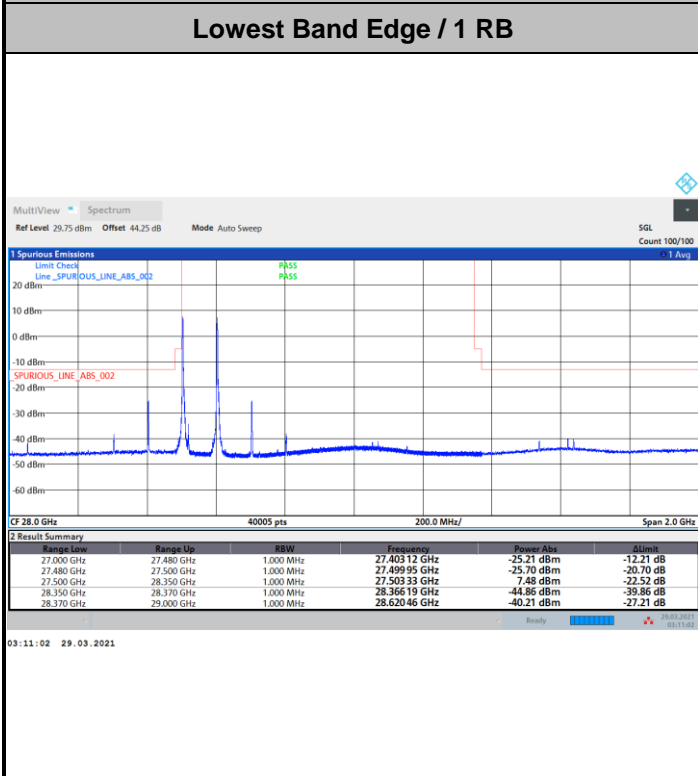


DFT-s-OFDM Module 1

NR Band n261 / 200MHz / BPSK



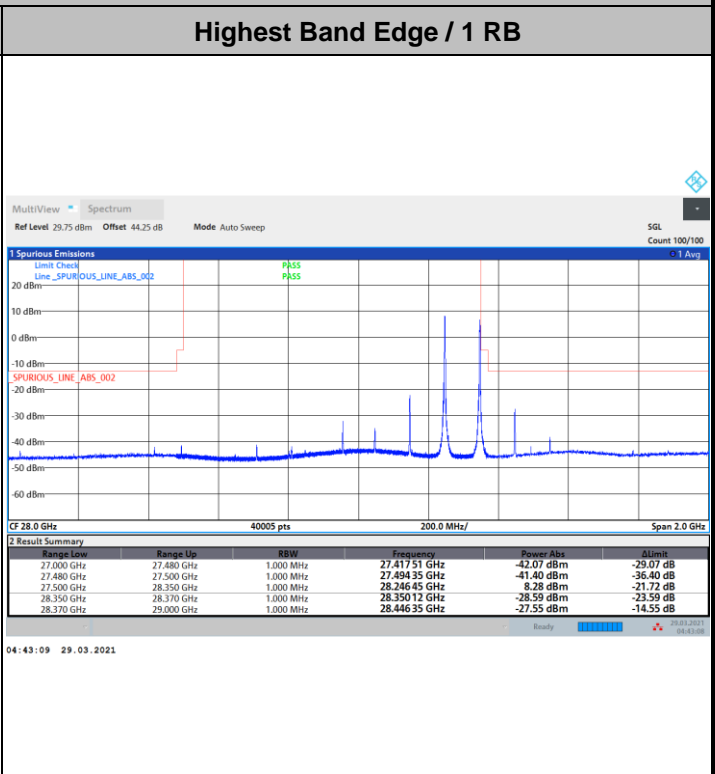
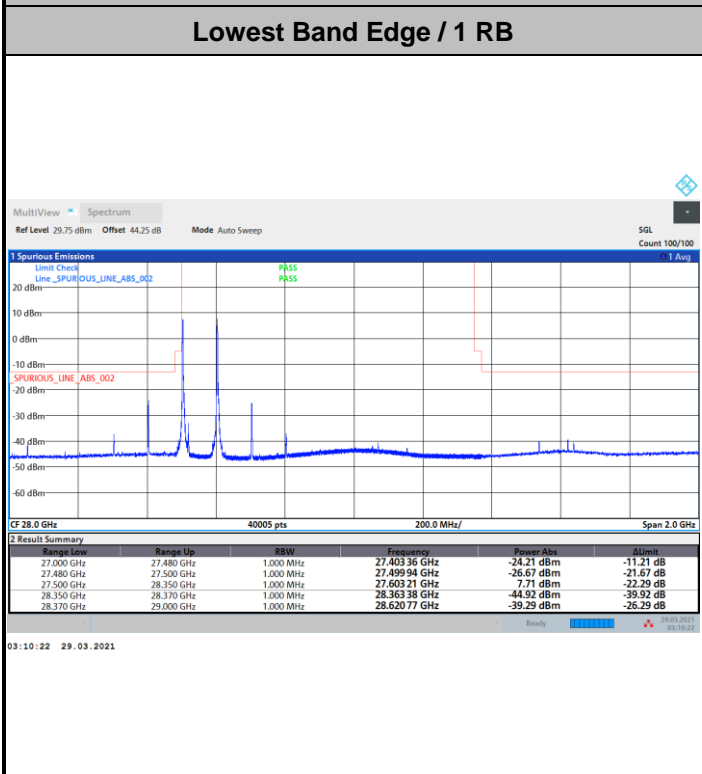
NR Band n261 / 200MHz / QPSK



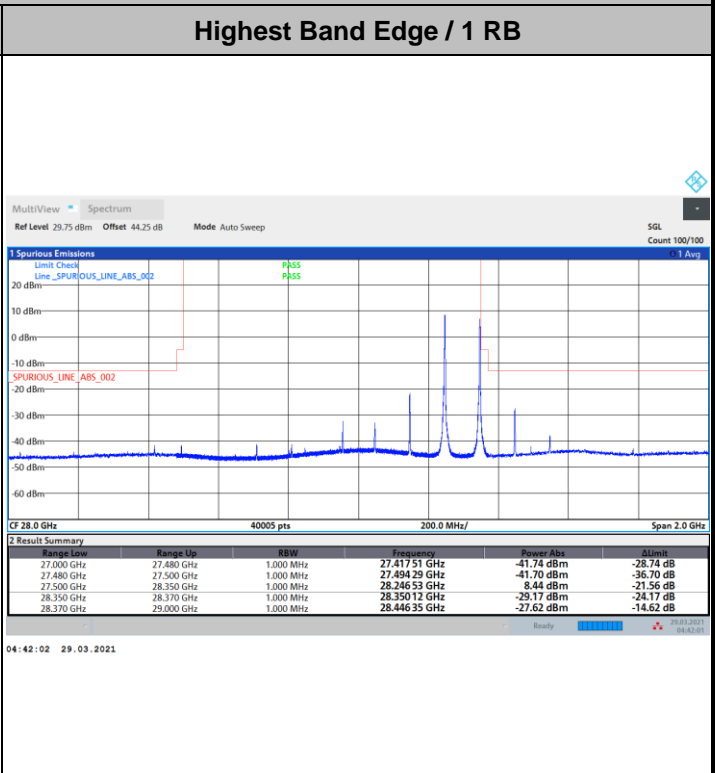
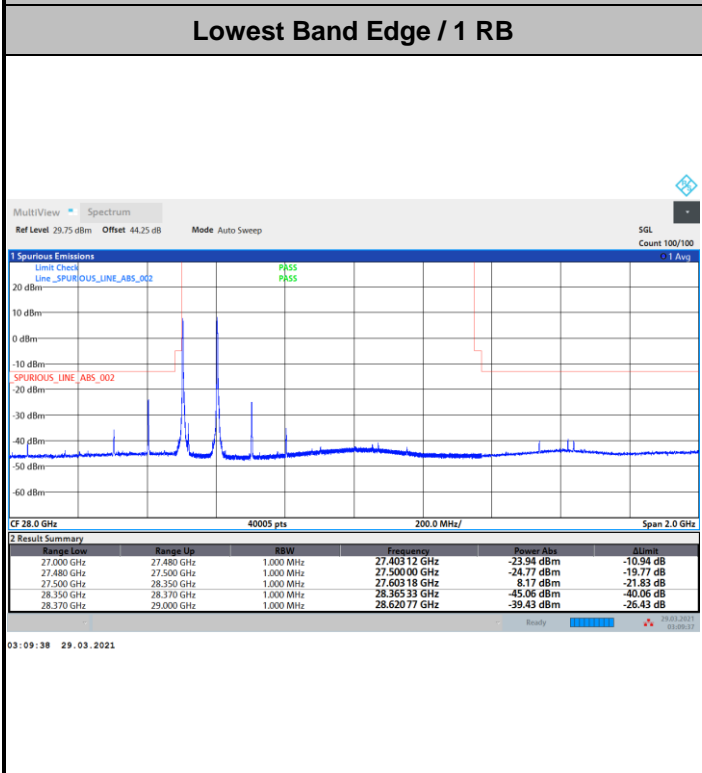


