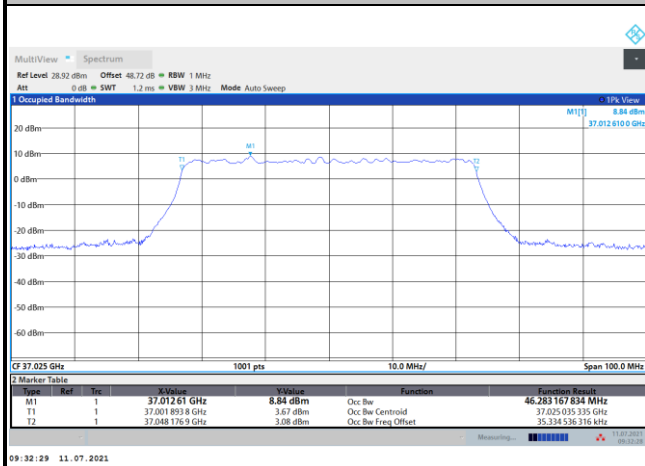




DFT-s-OFDM Module B

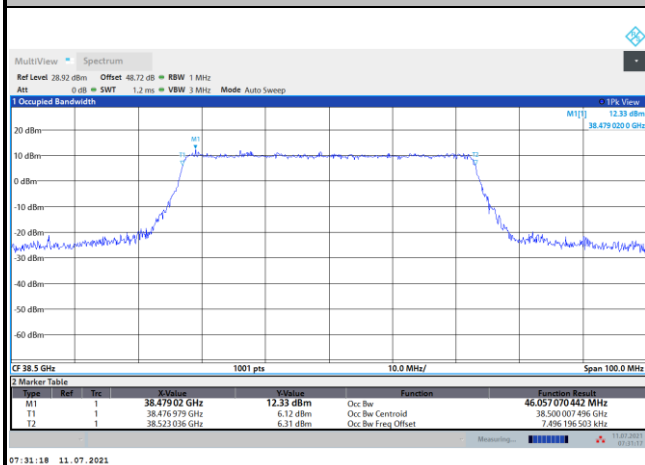
NR Band n260

Lowest Channel / 50MHz / 64QAM



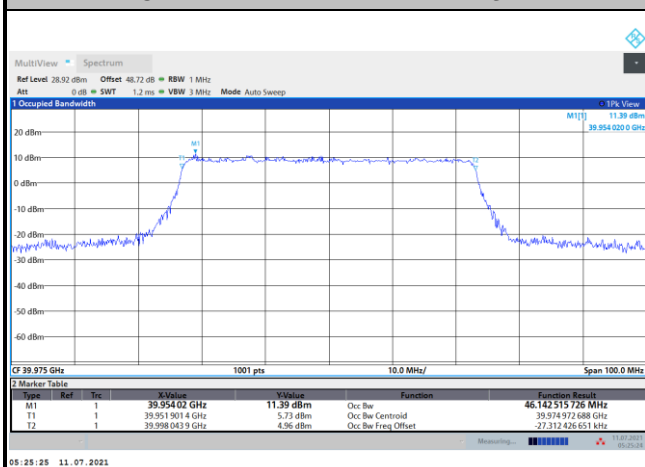
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Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



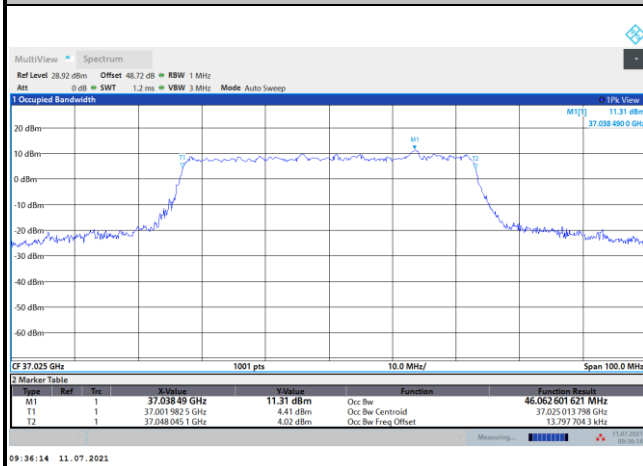
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CP-OFDM Module B

