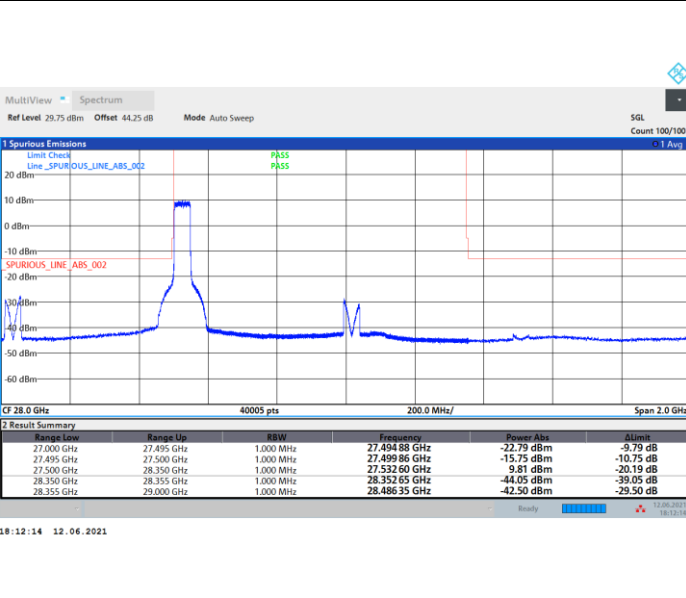




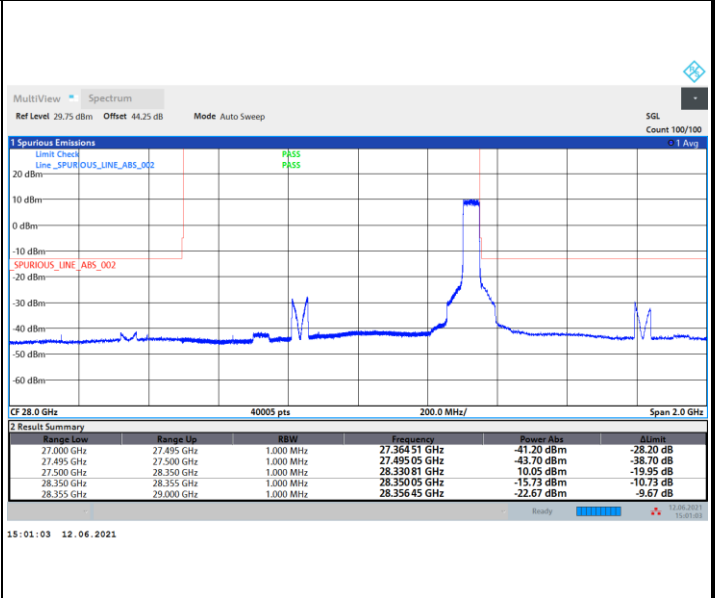
DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / Full RB

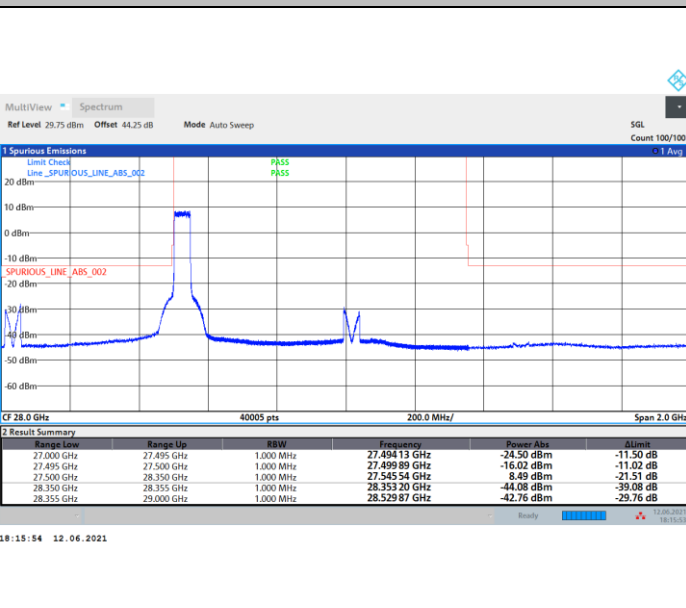


Highest Band Edge / Full RB

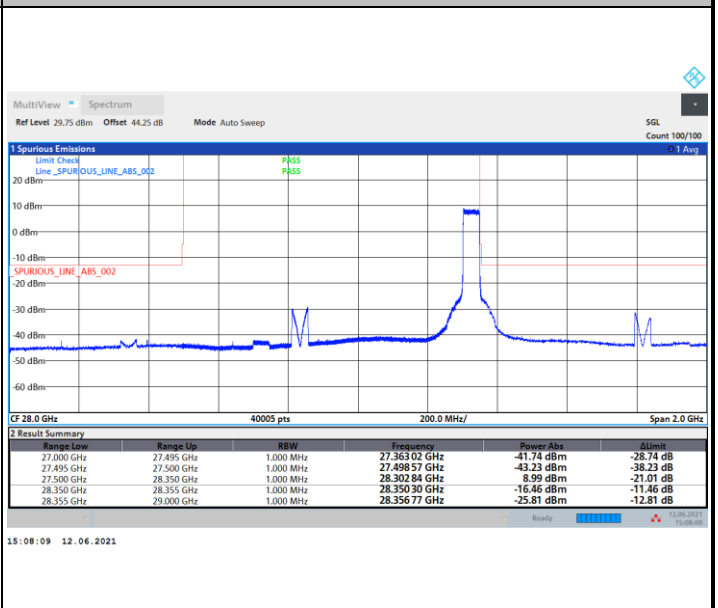


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / Full RB

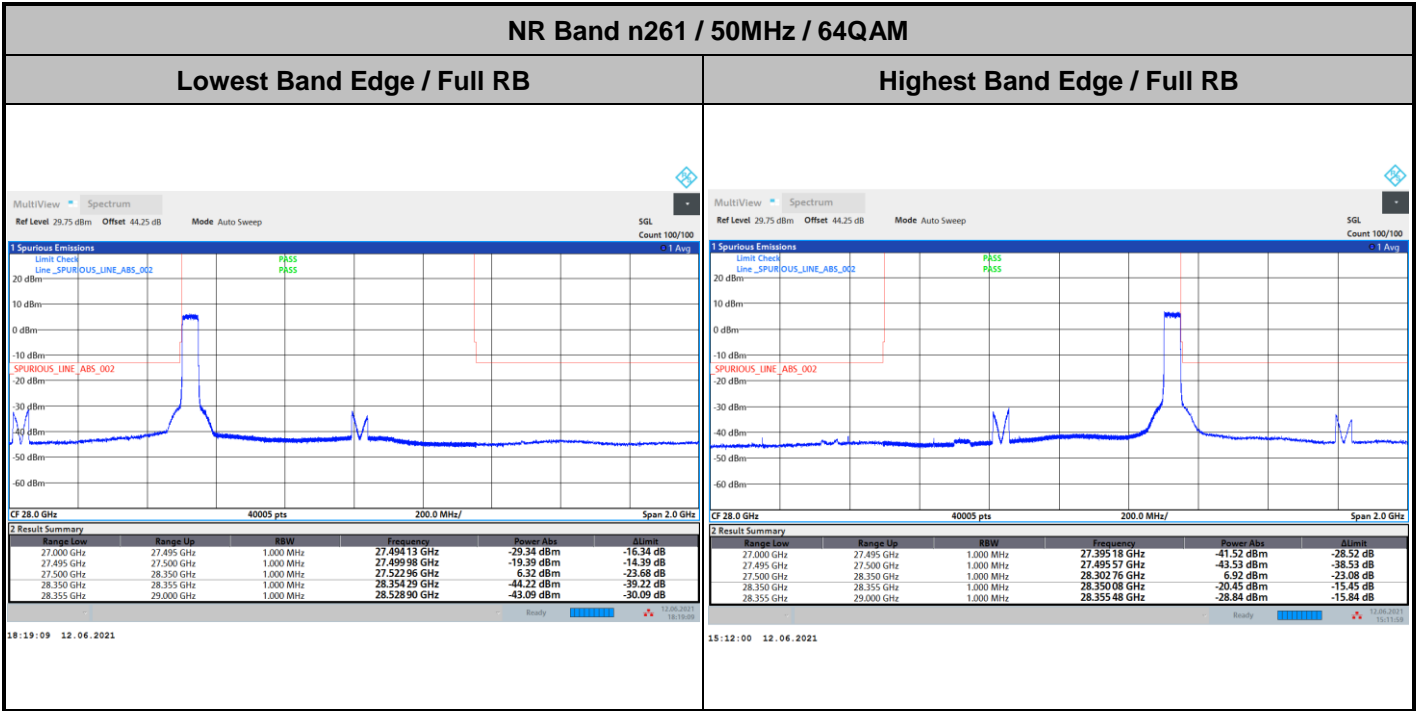


Highest Band Edge / Full RB

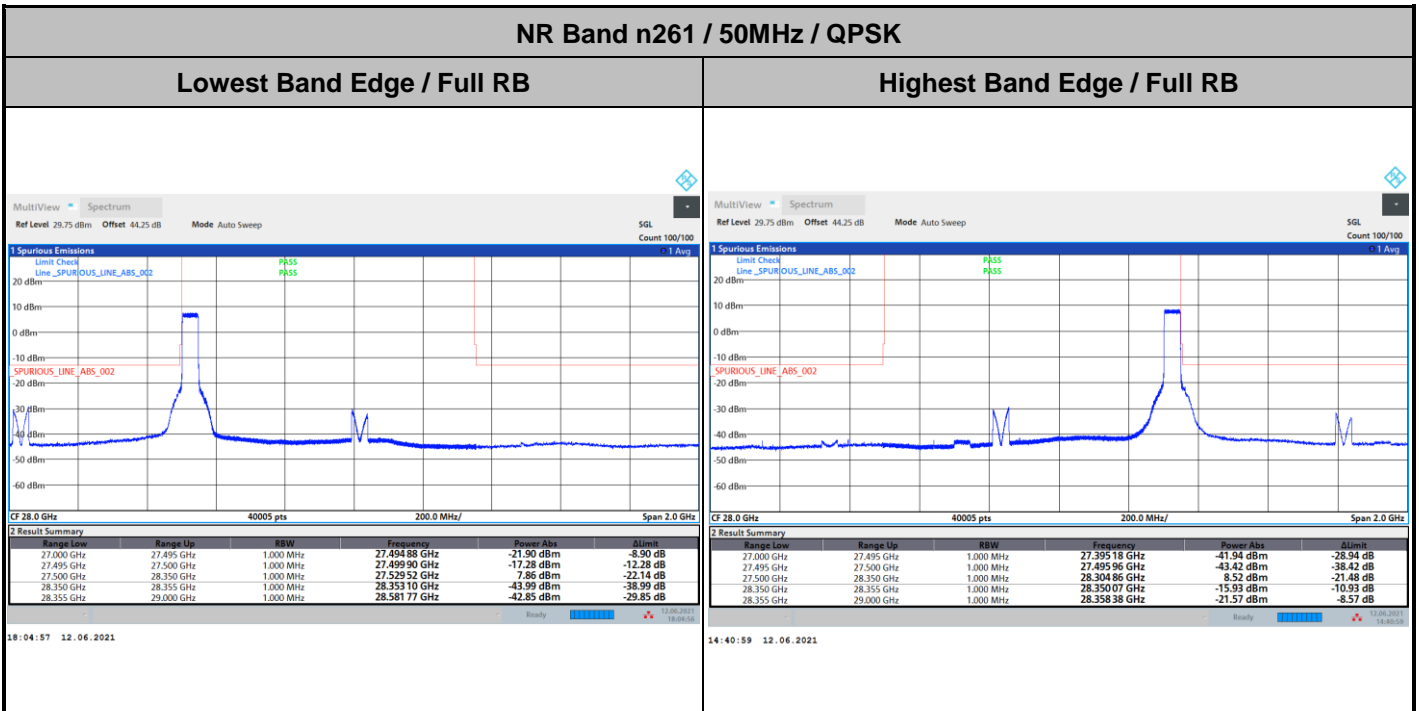




DFT-s-OFDM Module A



CP-OFDM Module A



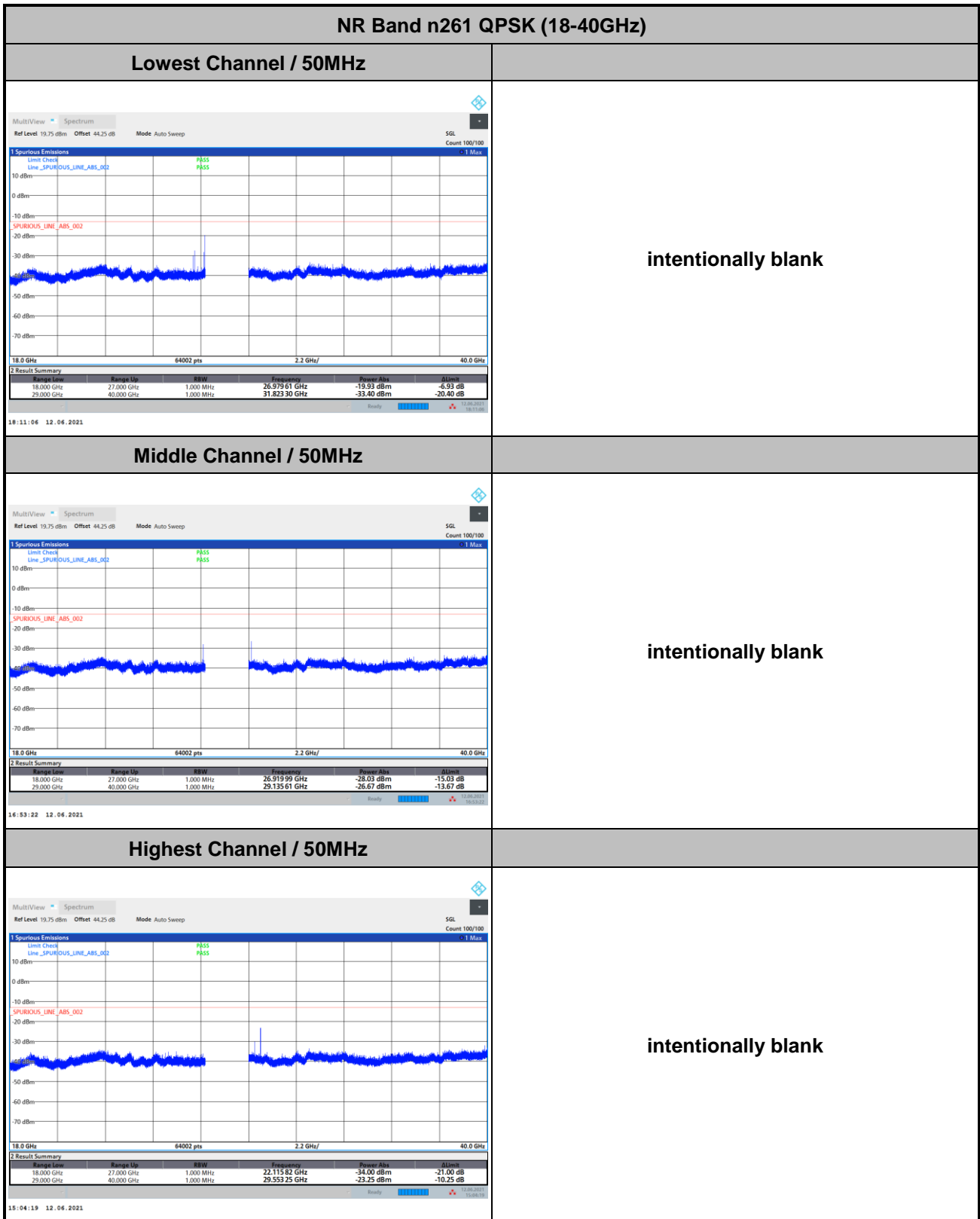


Spurious Emission



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

DFT-s-OFDM Module A



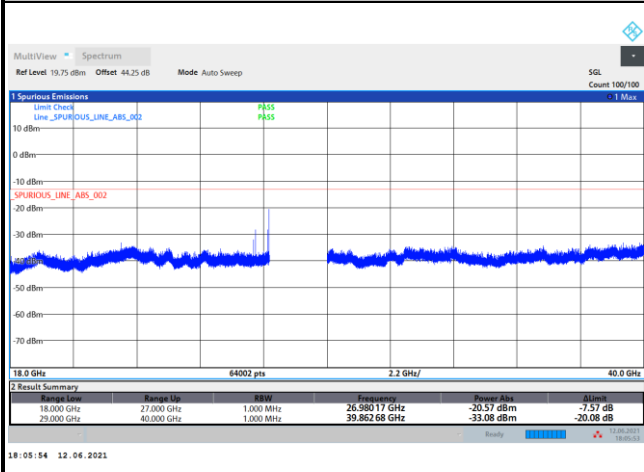
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module A