DFT-s-OFDM Module 1

NR Band n261 / 200MHz / 16QAM



NR Band n261 / 200MHz / 64QAM

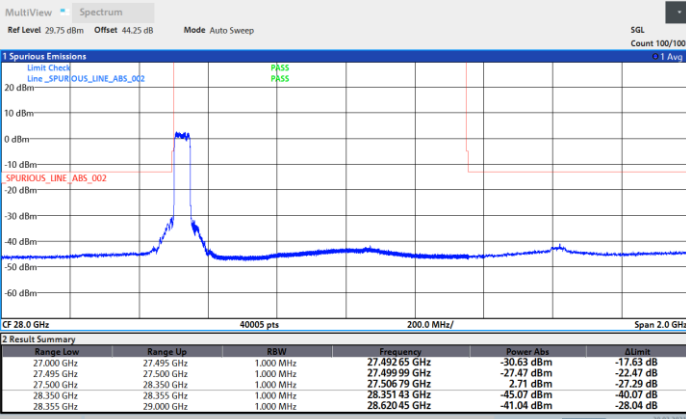




DFT-s-OFDM Module 1

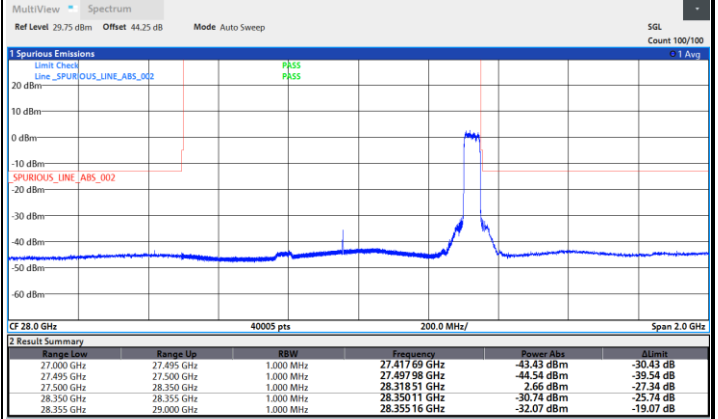
NR Band n261 / 50MHz / BPSK

Lowest Band Edge / Full RB



02:35:14 29.03.2021

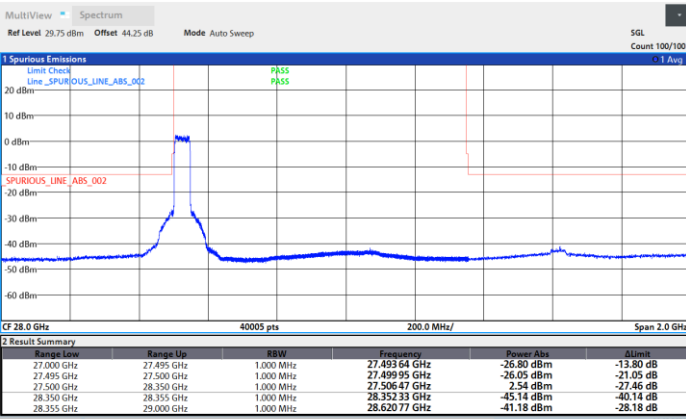
Highest Band Edge / Full RB



04:10:59 29.03.2021

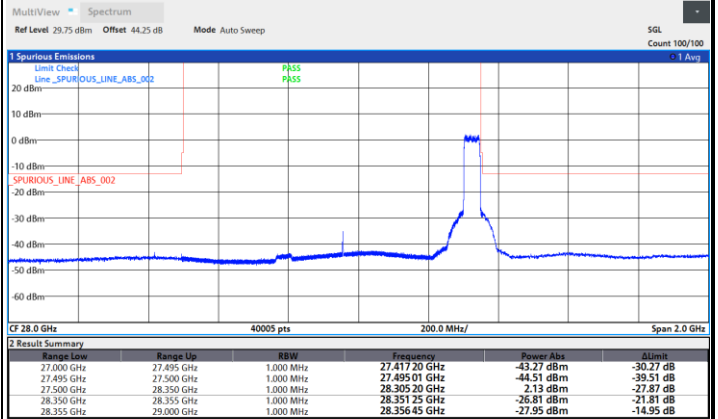
NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB



02:32:40 29.03.2021

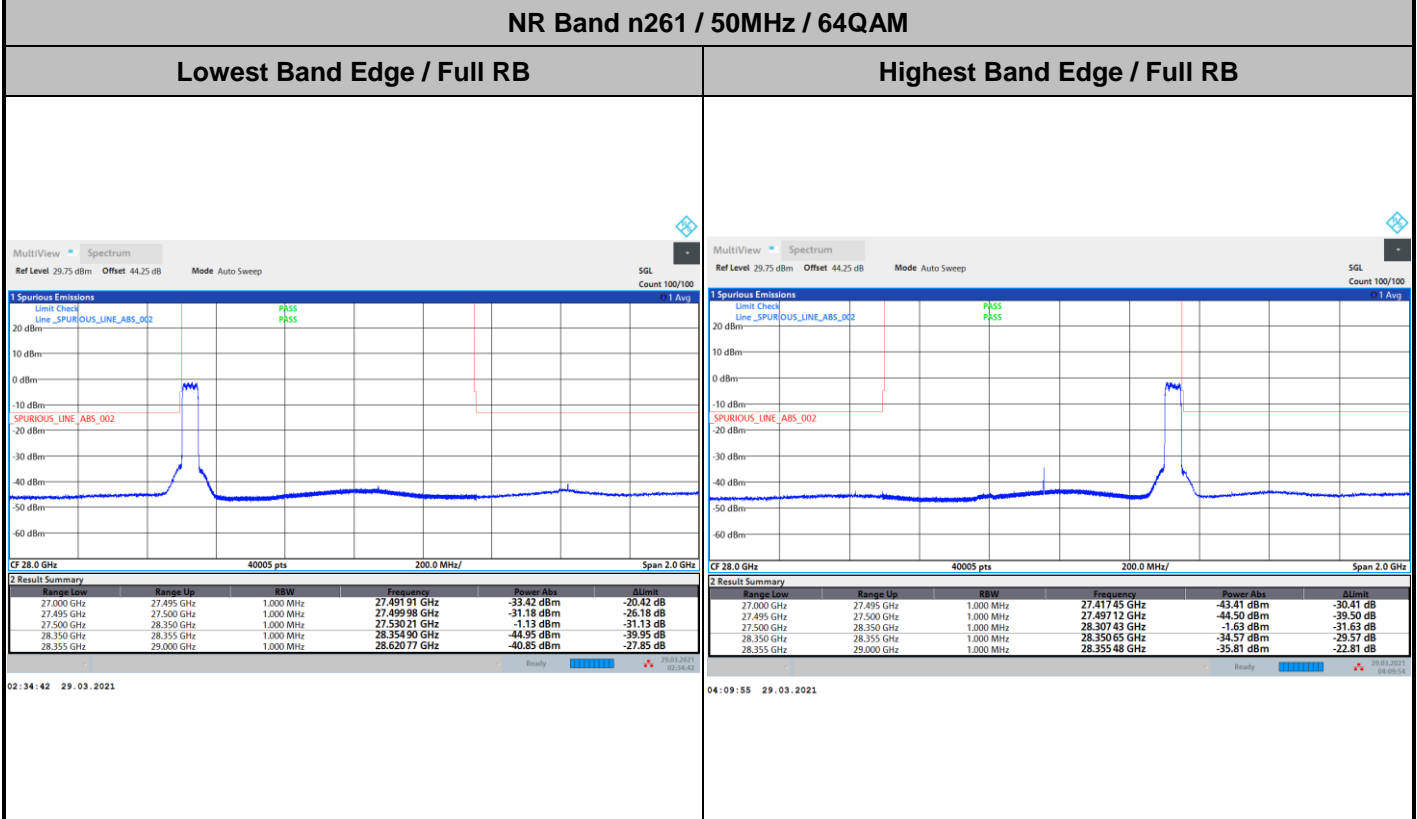
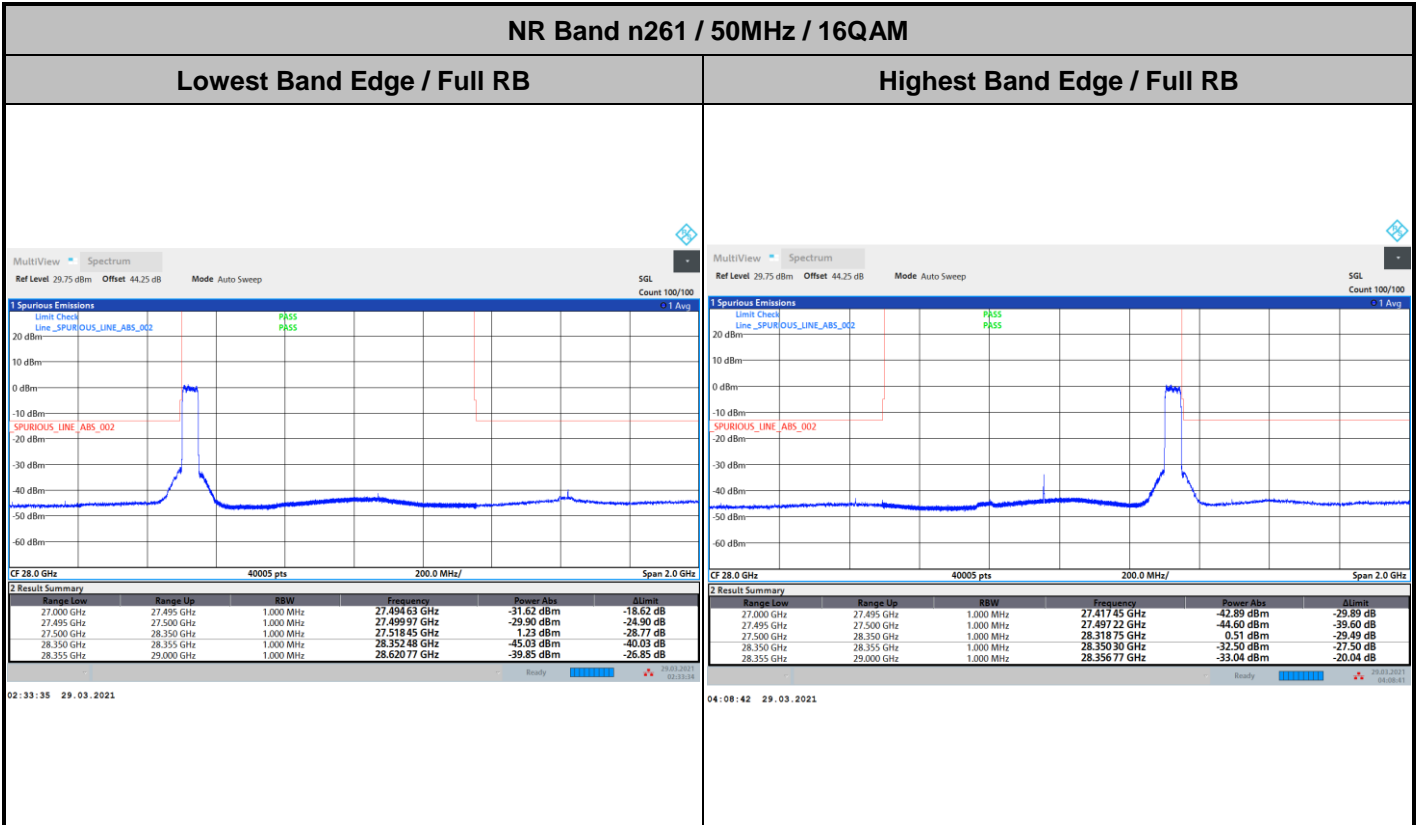
Highest Band Edge / Full RB