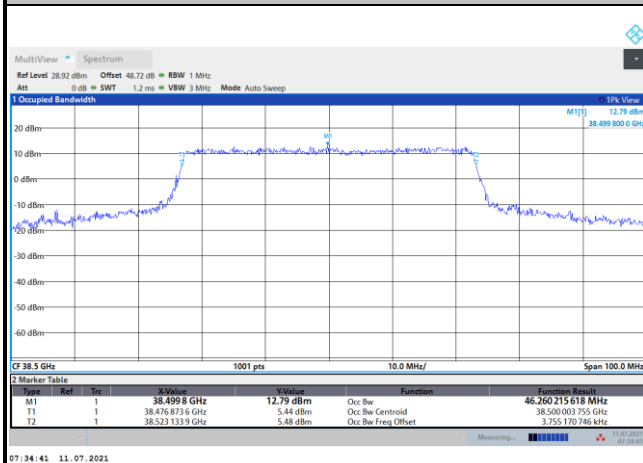
NR Band n260

Lowest Channel / 50MHz / QPSK



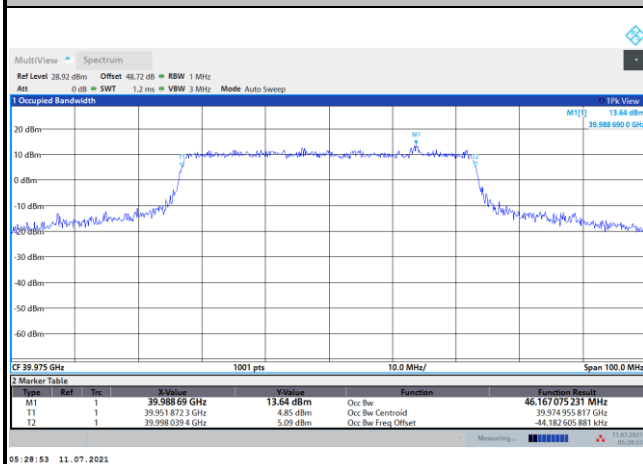
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Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



intentionally blank

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module B NR Band n260 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-11.65	-12.99	-14.67
	>10%OB	≤ -13	-23.57	-26.02	-27.30
HighCH	0~10%OB	≤ -5	-9.58	-12.34	-13.11
	>10%OB	≤ -13	-19.94	-22.40	-23.53
Result			Compliance		

Mode			CP-OFDM Module B NR Band n260 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-12.57		
	>10%OB	≤ -13	-25.03		
High CH	0~10%OB	≤ -5	-10.77		
	>10%OB	≤ -13	-21.42		
Result			Compliance		

Mode			DFT-s-OFDM Module B NR Band n260 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-23.41	-25.06	-24.96
	>10%OB	≤ -13	-29.84	-31.63	-34.76
HighCH	0~10%OB	≤ -5	-17.69	-19.19	-22.23
	>10%OB	≤ -13	-20.98	-24.59	-30.64
Result			Compliance		

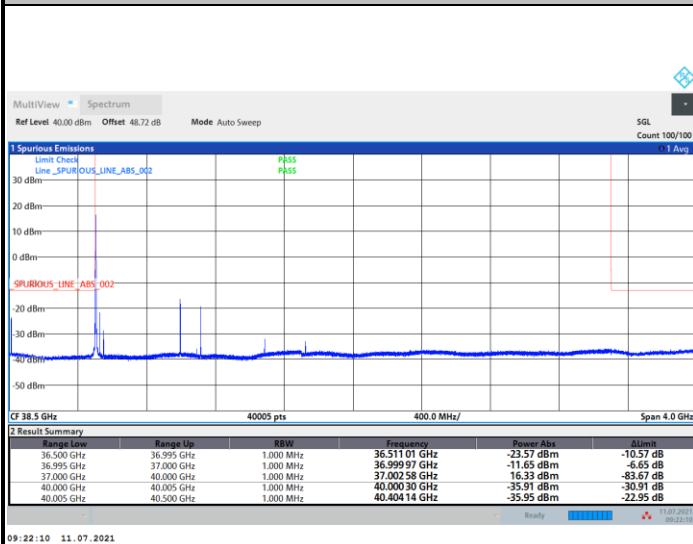
Mode			CP-OFDM Module B NR Band n260 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-24.06		
	>10%OB	≤ -13	-29.82		
High CH	0~10%OB	≤ -5	-18.29		
	>10%OB	≤ -13	-22.23		
Result			Compliance		