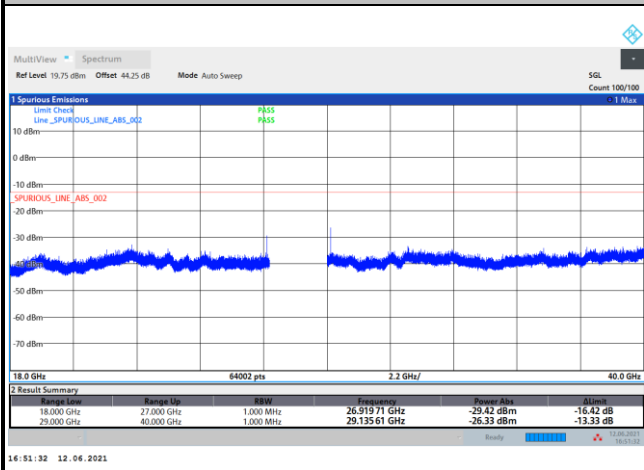
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



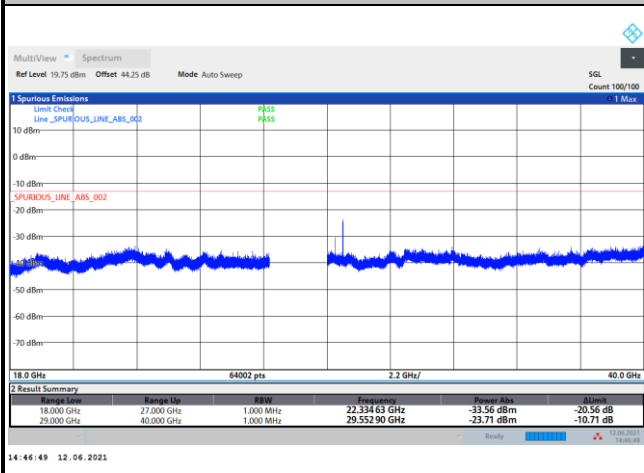
intentionally blank

Middle Channel / 50MHz



intentionally blank

Highest Channel / 50MHz



intentionally blank

Remark: In band and out of band frequencies that has reported in previous results are omitted.



NR Band n261 Module A Beam H+V

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	46.03	46.17	46.25
Middle CH	46.03	46.10	46.29
Highest CH	46.03	46.26	46.25

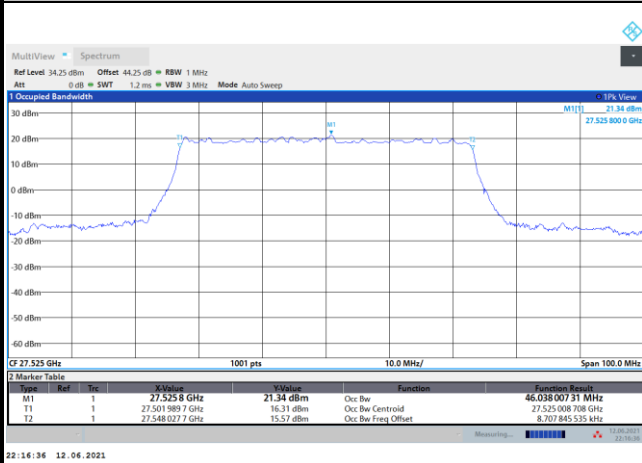
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)
BW	50MHz
Mod.	QPSK
Lowest CH	46.02
Middle CH	46.21
Highest CH	46.10



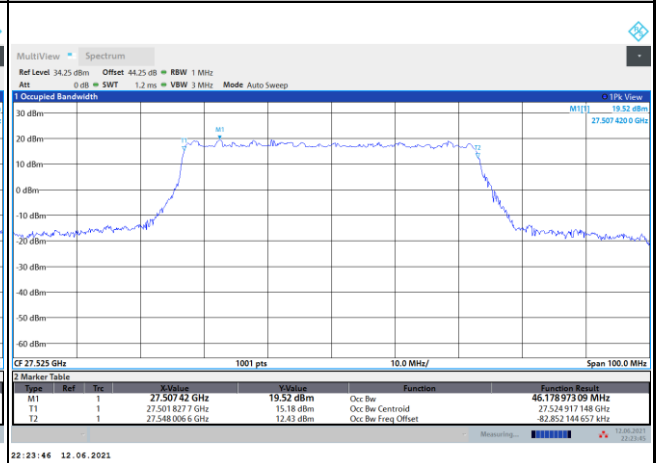
DFT-s-OFDM Module A

NR Band n261

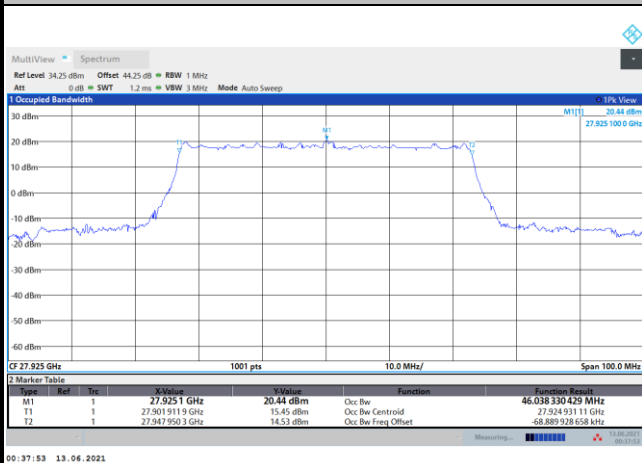
Lowest Channel / 50MHz / QPSK



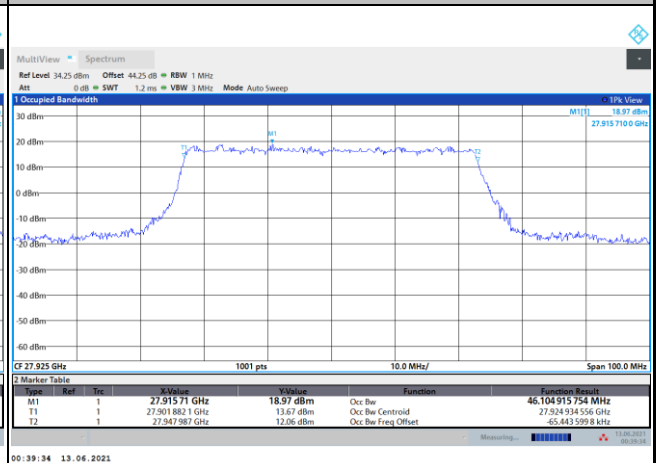
Lowest Channel / 50MHz / 16QAM



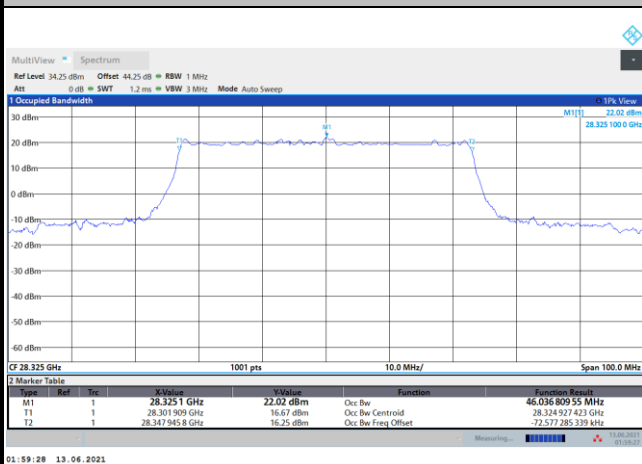
Middle Channel / 50MHz / QPSK



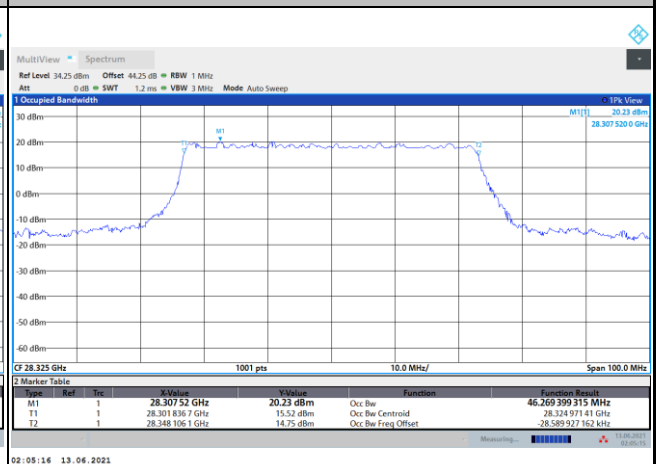
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

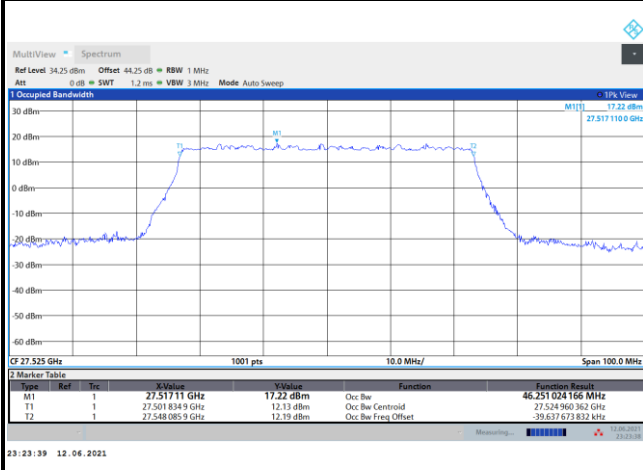




DFT-s-OFDM Module A

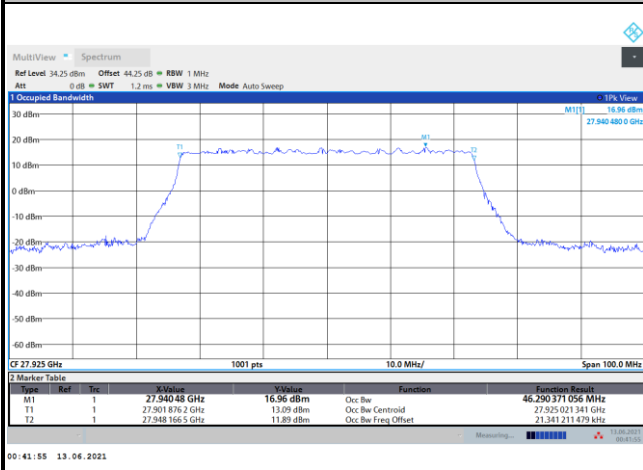
NR Band n261

Lowest Channel / 50MHz / 64QAM



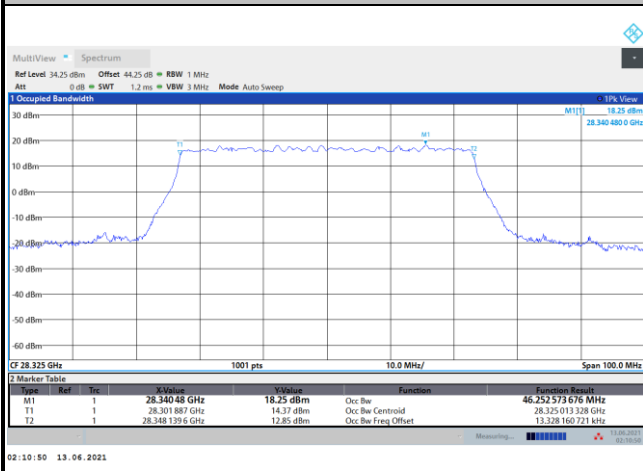
intentionally blank

Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



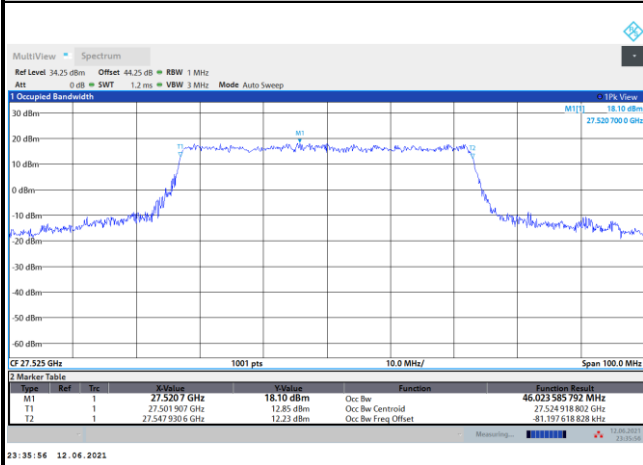
intentionally blank



CP-OFDM Module A

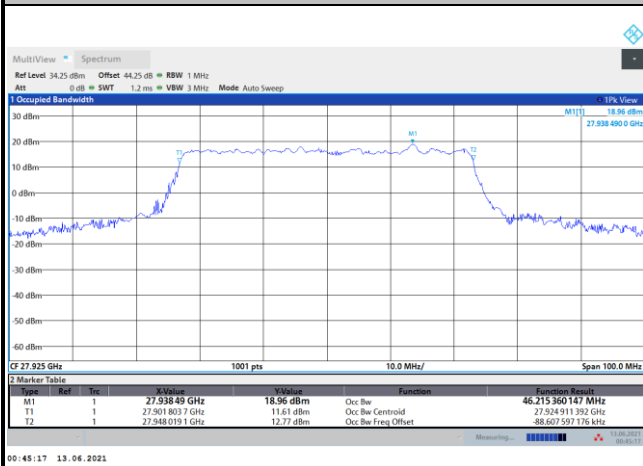
NR Band n261

Lowest Channel / 50MHz / QPSK



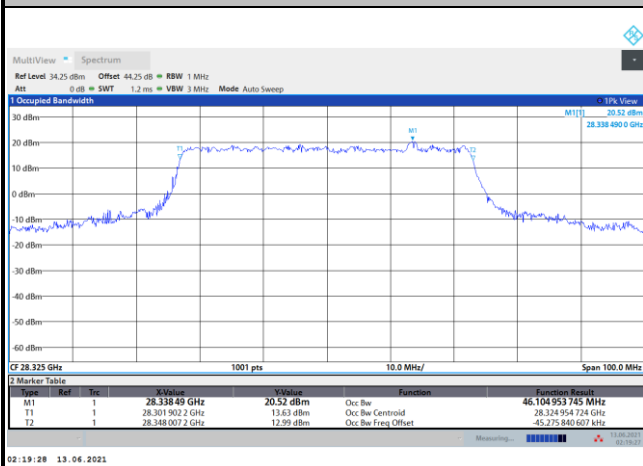
intentionally blank

Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



intentionally blank



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-16.84	-18.54	-7.09
	>10%OB	≤ -13	-22.52	-24.56	-16.60
High CH	0~10%OB	≤ -5	-16.11	-16.49	-6.67
	>10%OB	≤ -13	-23.50	-23.24	-20.80
Result			Compliance		