04:07:31 29.03.2021

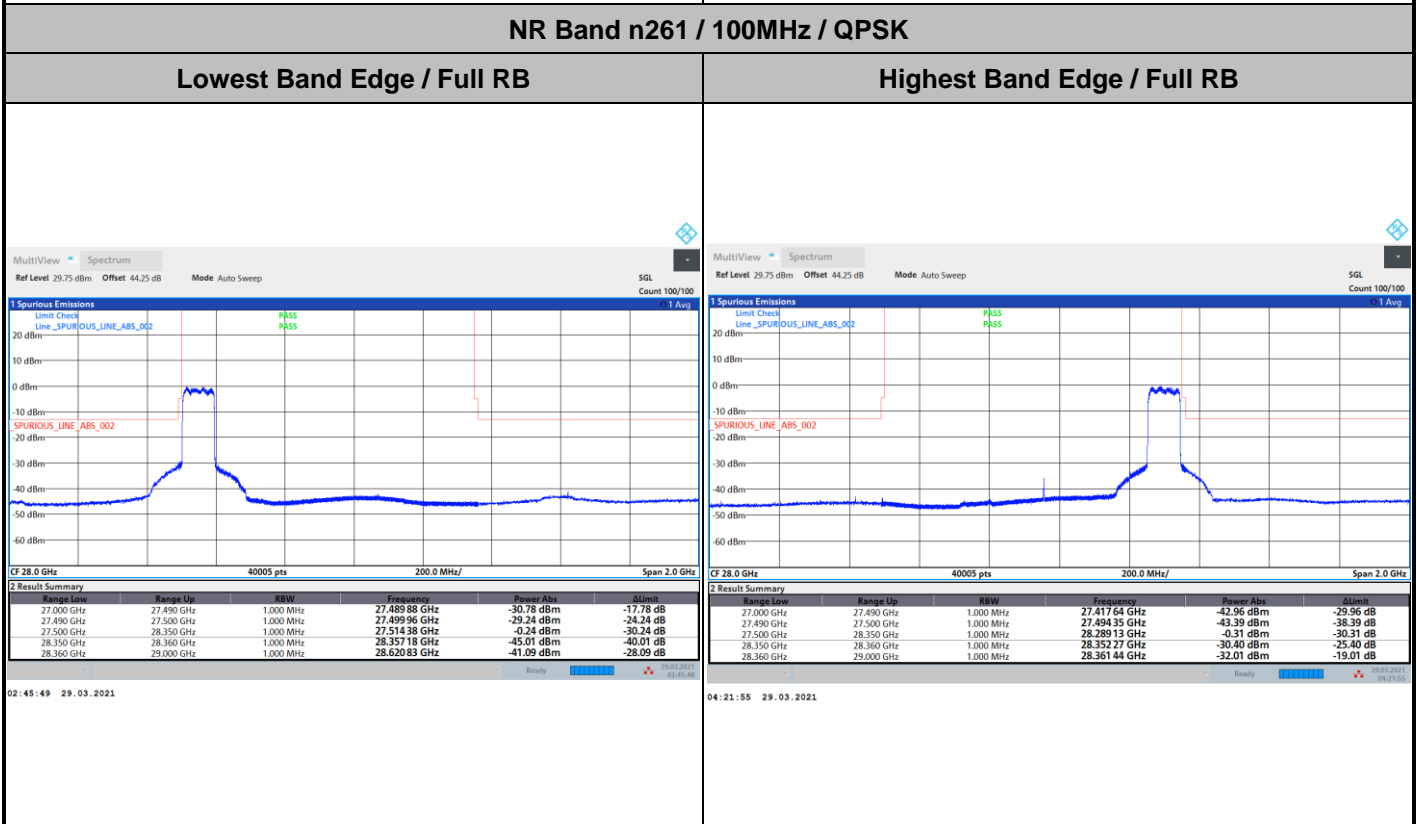
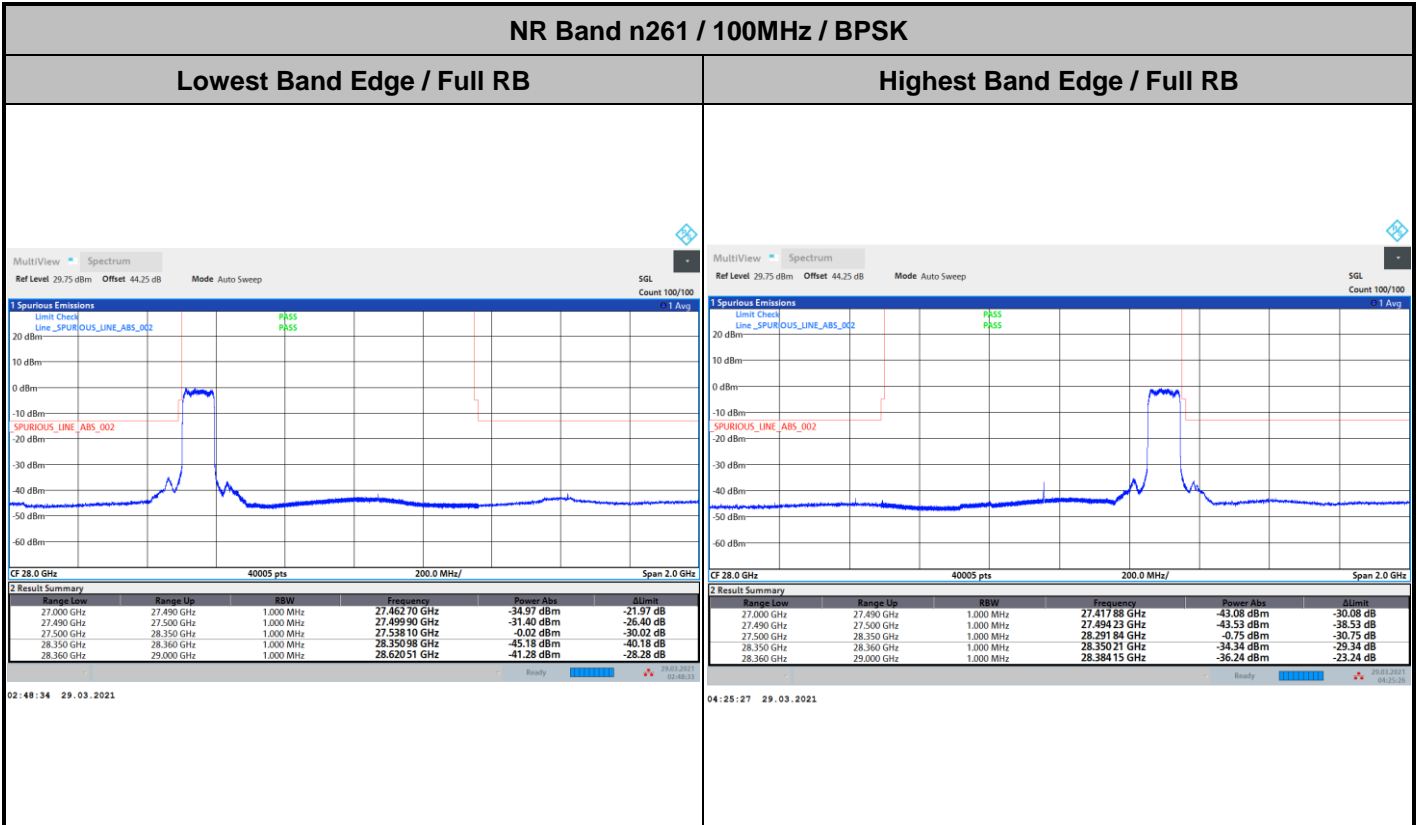