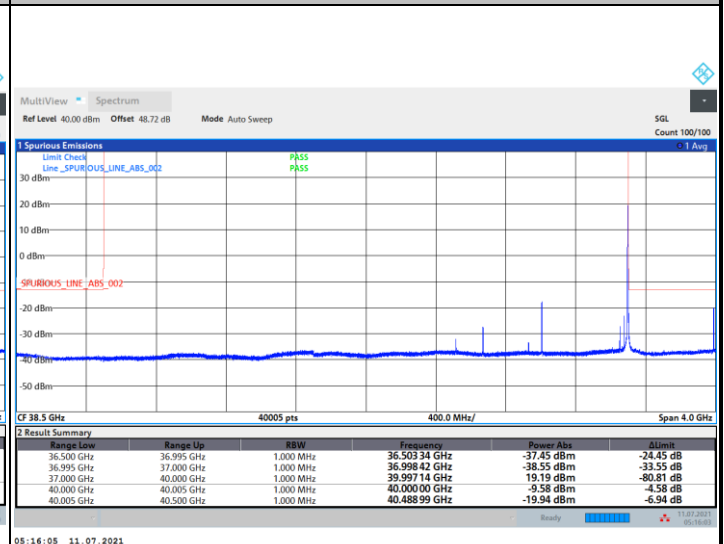
DFT-s-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB