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-18.17		
	>10%OB	≤ -13	-24.76		
High CH	0~10%OB	≤ -5	-27.88		
	>10%OB	≤ -13	-30.18		
Result			Compliance		

Mode			DFT-s-OFDM Module A NR Band n261 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-14.62	-15.98	-16.35
	>10%OB	≤ -13	-21.62	-23.63	-27.92
High CH	0~10%OB	≤ -5	-13.64	-14.04	-17.16
	>10%OB	≤ -13	-19.42	-22.88	-27.66
Result			Compliance		

Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-14.19		
	>10%OB	≤ -13	-20.68		
High CH	0~10%OB	≤ -5	-13.80		
	>10%OB	≤ -13	-19.06		
Result			Compliance		

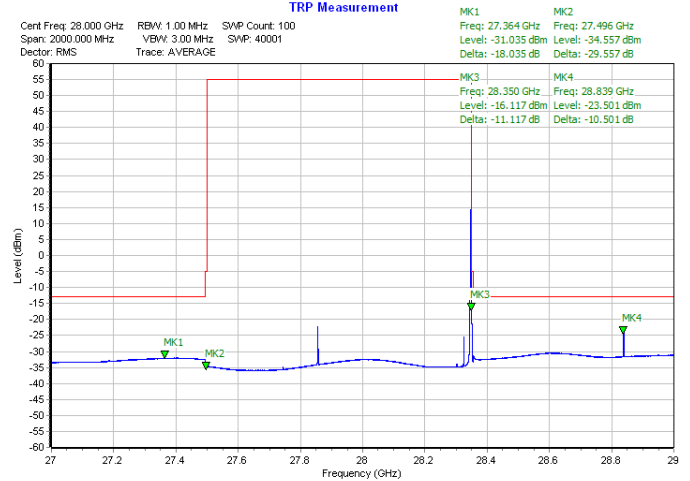
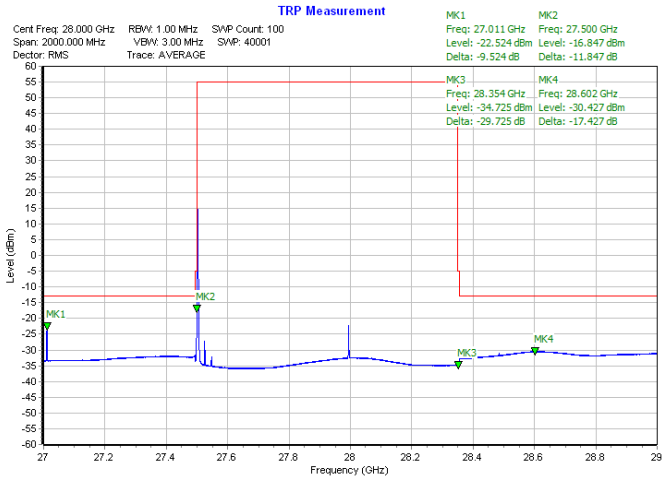


DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

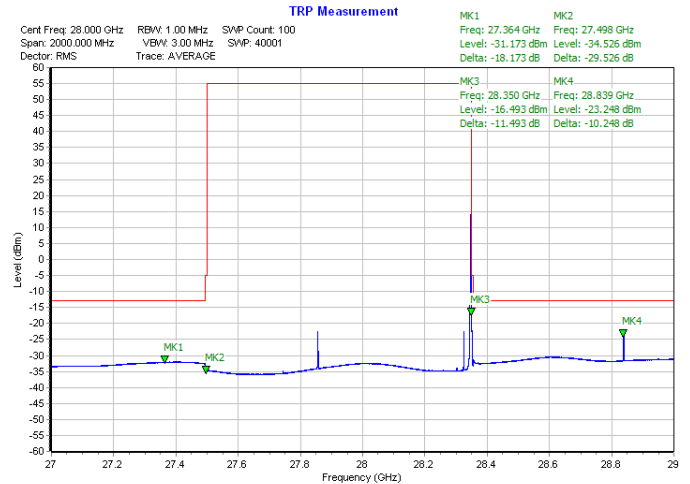
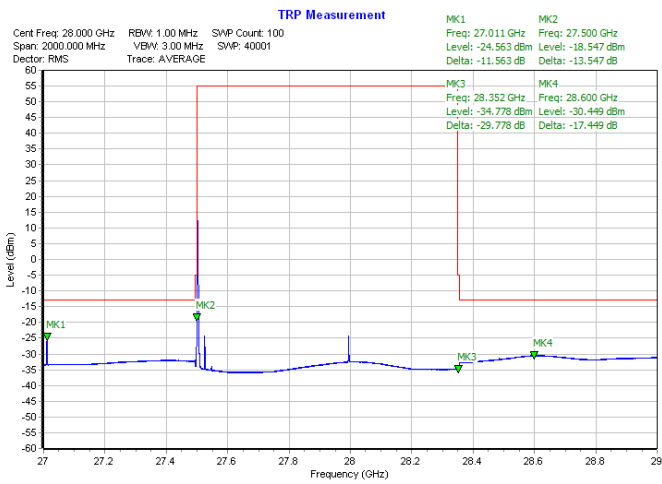
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 16QAM

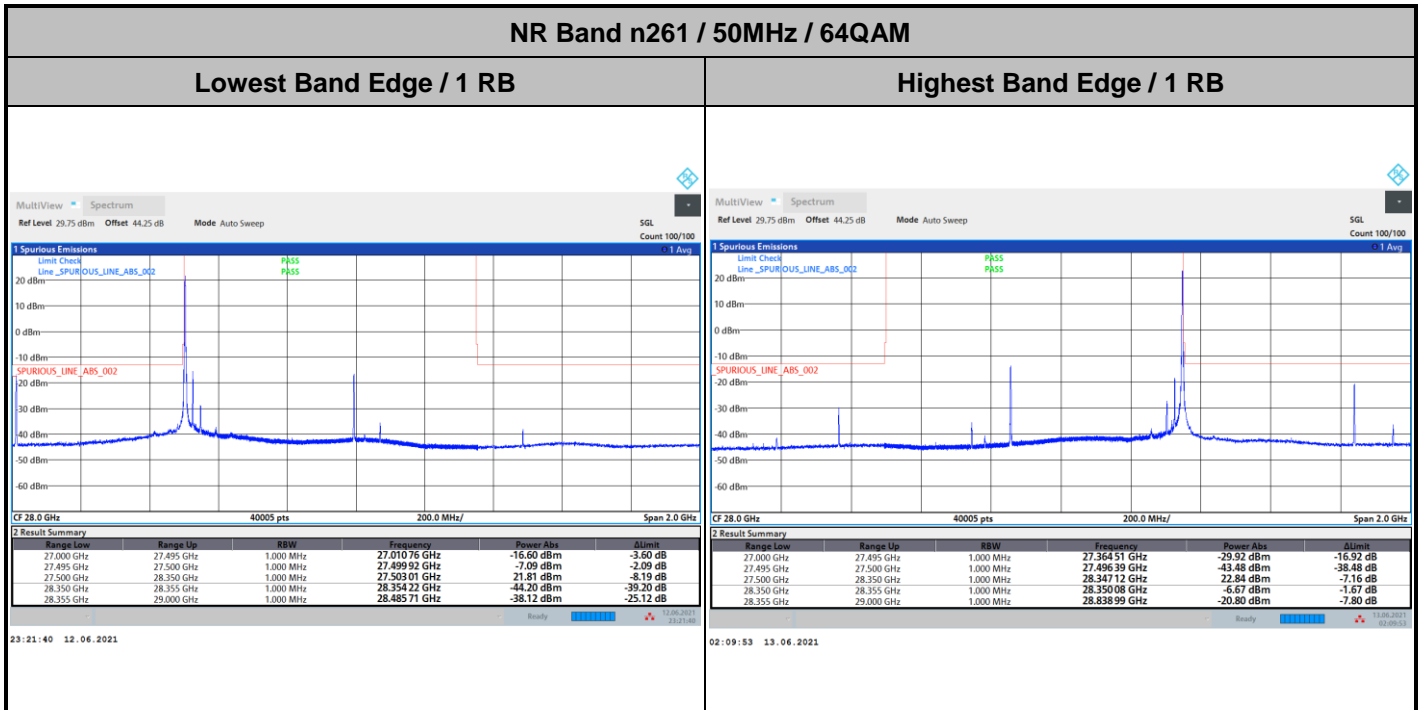
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

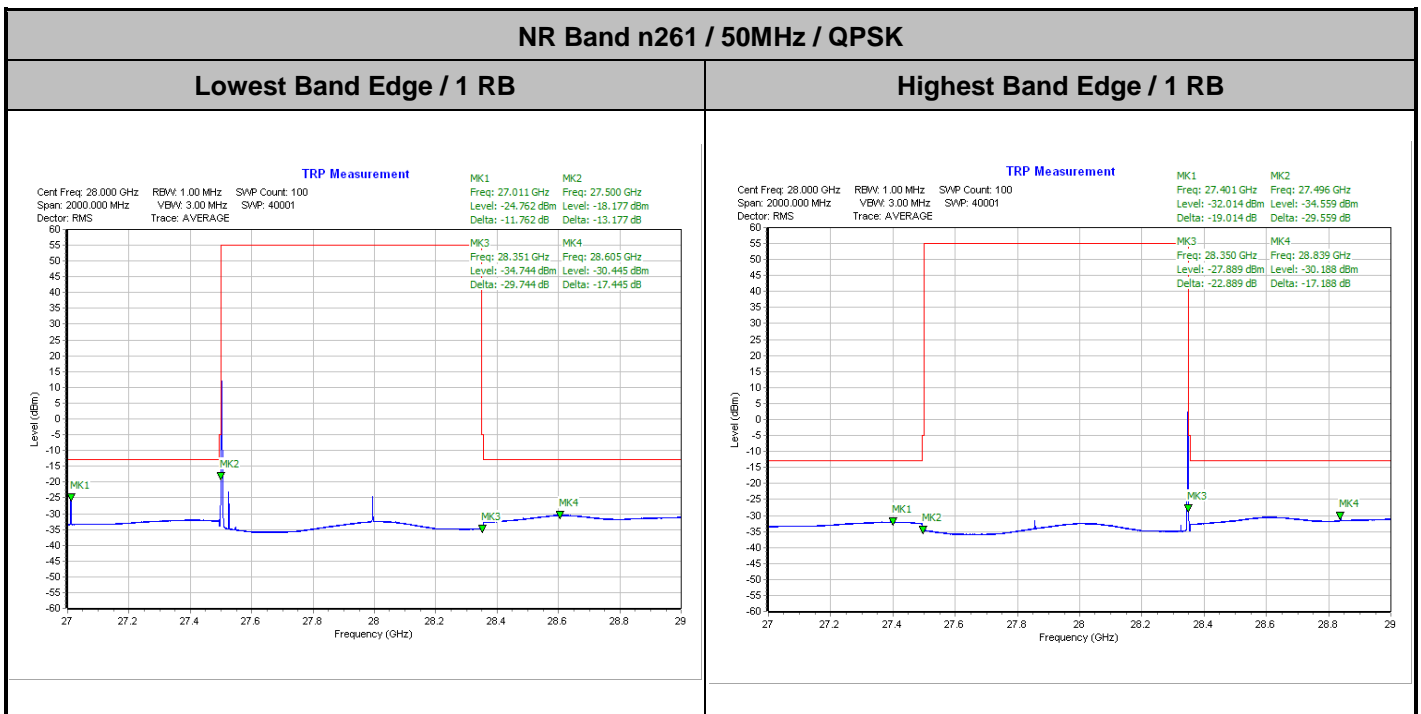




DFT-s-OFDM Module A



CP-OFDM Module A

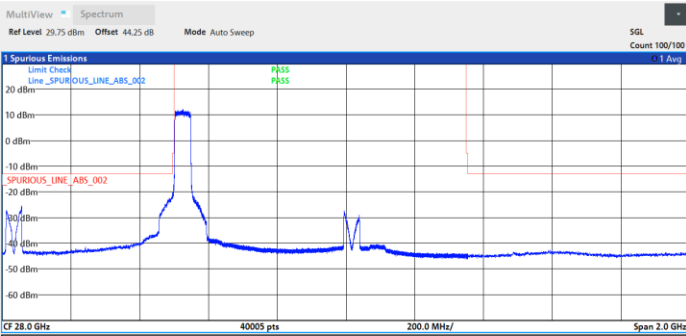




DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

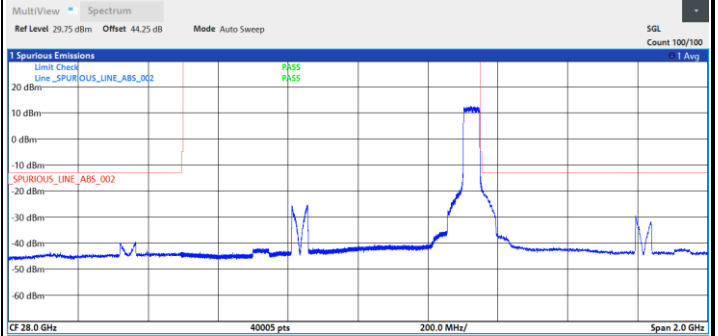
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.49453 GHz	-21.62 dBm	-8.62 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49988 GHz	-14.62 dBm	-9.62 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.52511 GHz	12.13 dBm	-17.87 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35206 GHz	-43.97 dBm	-38.97 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.59047 GHz	-42.76 dBm	-29.76 dB

22:17:41 12.06.2021

Highest Band Edge / Full RB

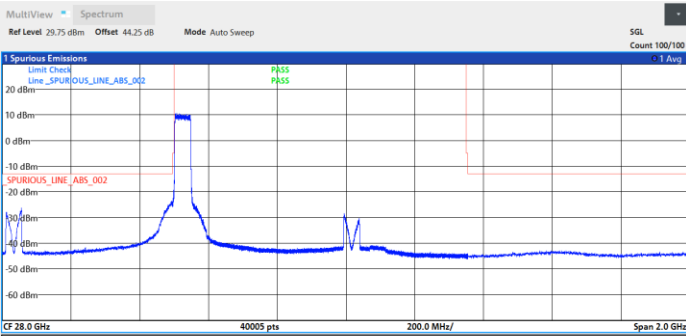


Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.36278 GHz	-39.65 dBm	-26.65 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49523 GHz	-43.42 dBm	-38.42 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.32093 GHz	12.64 dBm	-17.36 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35009 GHz	-13.64 dBm	-8.64 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.35548 GHz	-19.42 dBm	-6.42 dB