DFT-s-OFDM Module 1





DFT-s-OFDM Module 1

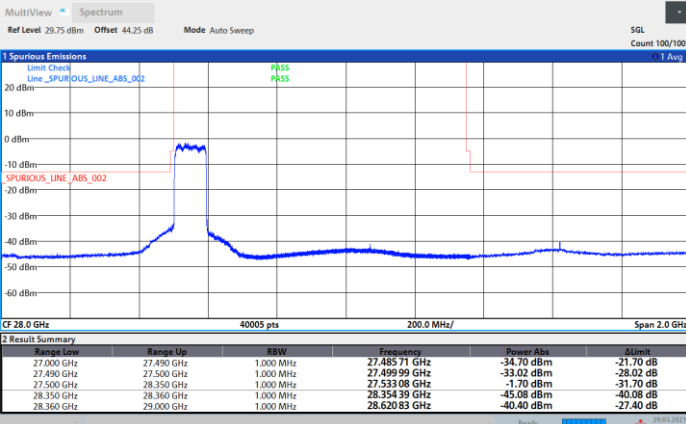




DFT-s-OFDM Module 1

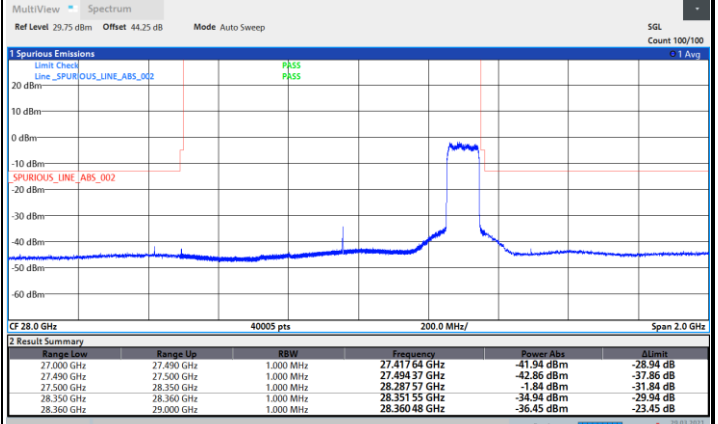
NR Band n261 / 100MHz / 16QAM

Lowest Band Edge / Full RB



02:46:40 29.03.2021

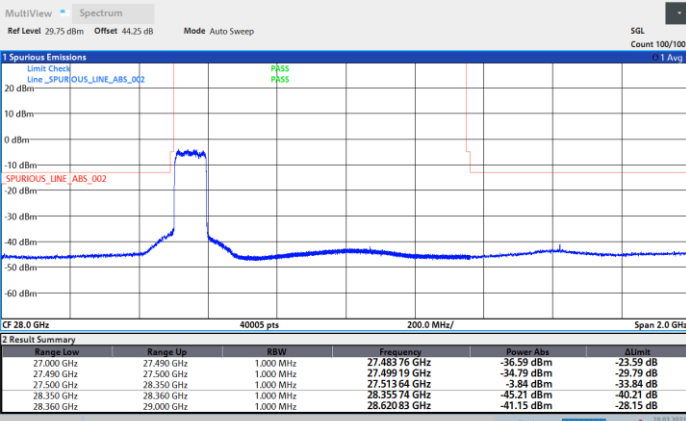
Highest Band Edge / Full RB



04:23:12 29.03.2021

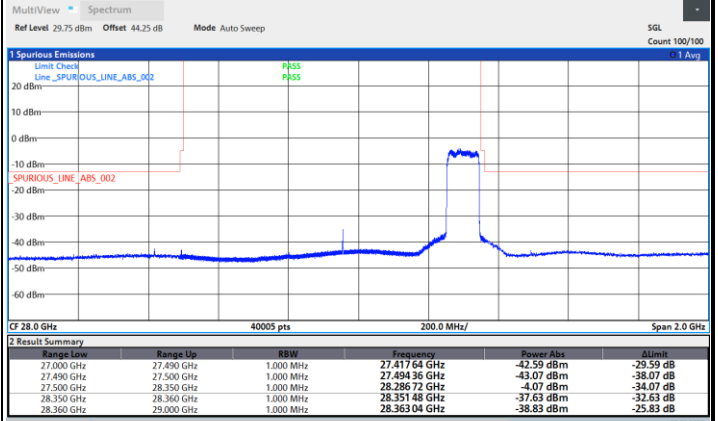
NR Band n261 / 100MHz / 64QAM

Lowest Band Edge / Full RB



02:47:40 29.03.2021

Highest Band Edge / Full RB



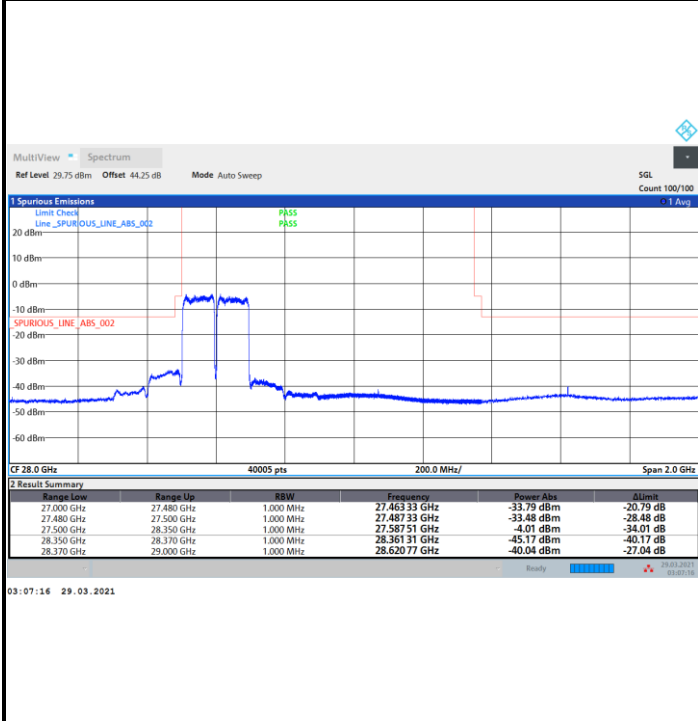
04:24:16 29.03.2021



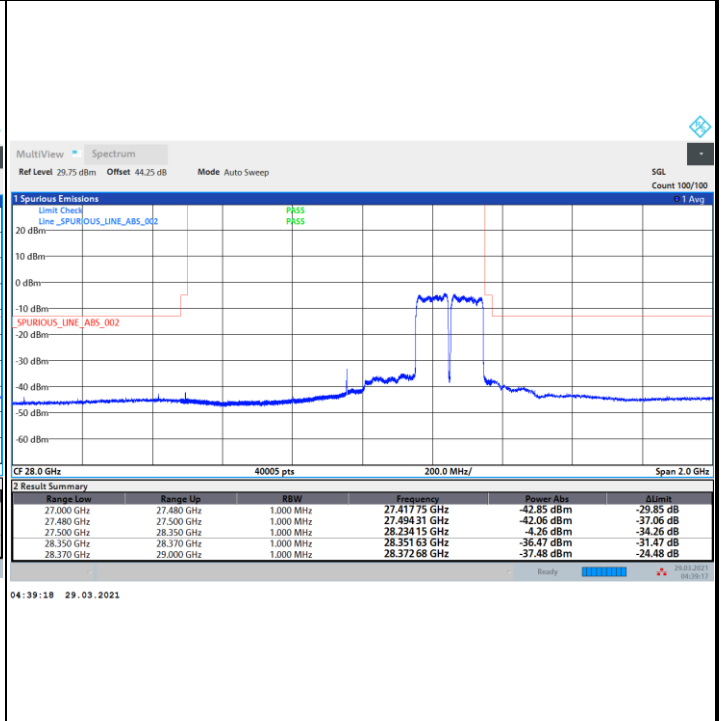
DFT-s-OFDM Module 1

NR Band n261 / 200MHz / BPSK

Lowest Band Edge / Full RB

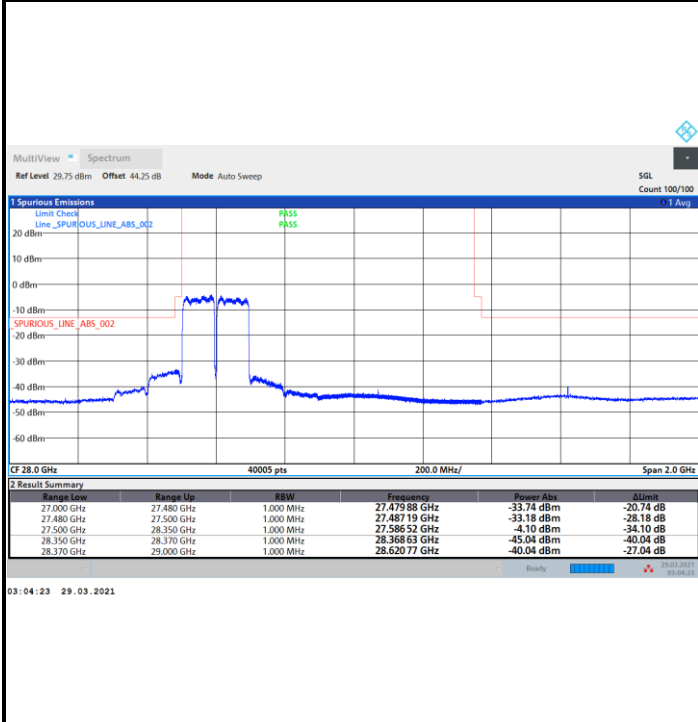


Highest Band Edge / Full RB

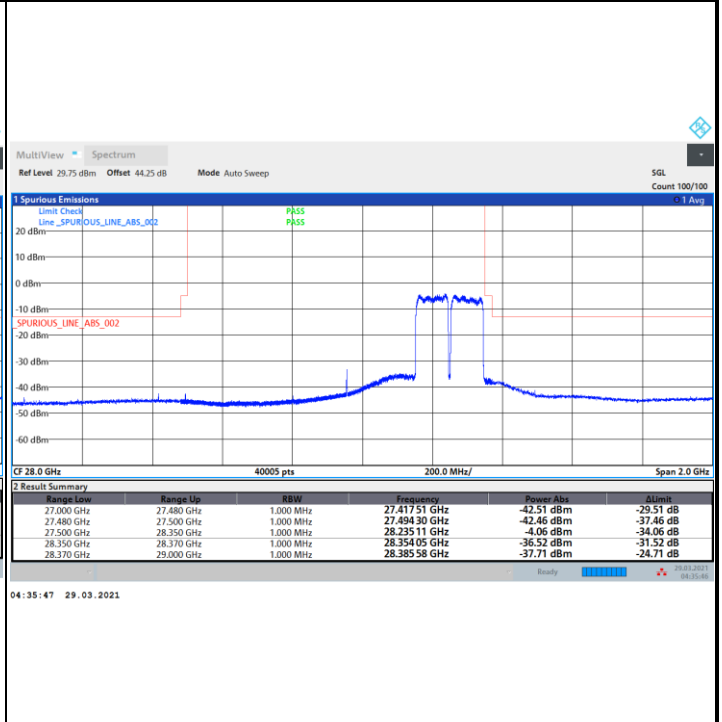


NR Band n261 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

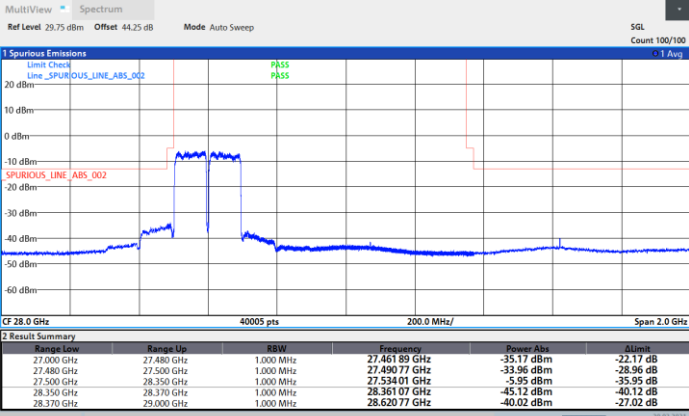




DFT-s-OFDM Module 1

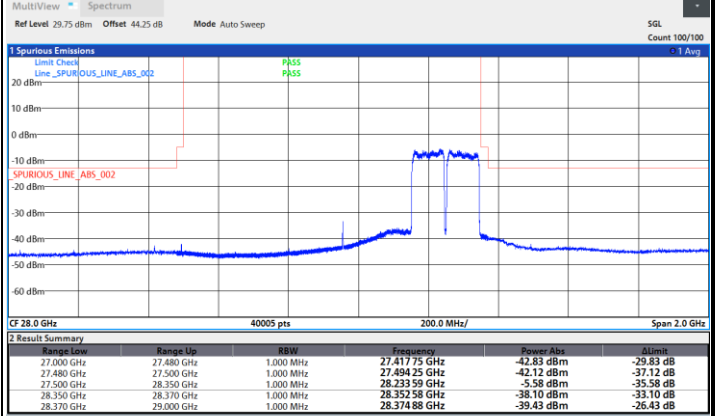
NR Band n261 / 200MHz / 16QAM

Lowest Band Edge / Full RB



03:05:21 29.03.2021

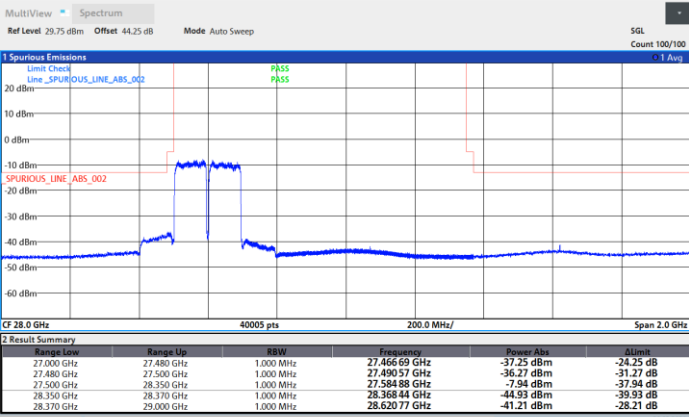
Highest Band Edge / Full RB



04:36:52 29.03.2021

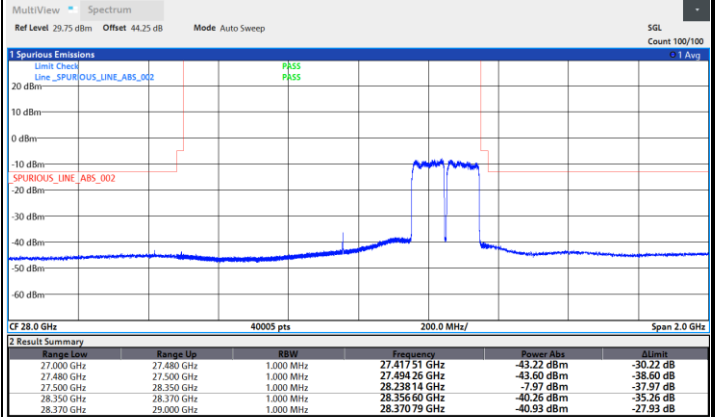
NR Band n261 / 200MHz / 64QAM

Lowest Band Edge / Full RB