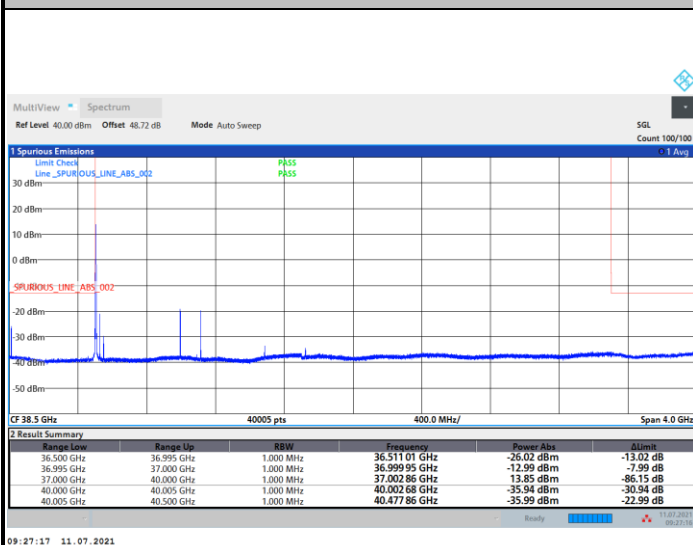


Highest Band Edge / 1 RB

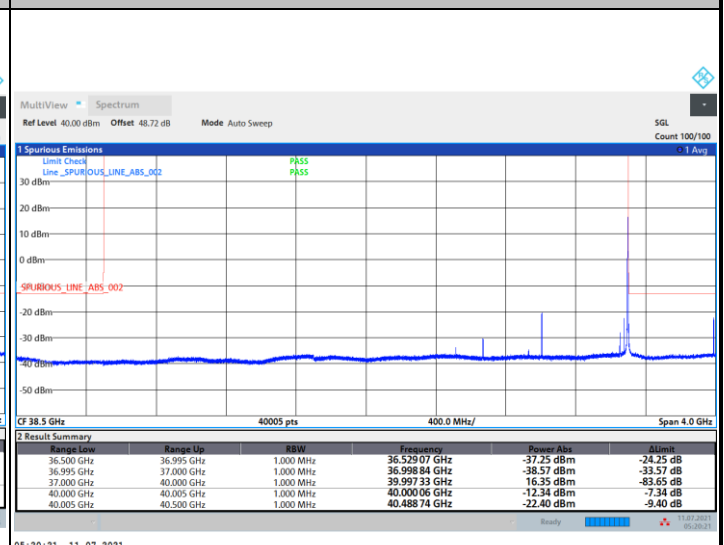


NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

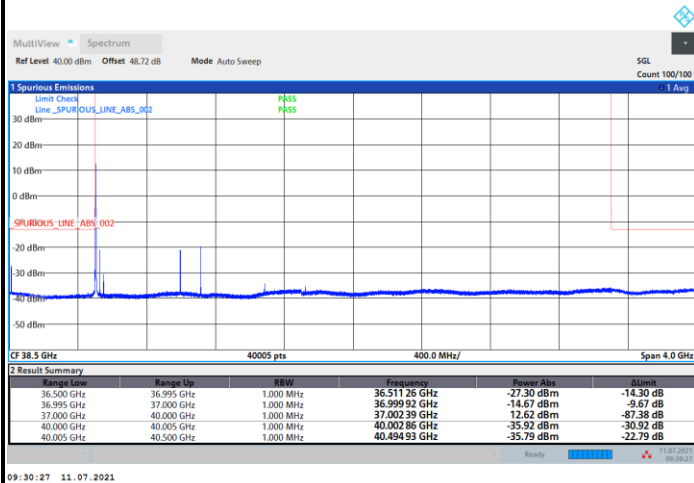




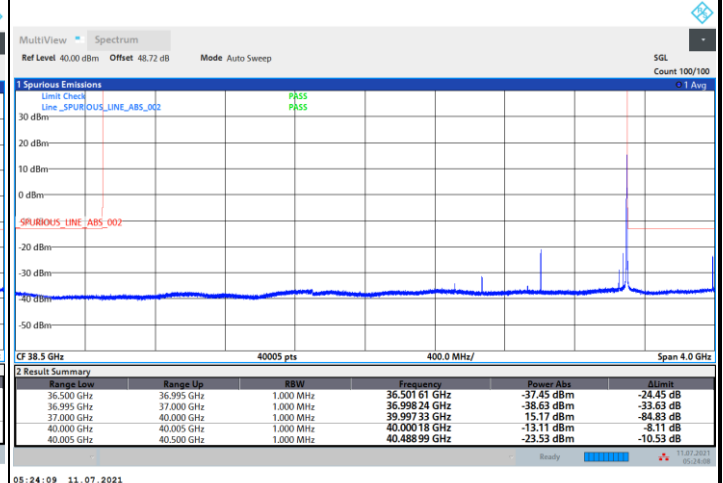
DFT-s-OFDM Module B

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / 1 RB



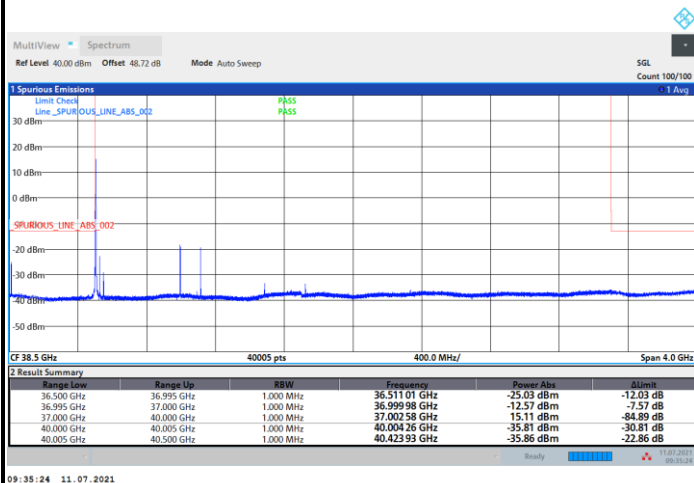
Highest Band Edge / 1 RB



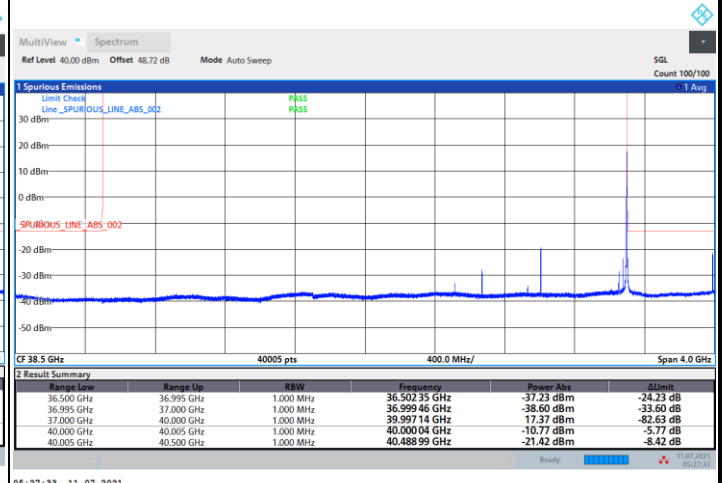
CP-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