01:59:17 13.06.2021

NR Band n261 / 50MHz / 16QAM

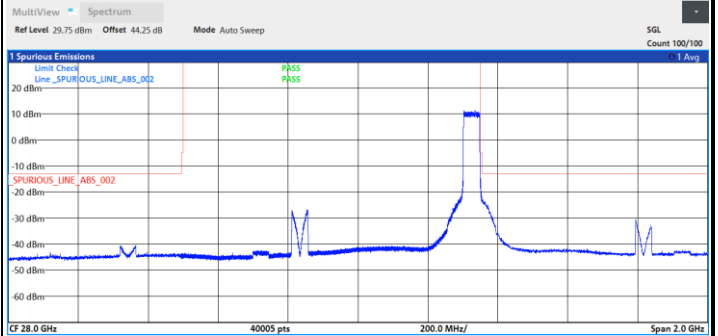
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.49240 GHz	-23.63 dBm	-10.63 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.50000 GHz	-15.98 dBm	-10.98 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.50732 GHz	10.64 dBm	-19.36 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35456 GHz	-44.00 dBm	-39.00 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.62722 GHz	-42.98 dBm	-29.98 dB

22:24:20 12.06.2021

Highest Band Edge / Full RB

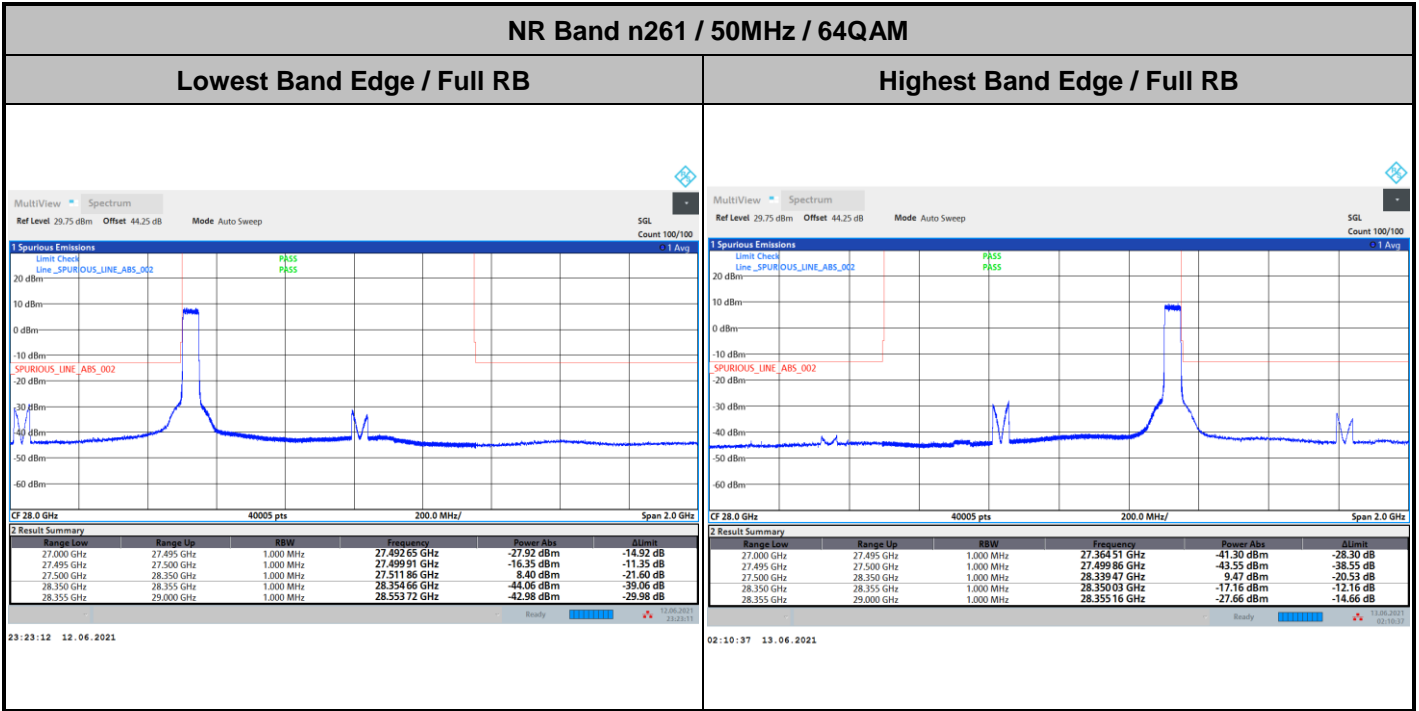


Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.36426 GHz	-40.48 dBm	-27.48 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49545 GHz	-43.51 dBm	-38.51 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.33551 GHz	11.33 dBm	-18.67 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35004 GHz	-14.04 dBm	-9.04 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.35577 GHz	-22.88 dBm	-9.88 dB

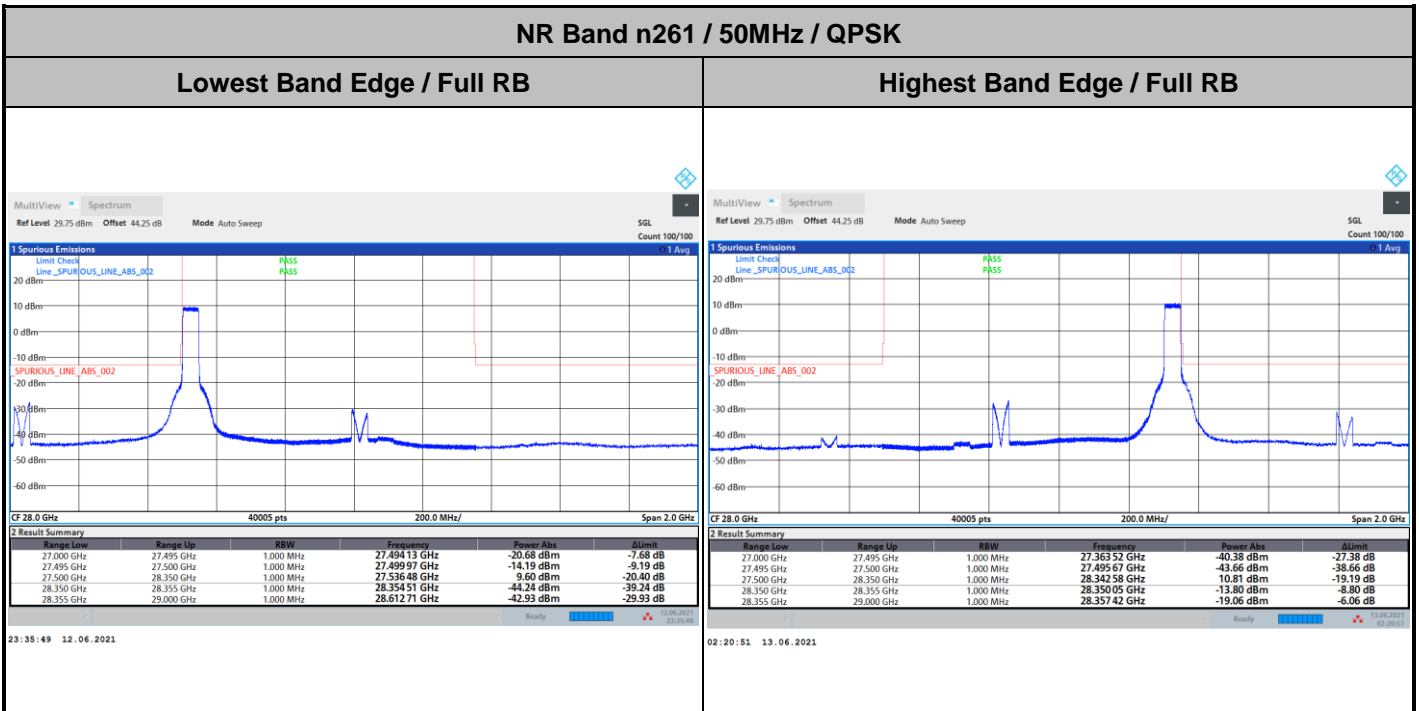
02:07:54 13.06.2021



DFT-s-OFDM Module A



CP-OFDM Module A



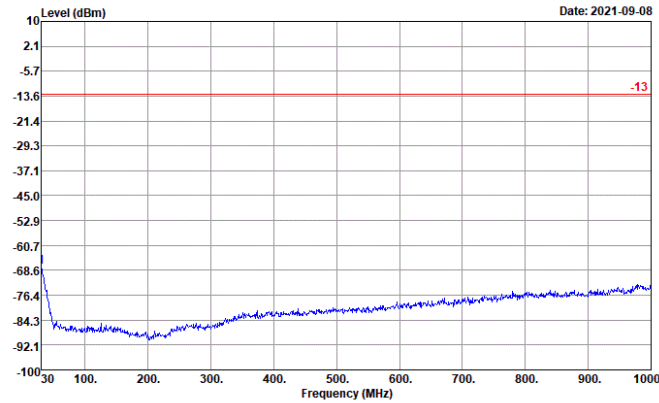


Spurious Emission

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

NR Band n261 (30MHz-1GHz)

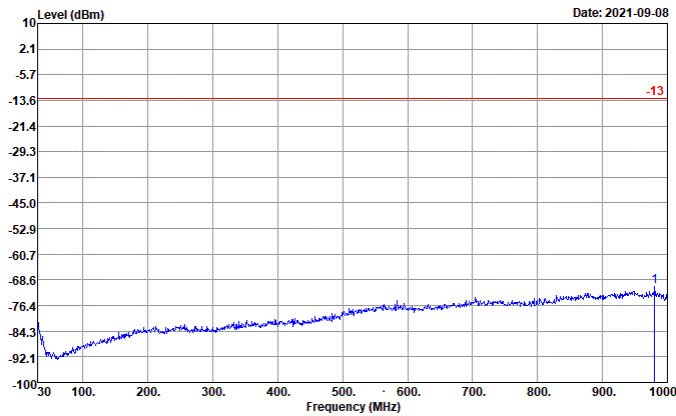
Horizontal



Site : 03CH19-HY
 Condition : -13 ERP EIRP_20210305 HORIZONTAL

Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg		
1	30.00	-67.55	-54.55	-13.00	-79.26	47.44	0.00	35.73	---	---	Peak

Vertical



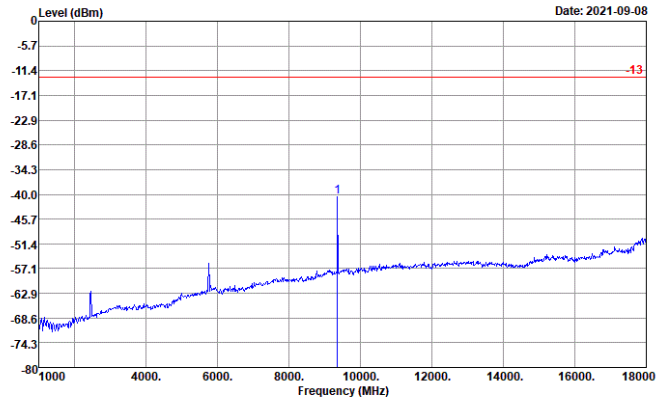
Site : 03CH19-HY
 Condition : -13 ERP EIRP_20210305 VERTICAL

Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
MHz	dBm	dB	dBm	dBm	dB	dB	dB	cm	deg		
1	980.60	-70.58	-57.58	-13.00	-80.01	42.47	0.00	33.04	---	---	Peak



NR Band n261 (1GHz-18GHz)

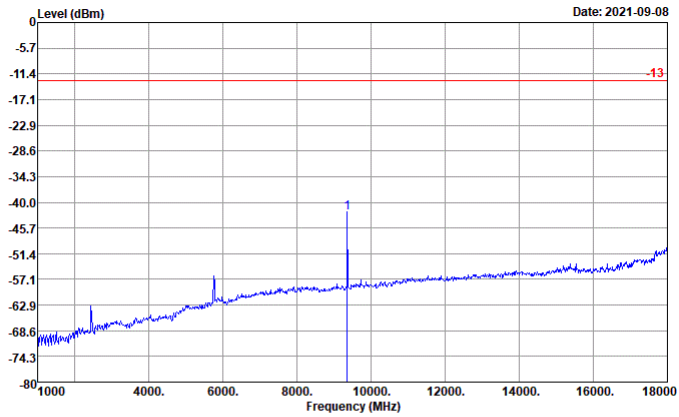
Horizontal



Site : 03CH19-HY
 Condition : -13 ERP EIRP_20210305 HORIZONTAL

: n261											
1	9364.00	-40.55	-27.55	-13.00	-66.88	67.65	0.00	41.32	---	---	Peak

Vertical



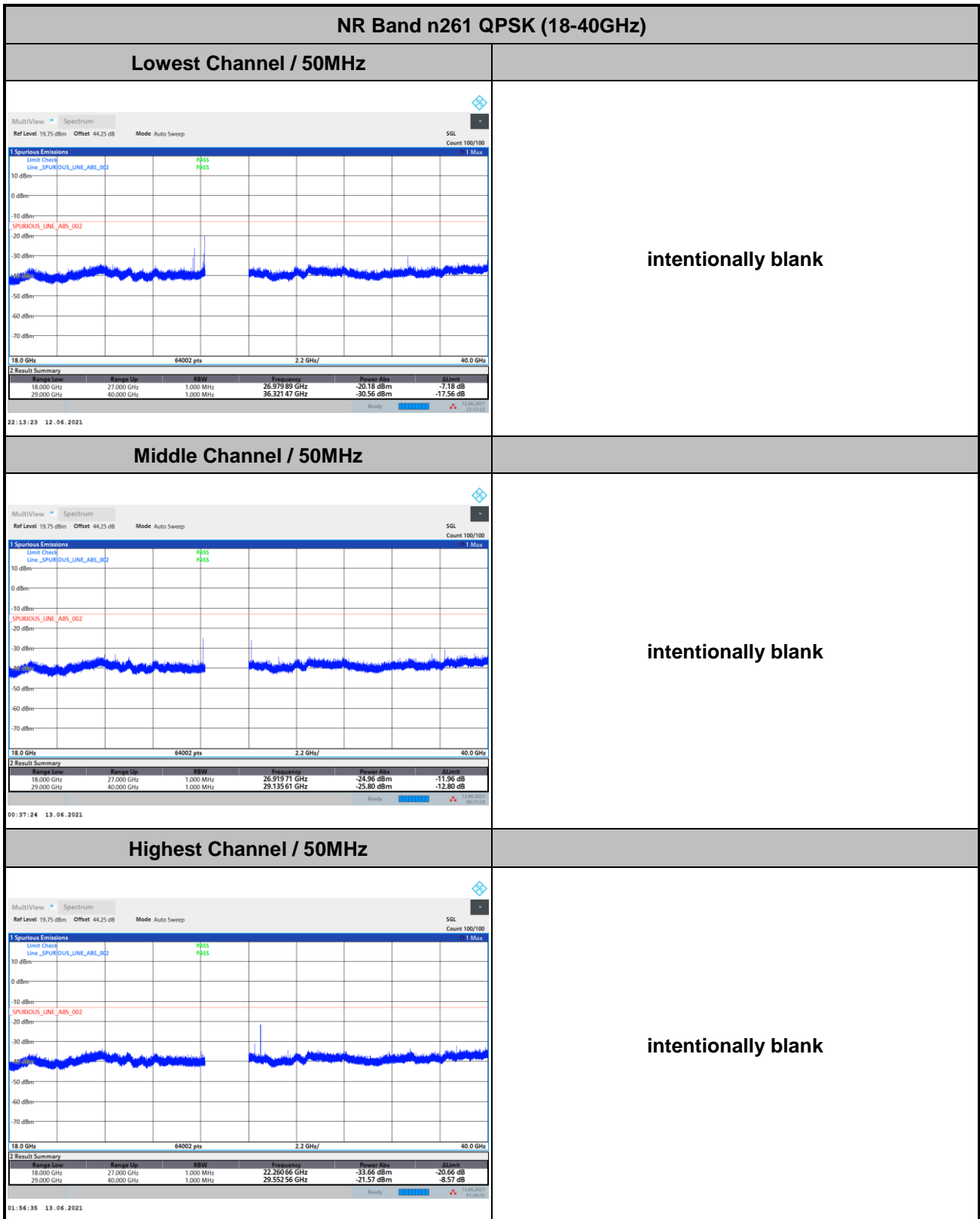
Site : 03CH19-HY
 Condition : -13 ERP EIRP_20210305 VERTICAL