03:06:14 29.03.2021

Highest Band Edge / Full RB



04:37:58 29.03.2021

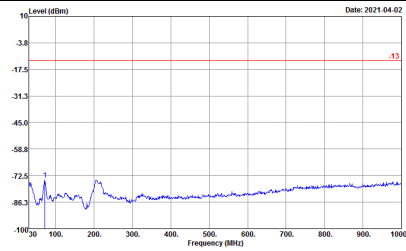


Spurious Emission

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

NR Band n261 (30MHz-1GHz)

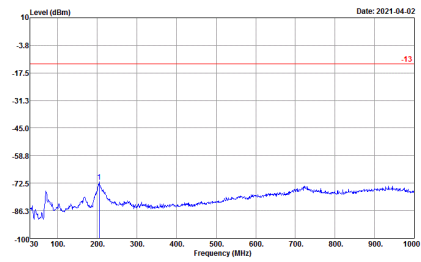
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 082730-06
 : n261 Module 1

Freq	Level	Over	Limit	Line
MHz	dBm	dB	dBm	dBm
1	71.71	-74.71	-61.71	-13.00

Vertical

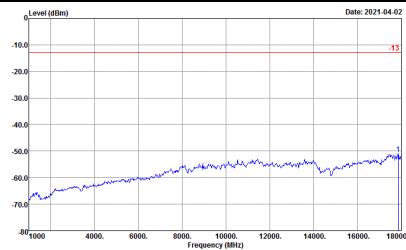


Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 082730-06
 : n261 Module 1

Freq	Level	Over	Limit	Line
MHz	dBm	dB	dBm	dBm
1	285.57	-71.82	-58.82	-13.00

NR Band n261 (1GHz-18GHz)

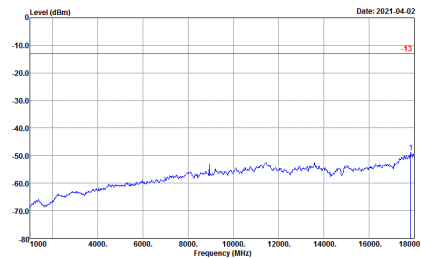
Horizontal



Site : 03CH10-HY
 Condition : -13 EIRP_WO HORIZONTAL
 Project : 082730-06
 : n261 Module 1

Freq	Level	Over	Limit	Line
MHz	dBm	dB	dBm	dBm
1	17864.00	-58.98	-37.98	-13.00

Vertical



Site : 03CH10-HY
 Condition : -13 EIRP_WO VERTICAL
 Project : 082730-06
 : n261 Module 1

Freq	Level	Over	Limit	Line
MHz	dBm	dB	dBm	dBm
1	17847.00	-48.73	-35.73	-13.00

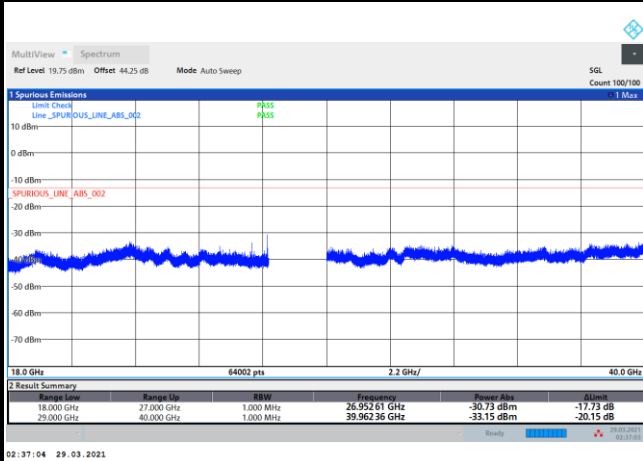


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

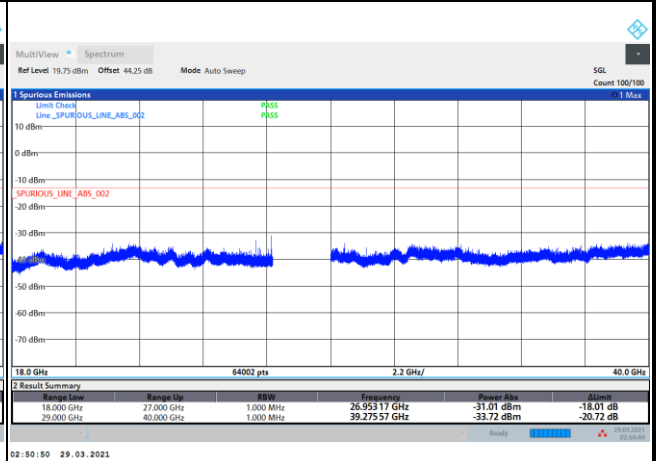
DFT-s-OFDM Module 1

NR Band n261 BPSK (18-40GHz)