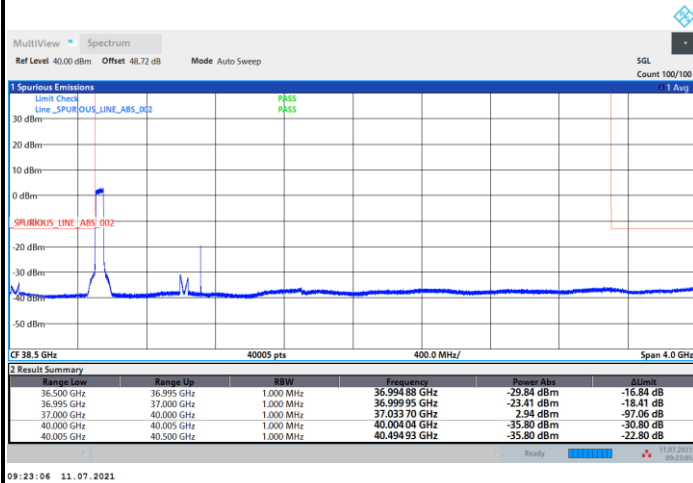




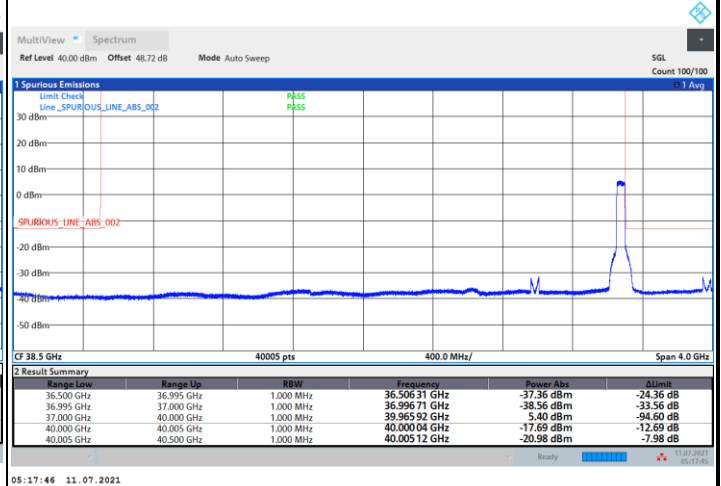
DFT-s-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