: n261											
1	9364.00	-42.33	-29.33	-13.00	-67.72	66.71	0.00	41.32	---	---	Peak



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

DFT-s-OFDM Module A



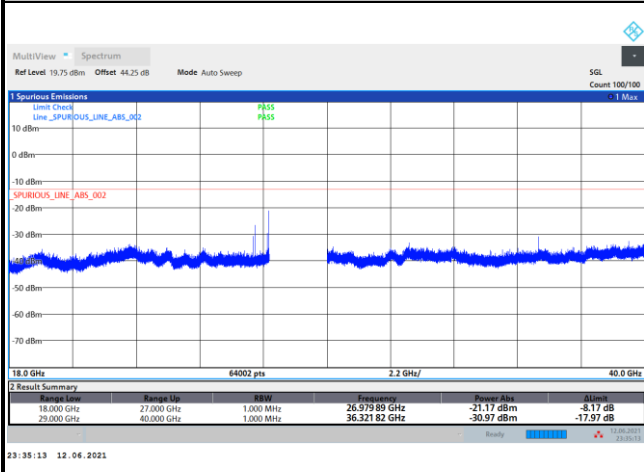
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module A

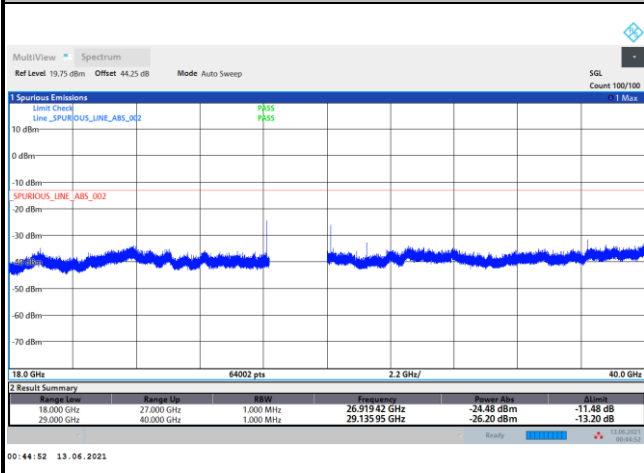
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



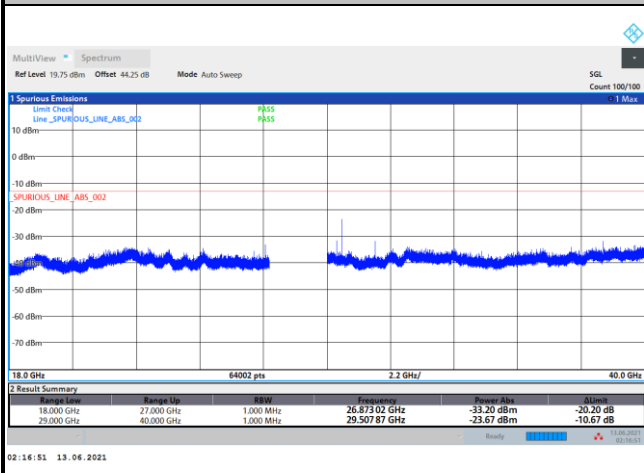
intentionally blank

Middle Channel / 50MHz



intentionally blank

Highest Channel / 50MHz

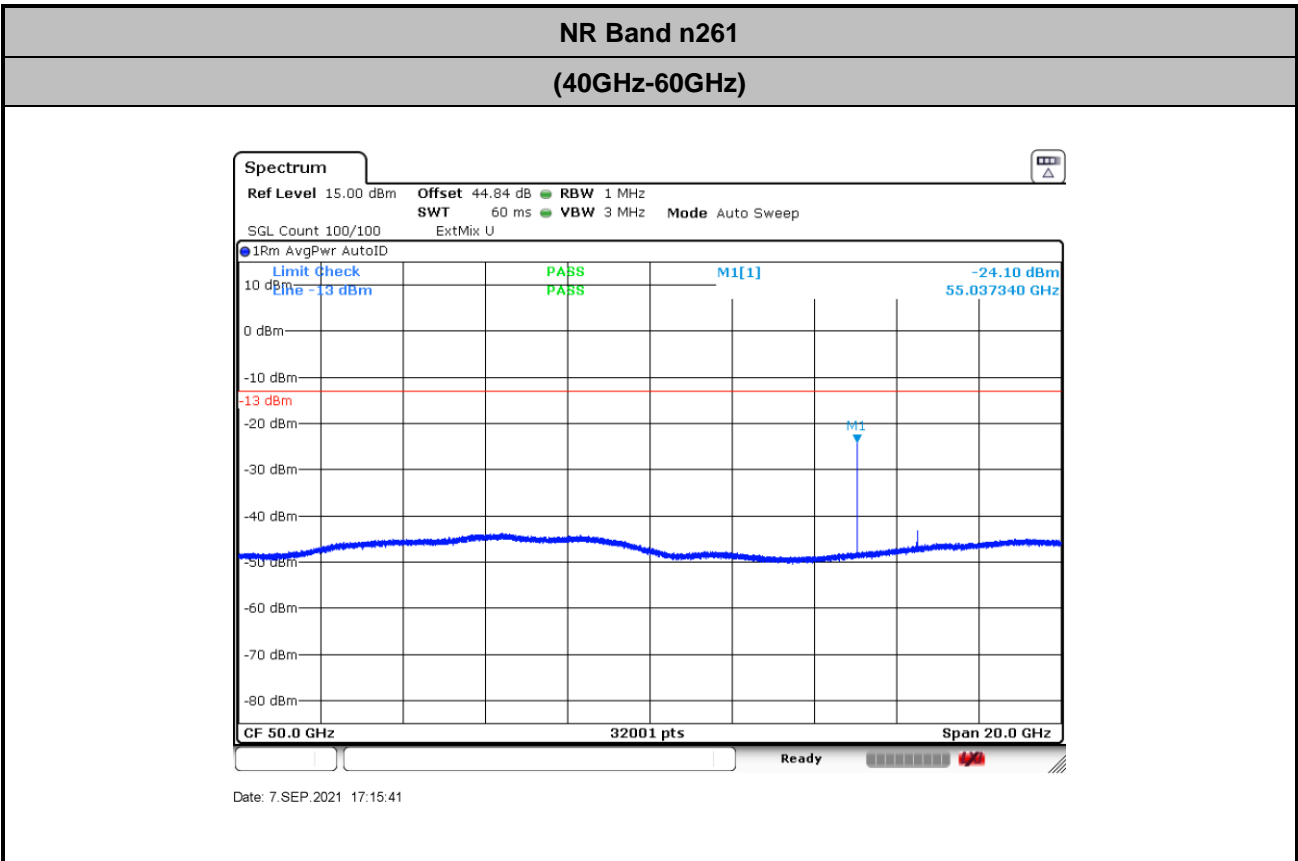


intentionally blank

Remark: In band and out of band frequencies that has reported in previous results are omitted.



There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.

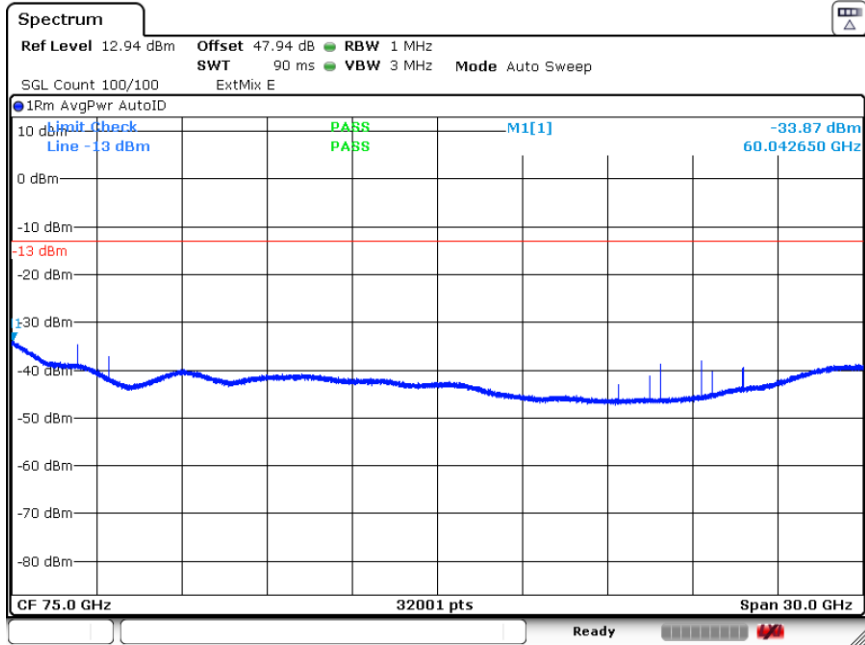


Note: $Offset = Antenna\ Factor\ (dB/m) + Cable\ Loss\ (dB) + 107 + 20\log(D) - 104.8$
 $= 42.3 + 0.34 + 107 + 20\log(1) - 104.8 = 44.84\ (dB)$



NR Band n261

(60GHz-90GHz)



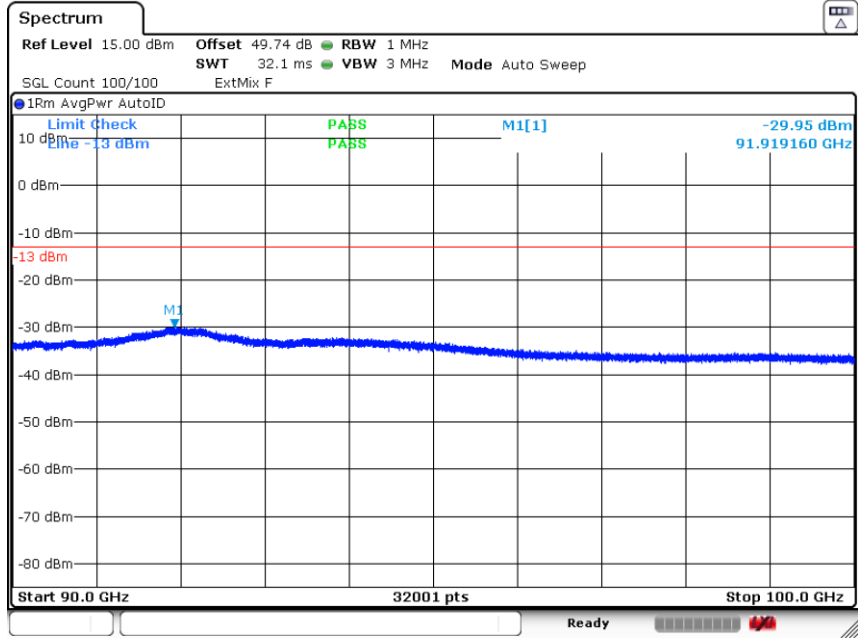
Date: 7.SEP.2021 17:09:51

Note: $Offset = Antenna\ Factor\ (dB/m) + Cable\ Loss\ (dB) + 107 + 20\log(D) - 104.8$
 $= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94\ (dB)$



NR Band n261

(90GHz-100GHz)



Date: 7.SEP.2021 16:44:35

Note: $Offset = Antenna\ Factor\ (dB/m) + Cable\ Loss\ (dB) + 107 + 20\log(D) - 104.8$
 $= 47.2 + 0.34 + 107 + 20\log(1) - 104.8 = 49.74\ (dB)$



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	27.925006	6.000	0.215	Pass
40	Normal Voltage	27.925006	6.000	0.215	
30	Normal Voltage	27.925007	5.000	0.179	
20(Ref.)	Normal Voltage	27.925012	0.000	0.000	
10	Normal Voltage	27.925035	-23.000	0.824	
0	Normal Voltage	27.925017	-5.000	0.179	
-10	Normal Voltage	27.925035	-23.000	0.824	
-20	Normal Voltage	27.925016	-4.000	0.143	
-30	Normal Voltage	27.925011	1.000	0.036	
20	Maximum Voltage	27.925012	0.000	0.000	
20	Normal Voltage	27.925006	6.000	0.215	
20	Battery End Point	27.925009	3.000	0.107	

Note:

1. Normal Voltage = 3.86V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the operation band.



NR Band n261 Module B Beam H

Occupied Bandwidth

Mode	DFT-s-OFDM Module B NR Band n261 : 99%OBW(MHz)		
BW	50MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	46.11	46.40	46.28
Middle CH	46.27	46.22	46.36
Highest CH	46.20	46.24	46.32

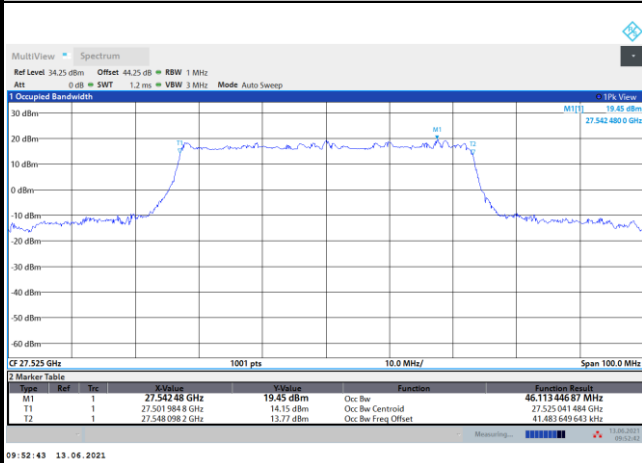
Mode	CP-OFDM Module B NR Band n261 : 99%OBW(MHz)
BW	50MHz
Mod.	QPSK
Lowest CH	46.29
Middle CH	46.75
Highest CH	46.08