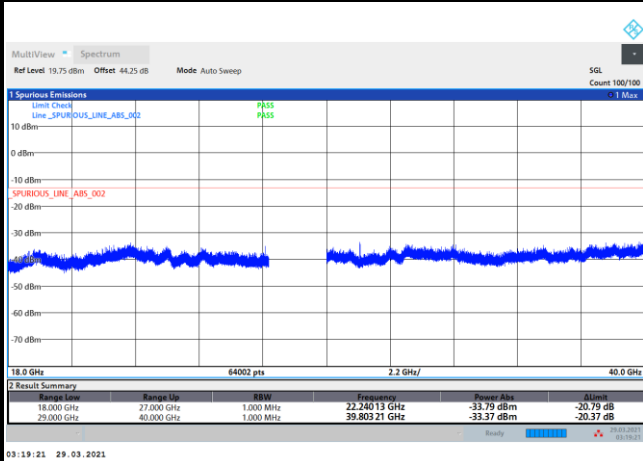
Lowest Channel / 50MHz



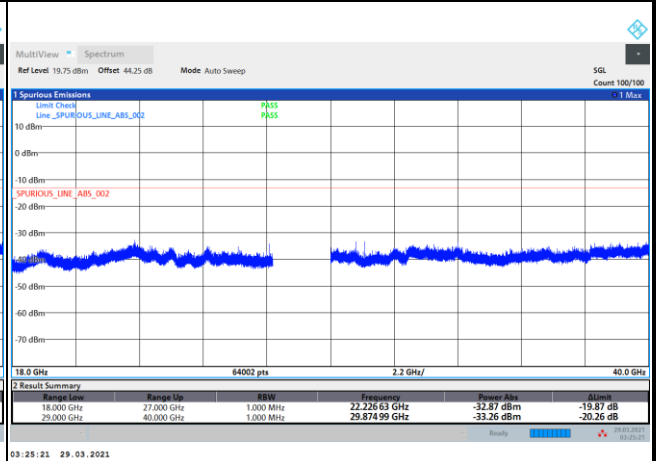
Lowest Channel / 100MHz



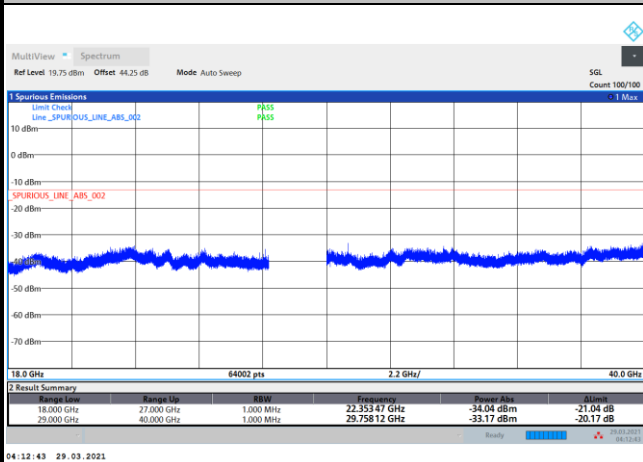
Middle Channel / 50MHz



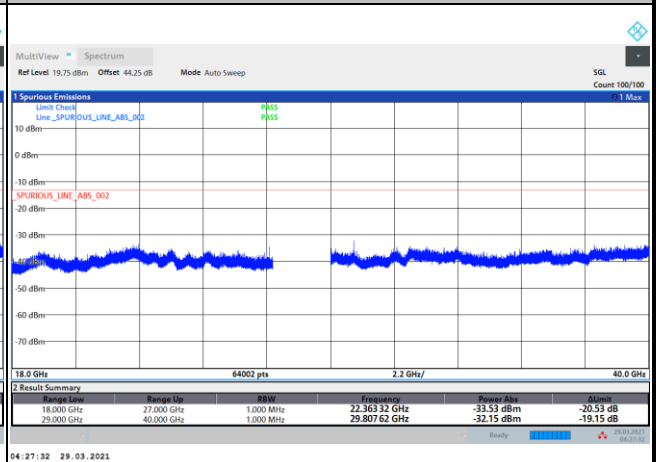
Middle Channel / 100MHz



Highest Channel / 50MHz

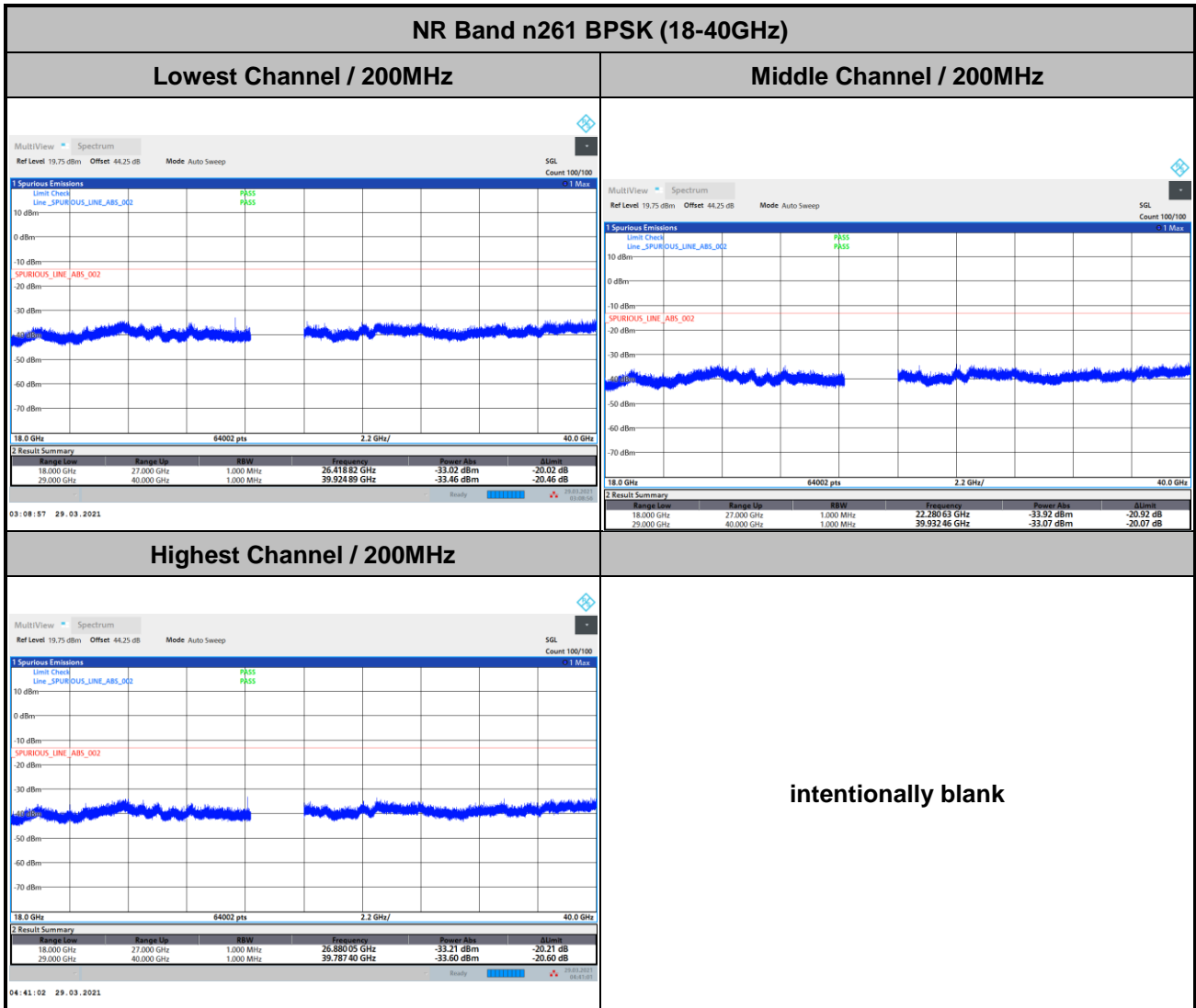


Highest Channel / 100MHz





DFT-s-OFDM Module 1



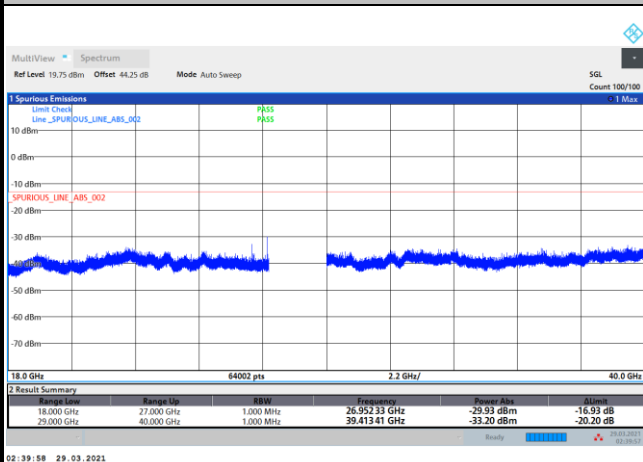
Remark: Above plots, the spurious emissions were measured from 18GHz to 27GHz and 29GHz to 40GHz. The test results within the omitted frequency 27GHz to 29GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 27GHz to 29GHz, and all spurious comply with limits.



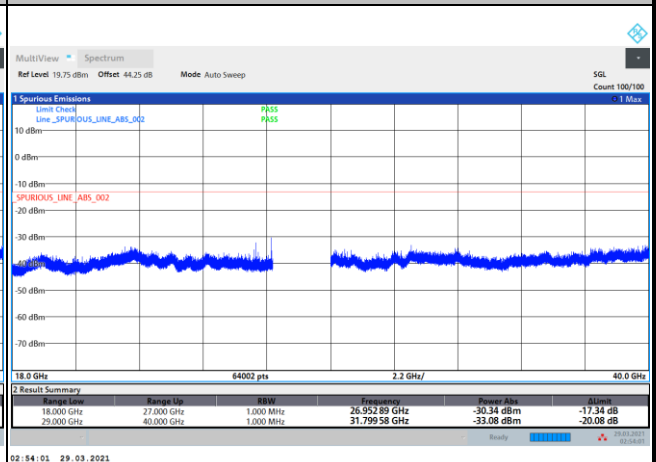
DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

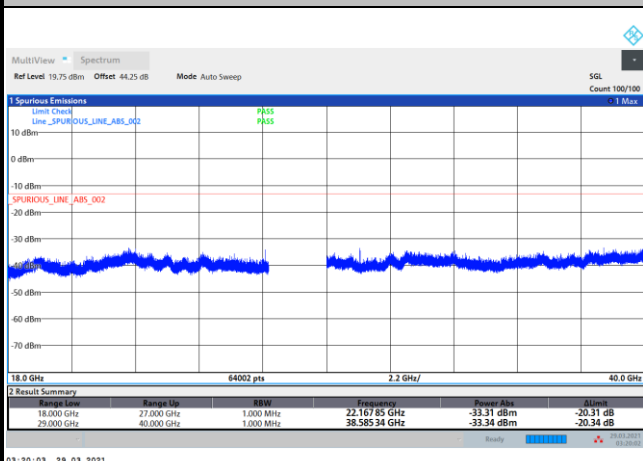
Lowest Channel / 50MHz



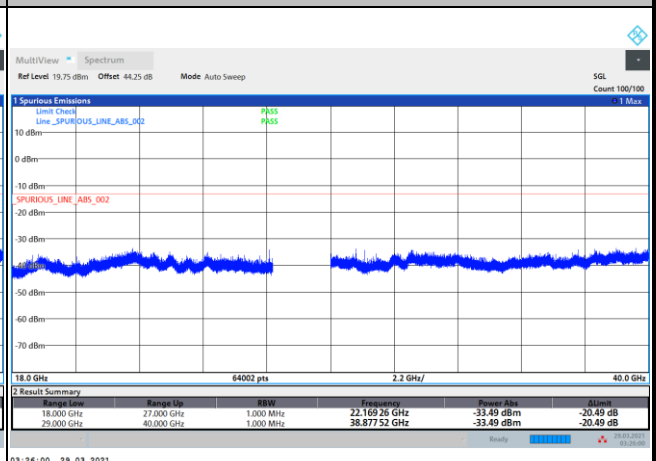
Lowest Channel / 100MHz



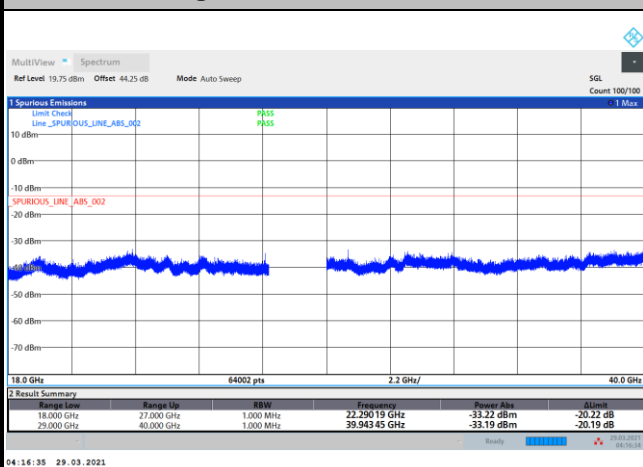
Middle Channel / 50MHz



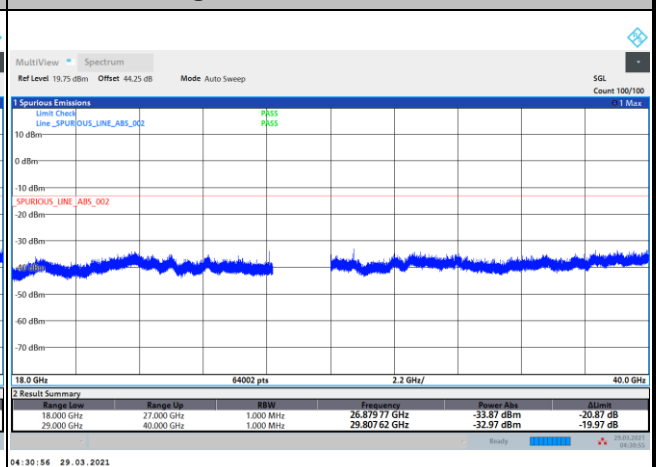
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