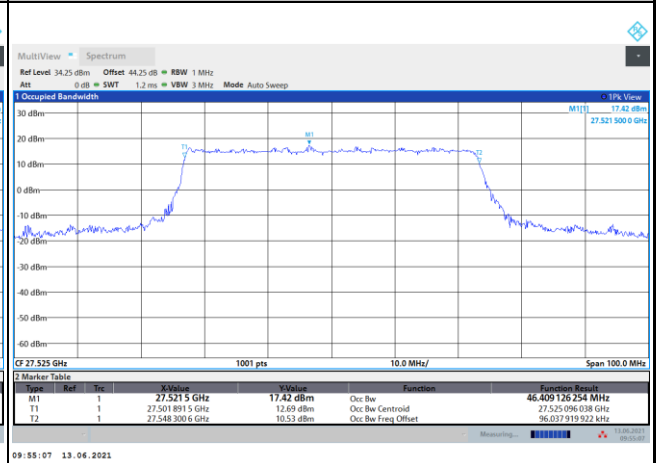
DFT-s-OFDM Module B

NR Band n261

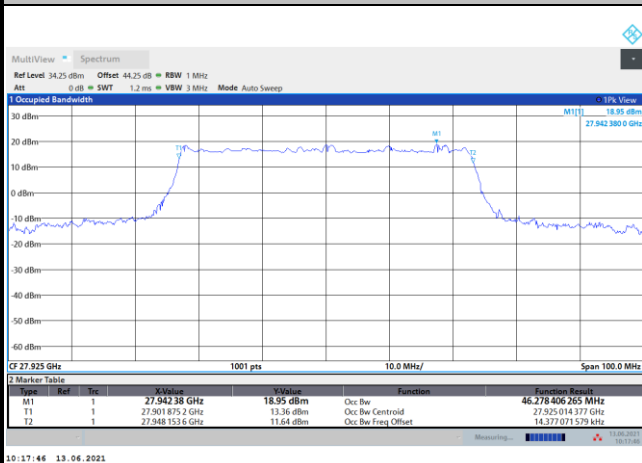
Lowest Channel / 50MHz / QPSK



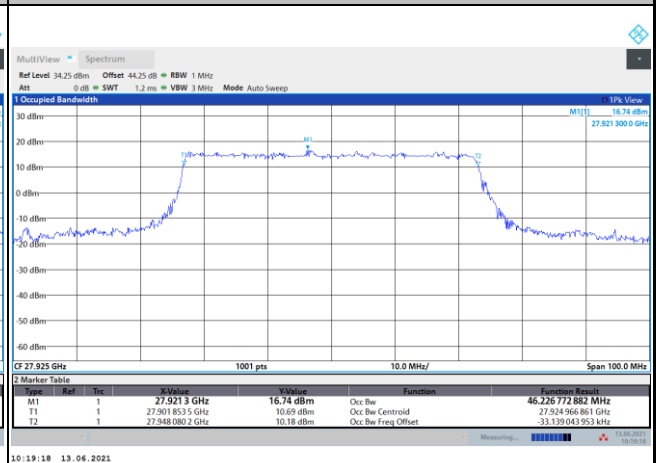
Lowest Channel / 50MHz / 16QAM



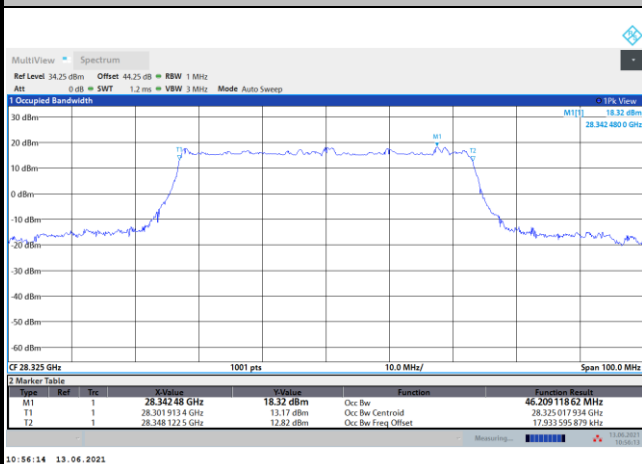
Middle Channel / 50MHz / QPSK



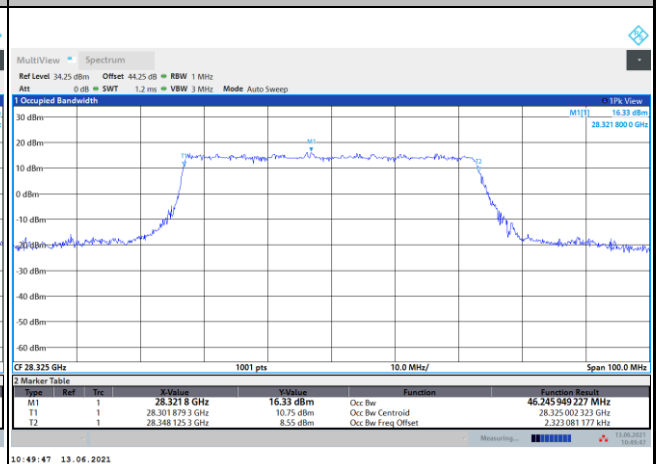
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

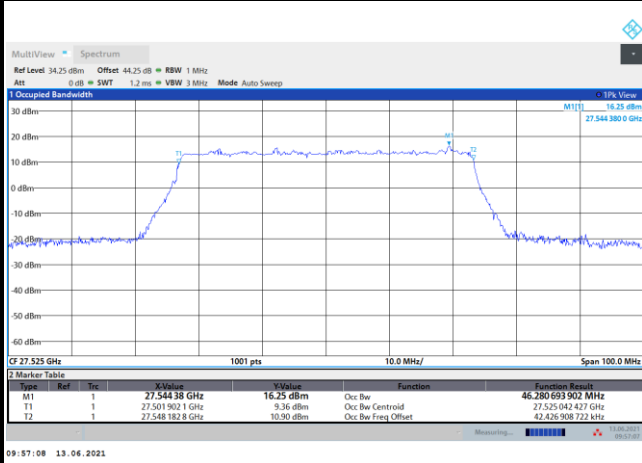




DFT-s-OFDM Module B

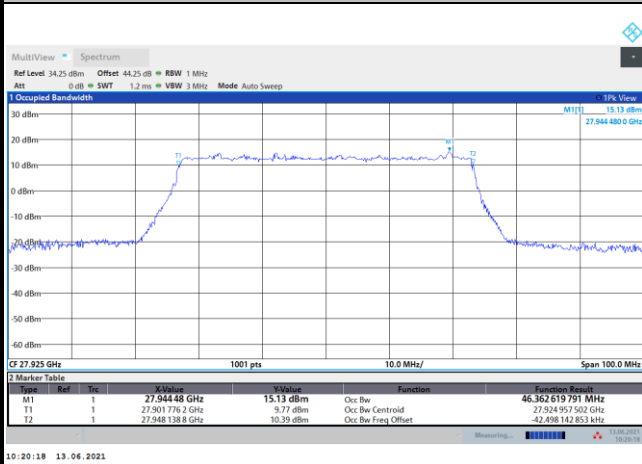
NR Band n261

Lowest Channel / 50MHz / 64QAM



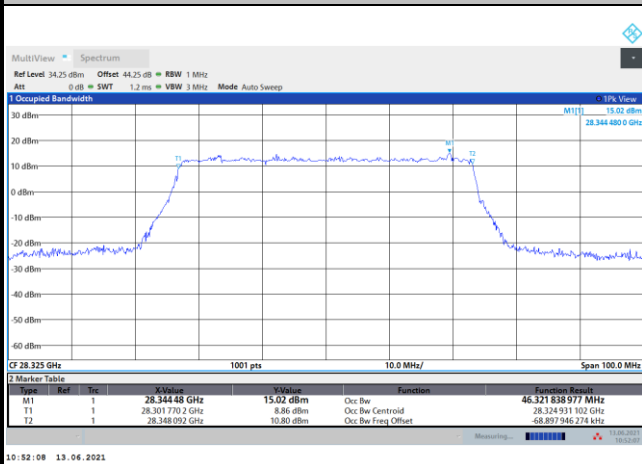
intentionally blank

Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



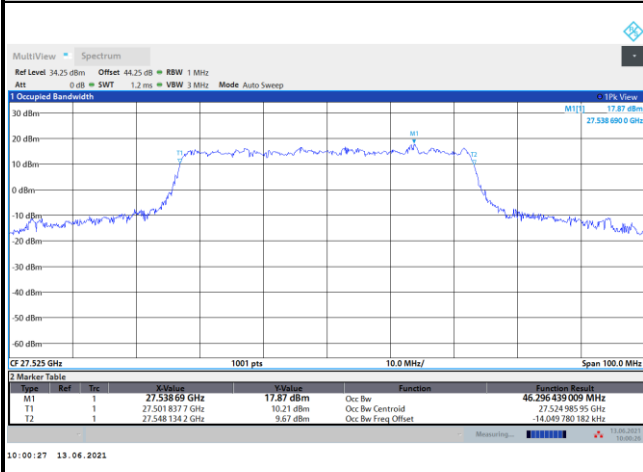
intentionally blank



CP-OFDM Module B

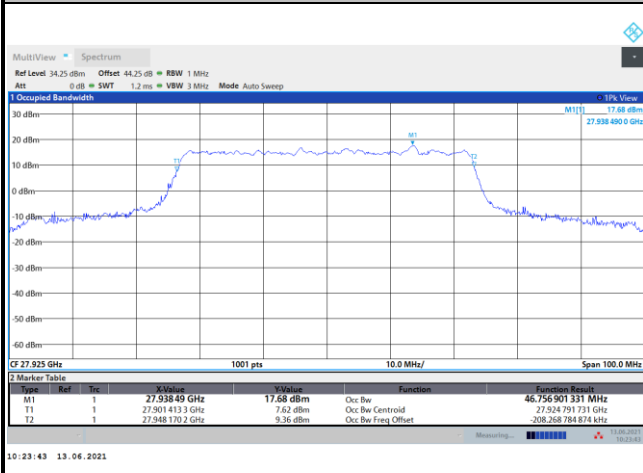
NR Band n261

Lowest Channel / 50MHz / QPSK



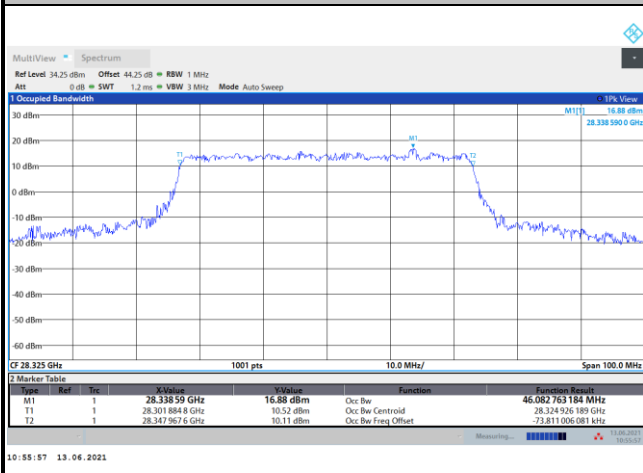
intentionally blank

Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



intentionally blank



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module B NR Band n261 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-16.91	-6.76	-7.81
	>10%OB	≤ -13	-21.96	-18.25	-19.45
High CH	0~10%OB	≤ -5	-7.16	-8.41	-9.76
	>10%OB	≤ -13	-17.29	-19.82	-21.31
Result			Compliance		

Mode			CP-OFDM Module B NR Band n261 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-6.88		
	>10%OB	≤ -13	-16.56		
High CH	0~10%OB	≤ -5	-6.92		
	>10%OB	≤ -13	-18.91		
Result			Compliance		

Mode			DFT-s-OFDM Module B NR Band n261 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-13.31	-17.62	-18.14
	>10%OB	≤ -13	-20.08	-22.76	-28.19
High CH	0~10%OB	≤ -5	-16.67	-16.95	-20.77
	>10%OB	≤ -13	-23.09	-26.15	-31.63
Result			Compliance		

Mode			CP-OFDM Module B NR Band n261 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-14.85		
	>10%OB	≤ -13	-19.86		
High CH	0~10%OB	≤ -5	-17.00		
	>10%OB	≤ -13	-22.73		
Result			Compliance		

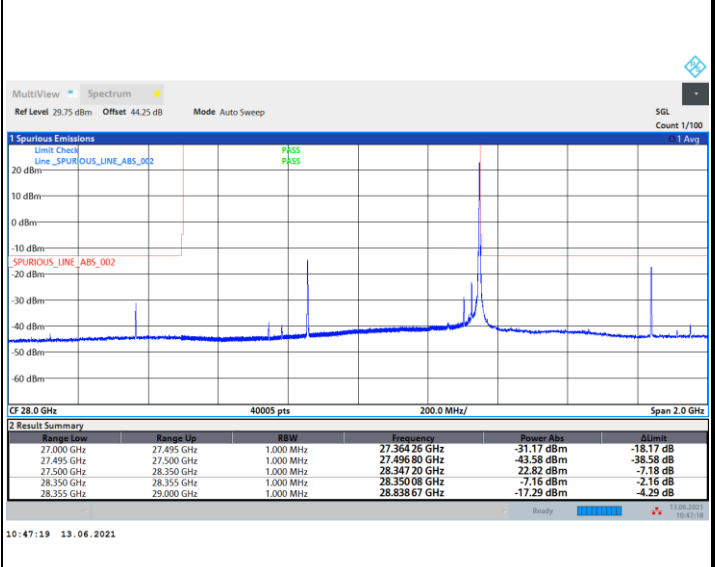
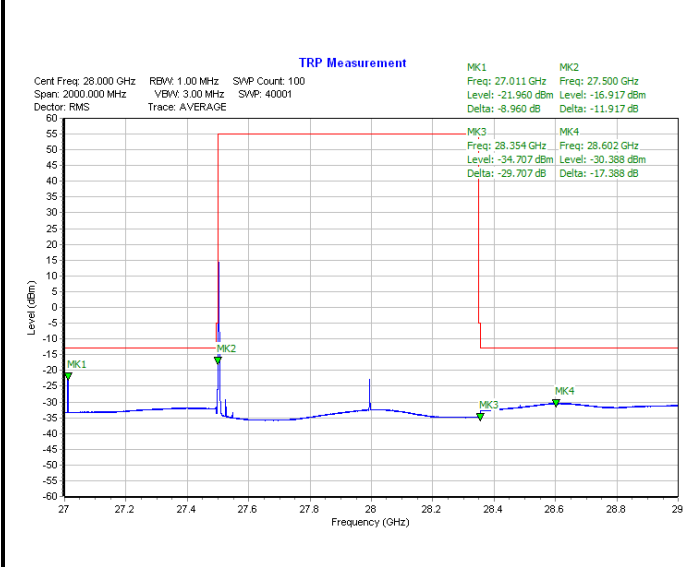


DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

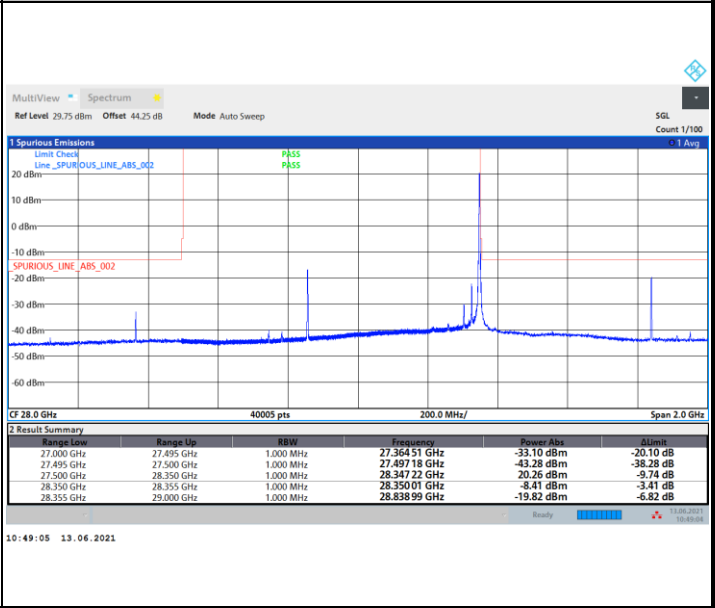
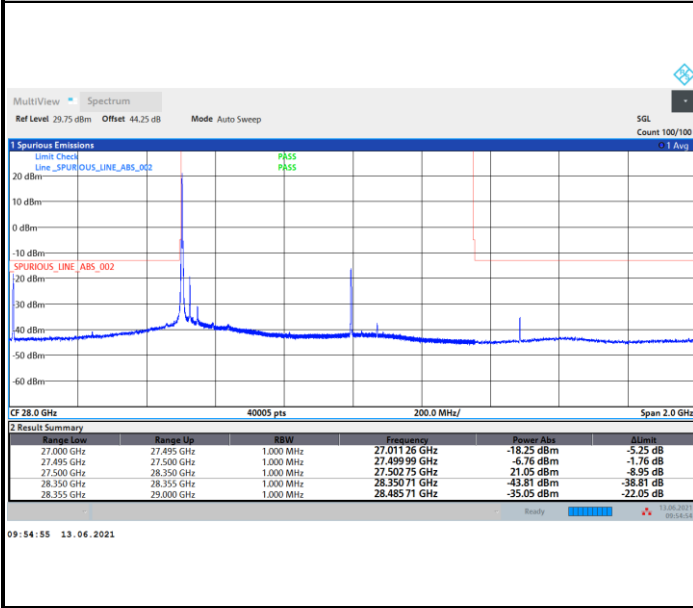
Highest Band Edge / 1 RB



NR Band n261 / 50MHz / 16QAM

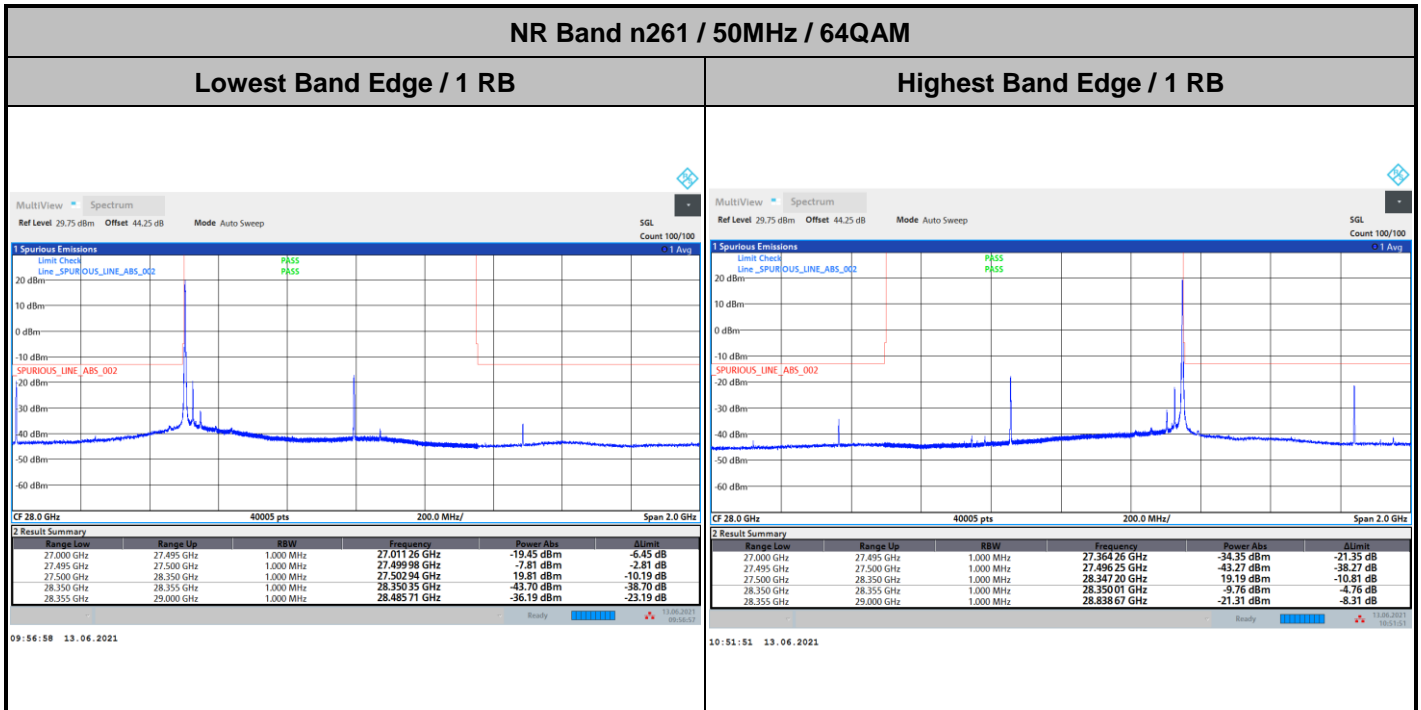
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

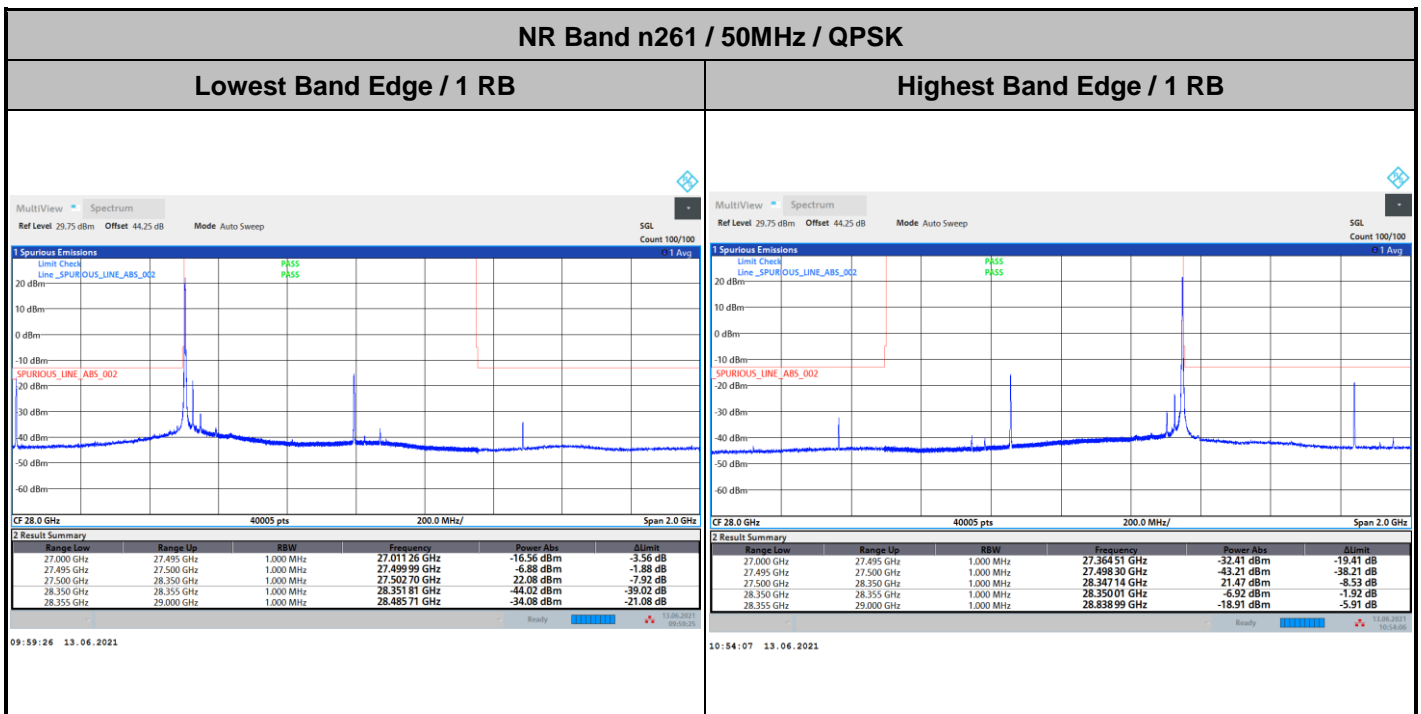




DFT-s-OFDM Module B



CP-OFDM Module B

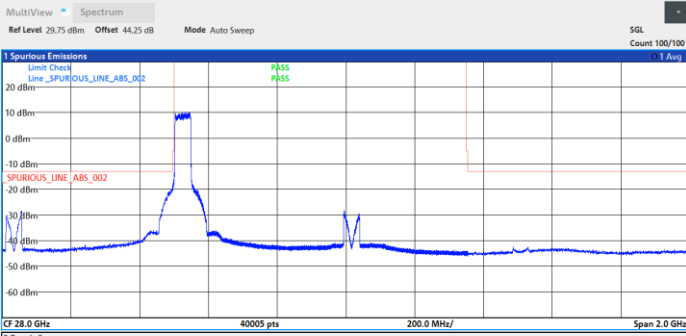




DFT-s-OFDM Module B

NR Band n261 / 50MHz / QPSK

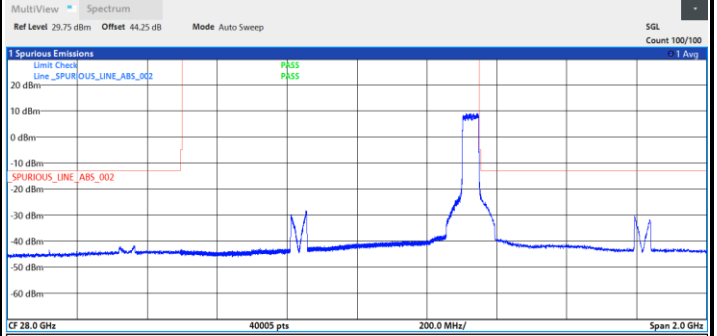
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.49216 GHz	-20.08 dBm	-7.08 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49999 GHz	-13.31 dBm	-8.31 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.54551 GHz	10.24 dBm	-19.76 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35309 GHz	-44.12 dBm	-39.12 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.48635 GHz	-42.33 dBm	-29.33 dB

09:53:24 13.06.2021

Highest Band Edge / Full RB

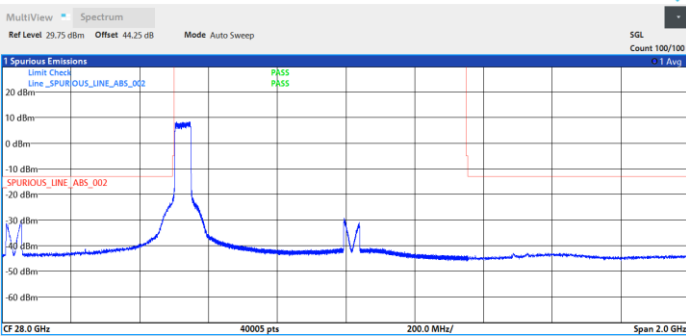


Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.36204 GHz	-41.68 dBm	-28.68 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49571 GHz	-43.26 dBm	-38.26 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.32433 GHz	9.05 dBm	-20.95 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35012 GHz	-16.67 dBm	-11.67 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.35548 GHz	-23.09 dBm	-10.09 dB

10:57:32 13.06.2021

NR Band n261 / 50MHz / 16QAM

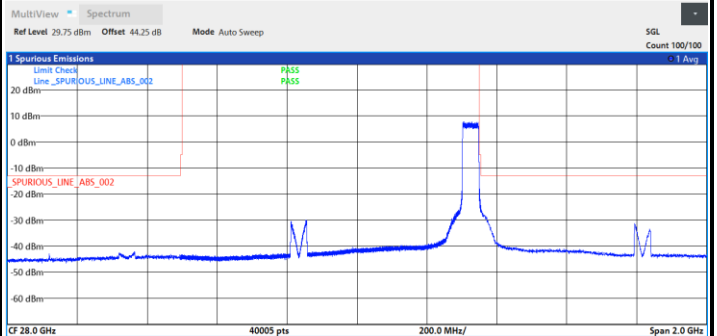
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.49453 GHz	-22.76 dBm	-9.76 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49987 GHz	-17.62 dBm	-12.62 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.54296 GHz	8.39 dBm	-21.61 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35397 GHz	-43.99 dBm	-38.99 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.58918 GHz	-42.90 dBm	-29.90 dB

09:55:37 13.06.2021

Highest Band Edge / Full RB

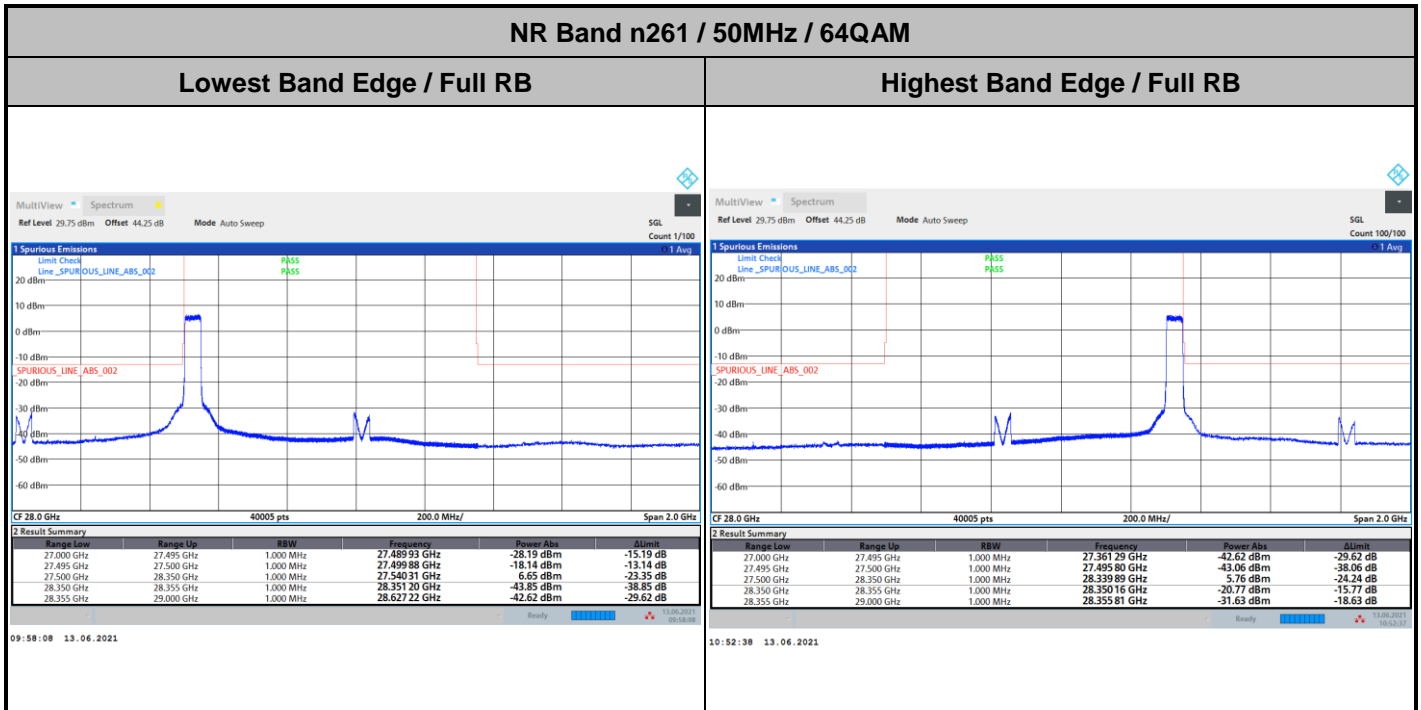


Range Low	Range Up	RBW	Frequency	Power Abs	Limit
27.000 GHz	27.495 GHz	1.000 MHz	27.36253 GHz	-42.23 dBm	-29.23 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49913 GHz	-43.37 dBm	-38.37 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.30698 GHz	7.72 dBm	-22.28 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35005 GHz	-16.95 dBm	-11.95 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.35581 GHz	-26.15 dBm	-13.15 dB