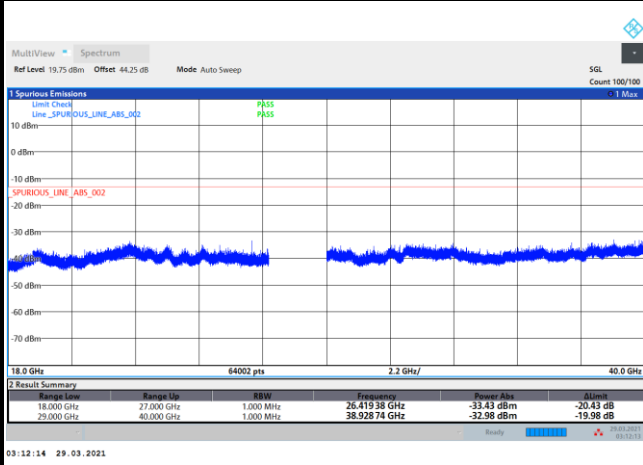




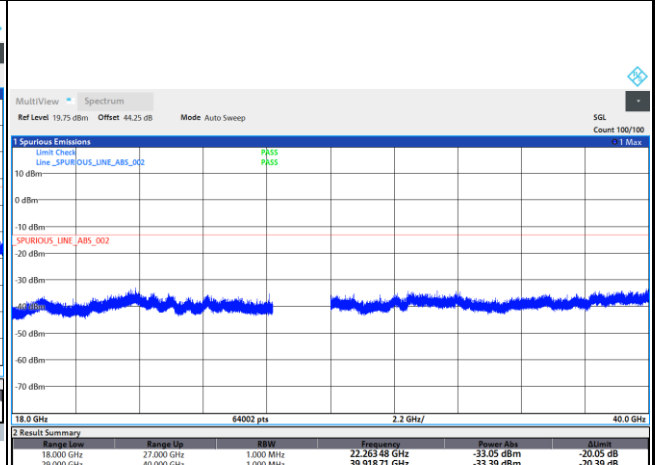
DFT-s-OFDM Module 1

NR Band n261 QPSK (18-40GHz)

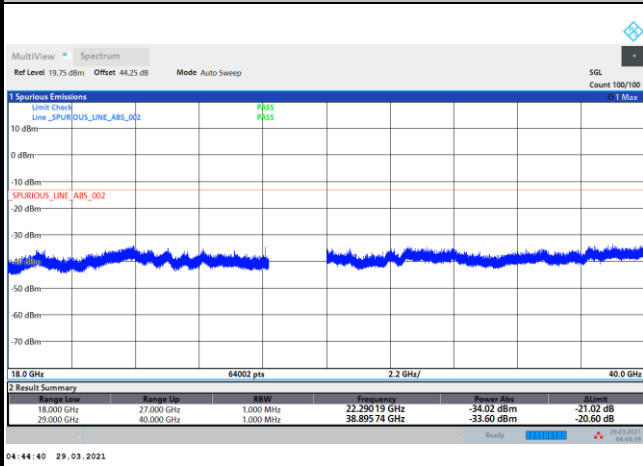
Lowest Channel / 200MHz



Middle Channel / 200MHz



Highest Channel / 200MHz

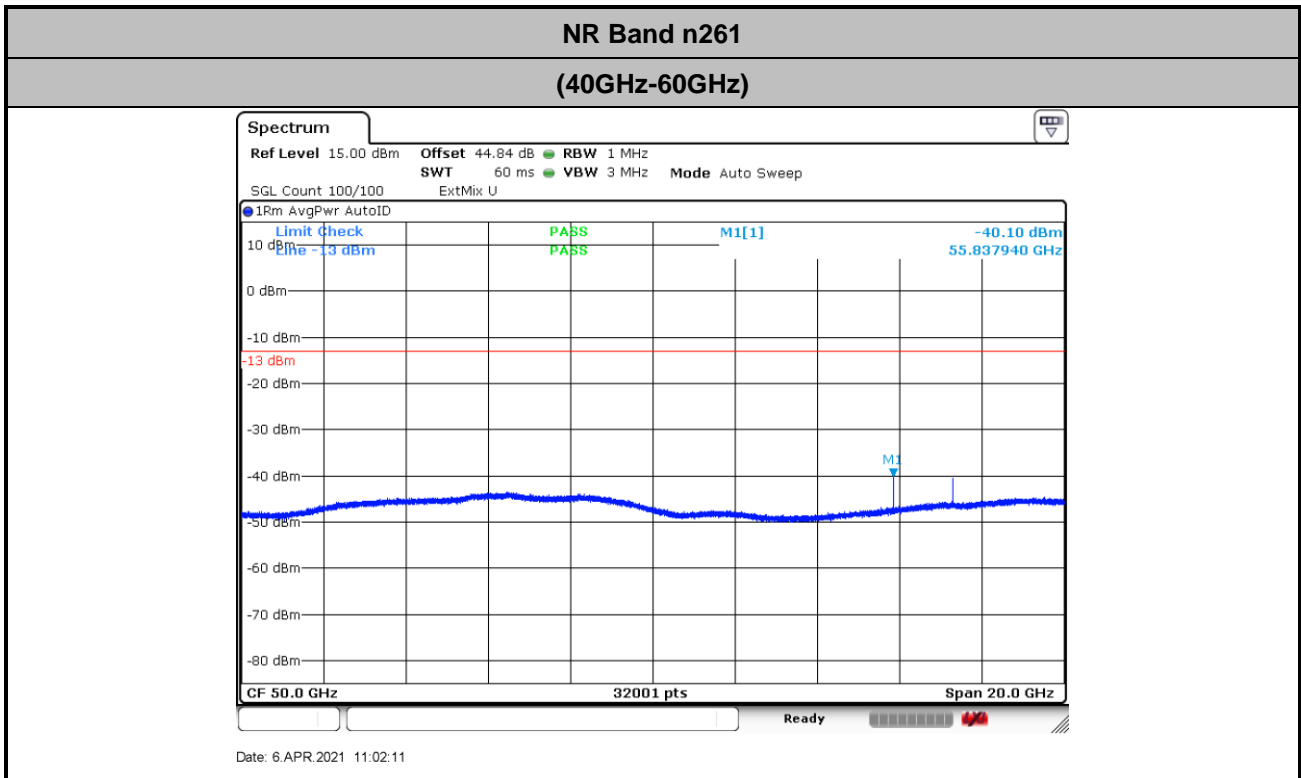


intentionally blank

Remark: Above plots, the spurious emissions were measured from 18GHz to 27GHz and 29GHz to 40GHz. The test results within the omitted frequency 27GHz to 29GHz were measured and reported in the section of Radiated Out of Band Emission with frequency range, 27GHz to 29GHz, and all spurious comply with limits.

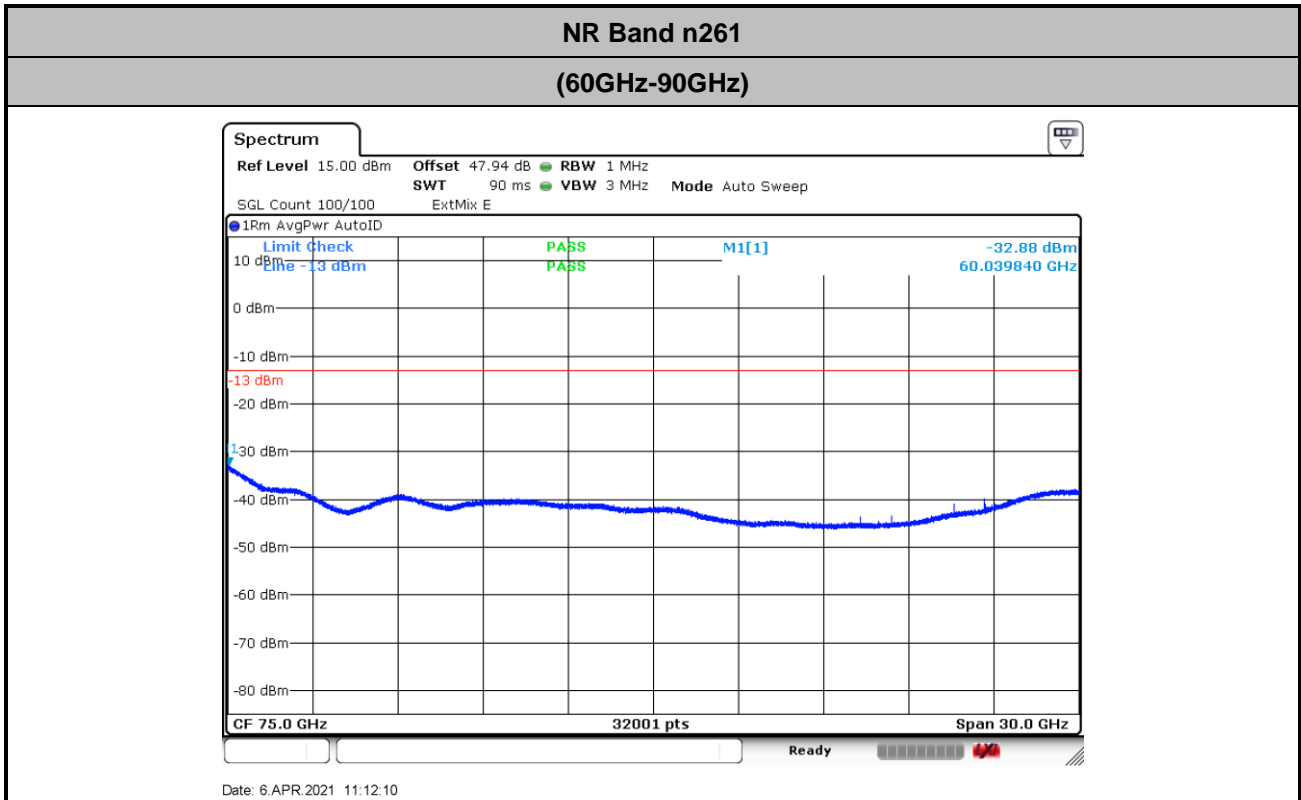


There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz. Only the noise floor is reported.



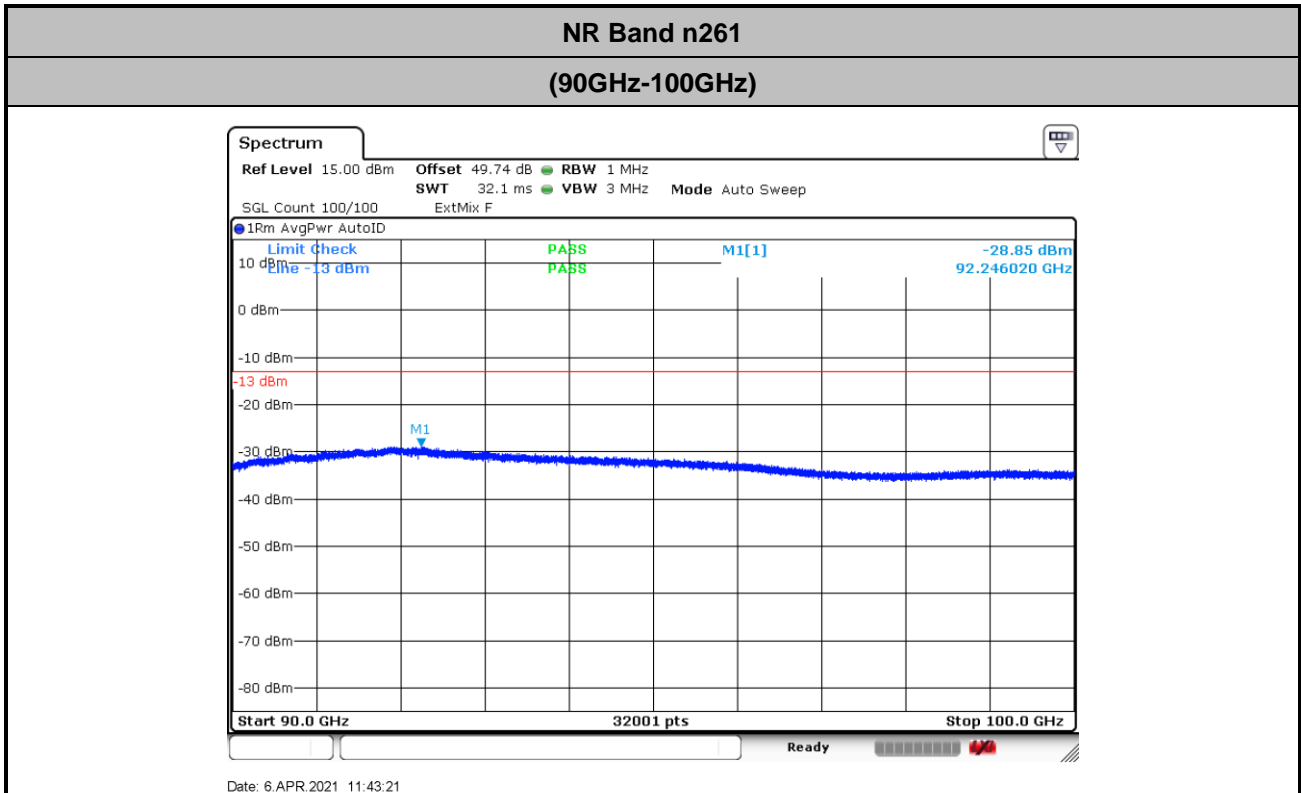
$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

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



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

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



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

$$= 47.2 + 0.34 + 107 + 20\log(1) - 104.8 = 49.74 \text{ (dB)}$$



Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	27.925031	-31.000	1.110	PASS
40	Normal Voltage	27.925031	-31.000	1.110	
30	Normal Voltage	27.9250589	-58.900	2.109	
20(Ref.)	Normal Voltage	27.925	0.000	0.000	
10	Normal Voltage	27.9251678	-167.800	6.009	
0	Normal Voltage	27.9252408	-240.800	8.623	
-10	Normal Voltage	27.9253247	-324.700	11.628	
-20	Normal Voltage	27.9253566	-356.600	12.770	
-30	Normal Voltage	27.9253506	-350.600	12.555	
20	Maximum Voltage	27.925006	-6.000	0.215	
20	Normal Voltage	27.924993	7.000	0.251	
20	Battery End Point	27.924985	15.000	0.537	

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



NR Band n261 AG1

Occupied Bandwidth

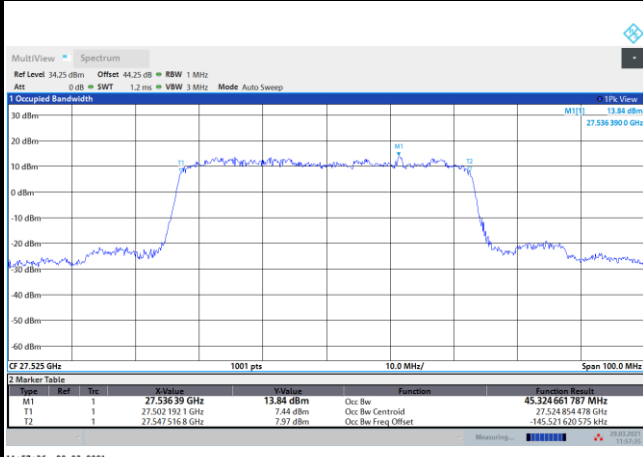
Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				200MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.32	45.24	45.63	45.35	90.17	90.35	90.07	90.47	189.02	189.29	189.15	189.43
Middle CH	45.31	45.30	45.50	45.37	90.30	90.48	90.02	90.60	188.57	188.86	188.66	189.09
Highest CH	45.41	45.53	45.22	45.29	90.29	90.36	89.94	90.46	189.17	188.85	188.58	188.97



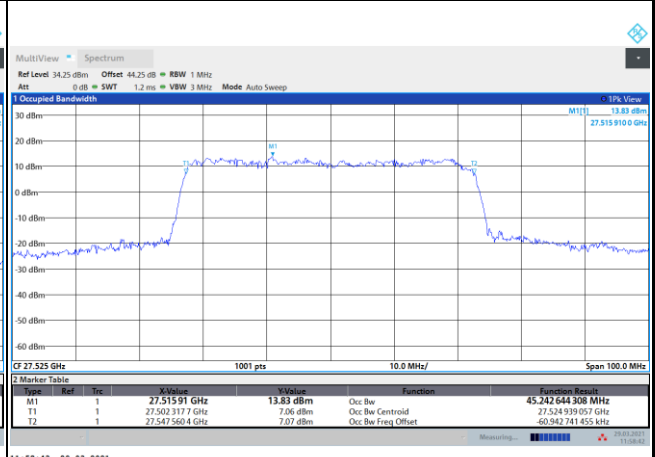
DFT-s-OFDM Module 1

NR Band n261

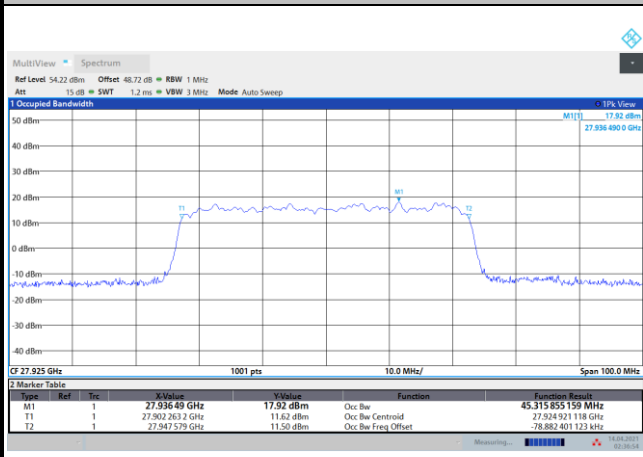
Lowest Channel / 50MHz / BPSK



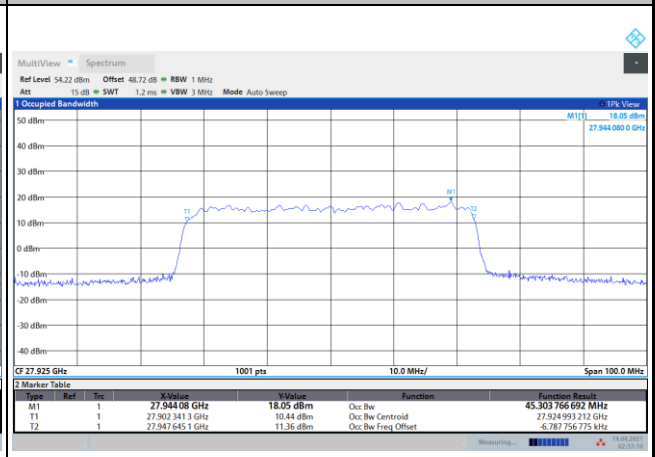
Lowest Channel / 50MHz / QPSK



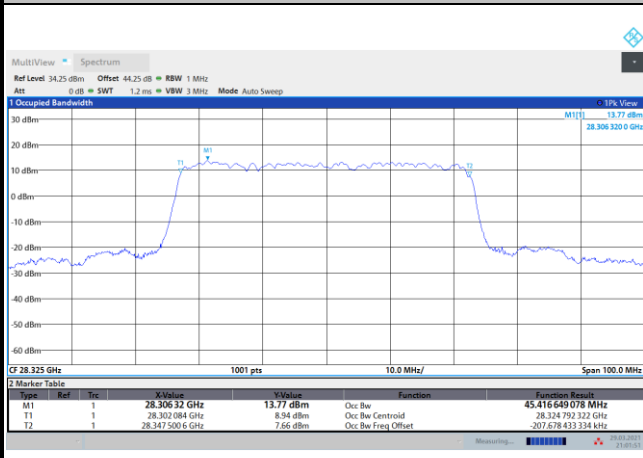
Middle Channel / 50MHz / BPSK



Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