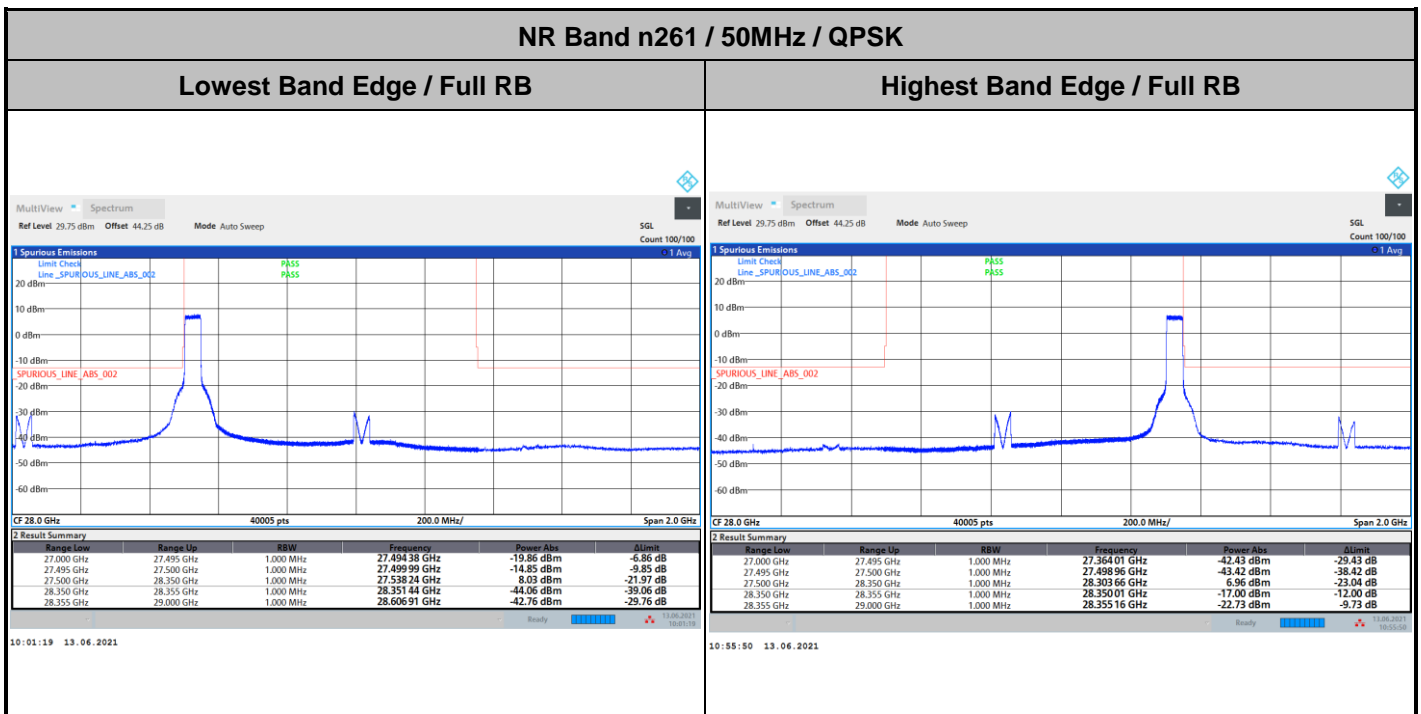
10:49:41 13.06.2021



DFT-s-OFDM Module B



CP-OFDM Module B



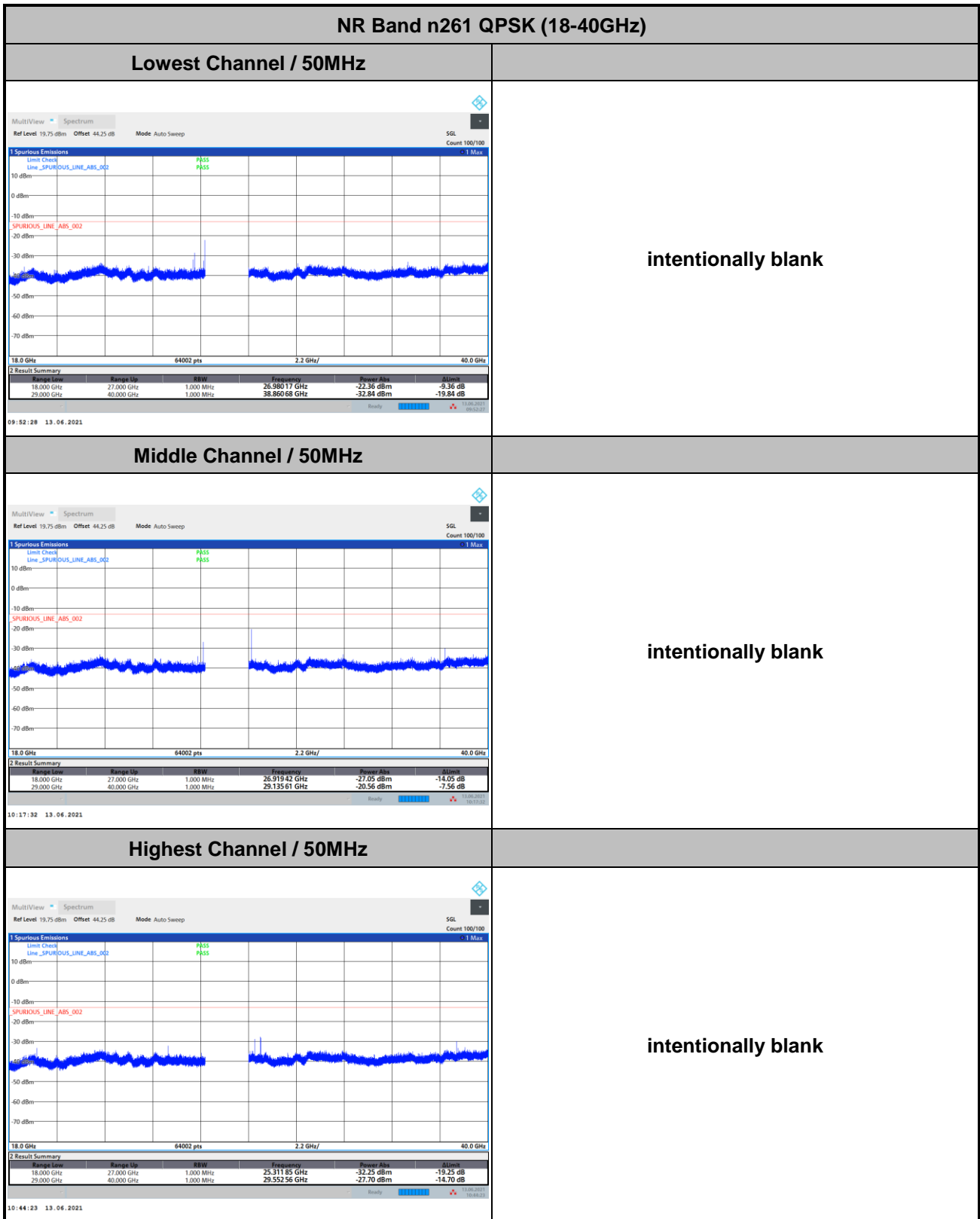


Spurious Emission



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

DFT-s-OFDM Module B



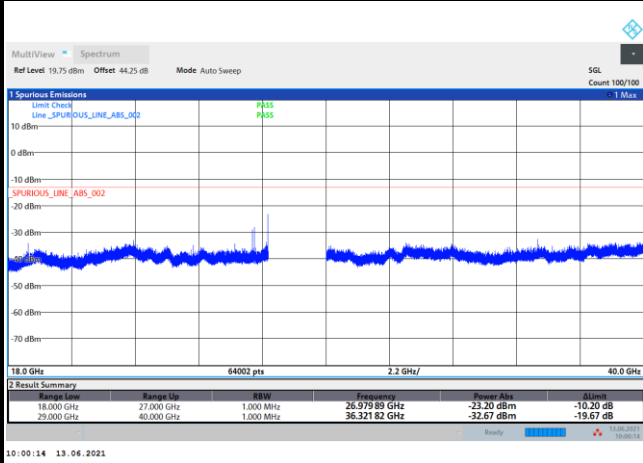
Remark: In band and out of band frequencies that has reported in previous results are omitted.



CP-OFDM Module B

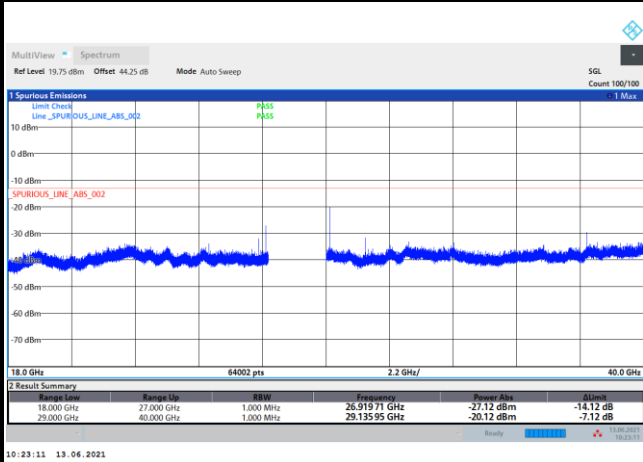
NR Band n261 QPSK (18-40GHz)

Lowest Channel / 50MHz



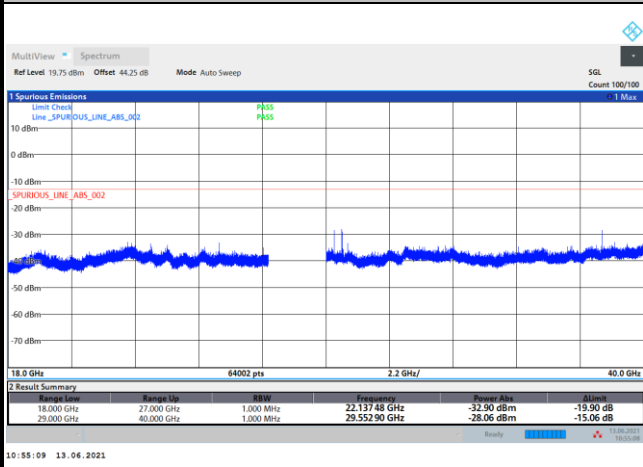
intentionally blank

Middle Channel / 50MHz



intentionally blank

Highest Channel / 50MHz



intentionally blank

Remark: In band and out of band frequencies that has reported in previous results are omitted.



NR Band n261 Module B Beam V

Occupied Bandwidth

Mode	DFT-s-OFDM Module B NR Band n261 : 99%OBW(MHz)		
BW	50MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	46.17	46.64	46.07
Middle CH	46.09	46.11	46.29
Highest CH	46.06	46.25	46.21

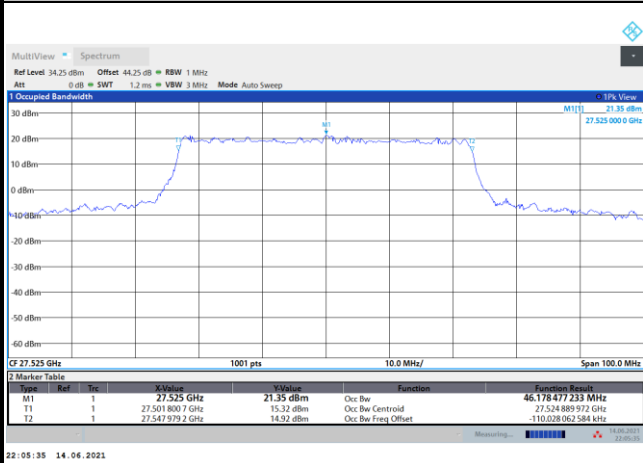
Mode	CP-OFDM Module B NR Band n261 : 99%OBW(MHz)
BW	50MHz
Mod.	QPSK
Lowest CH	46.67
Middle CH	46.47
Highest CH	46.33



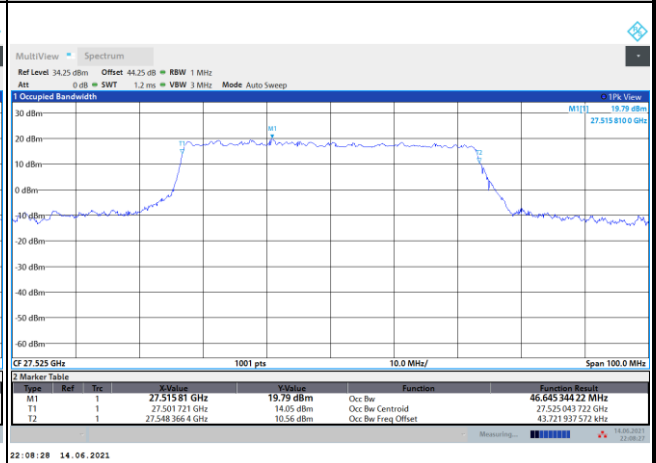
DFT-s-OFDM Module B

NR Band n261

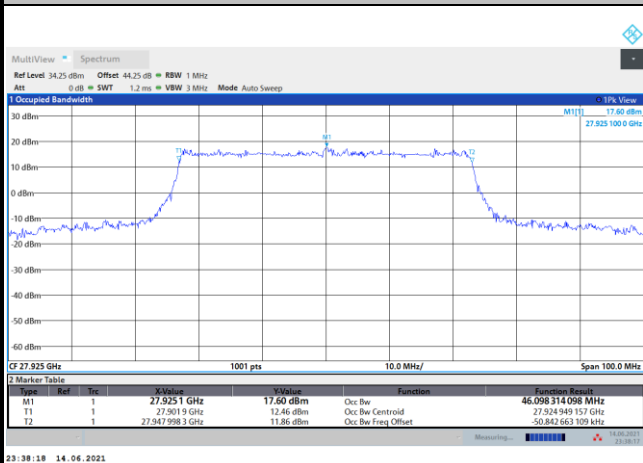
Lowest Channel / 50MHz / QPSK



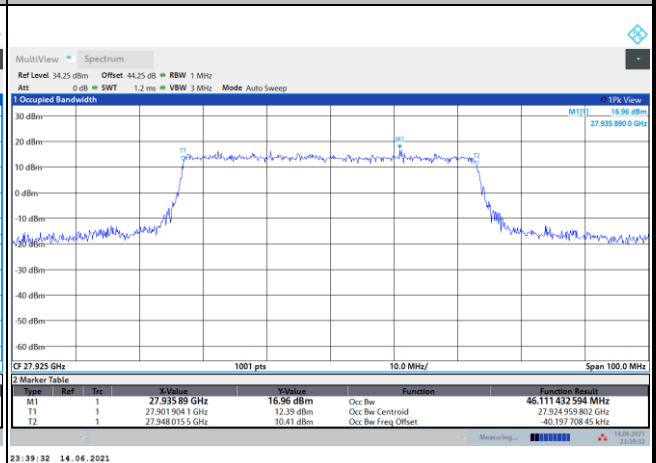
Lowest Channel / 50MHz / 16QAM



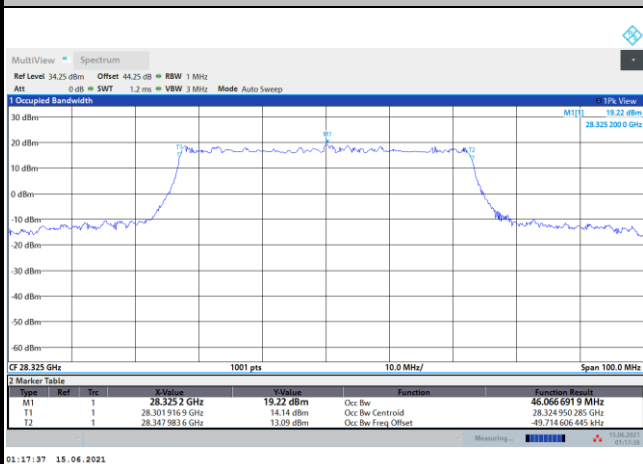
Middle Channel / 50MHz / QPSK



Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