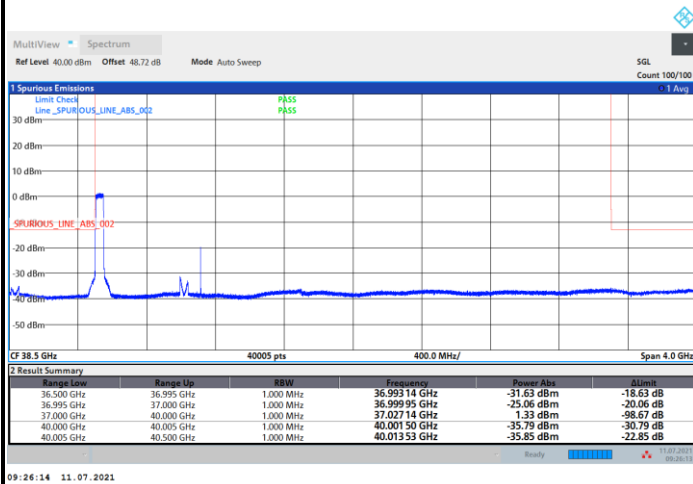


Highest Band Edge / Full RB

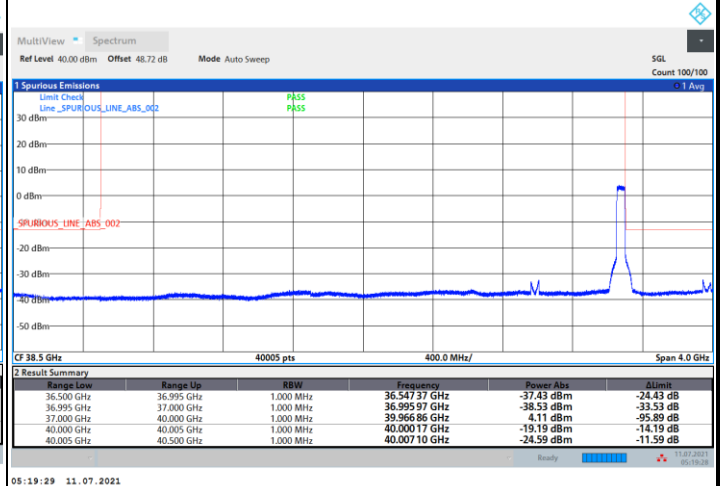


NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



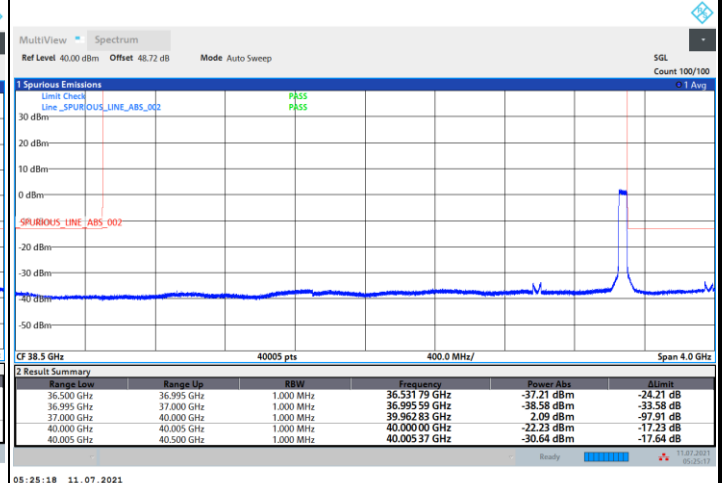
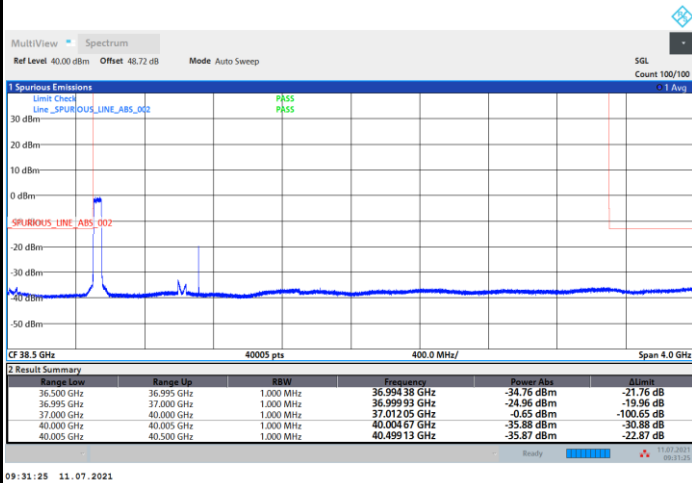


DFT-s-OFDM Module B

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

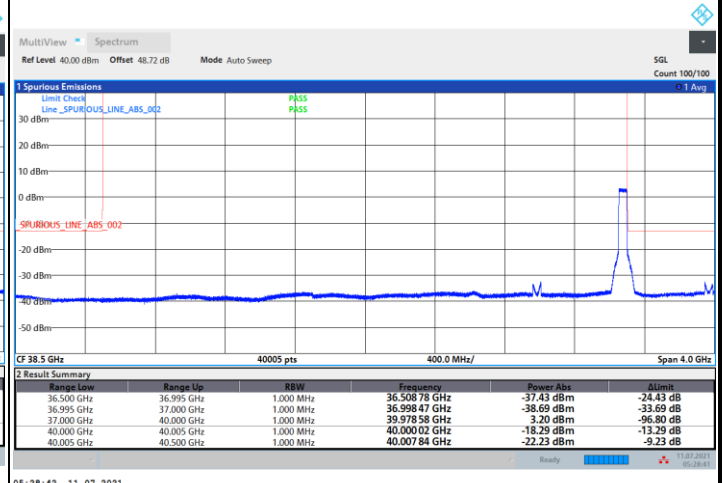
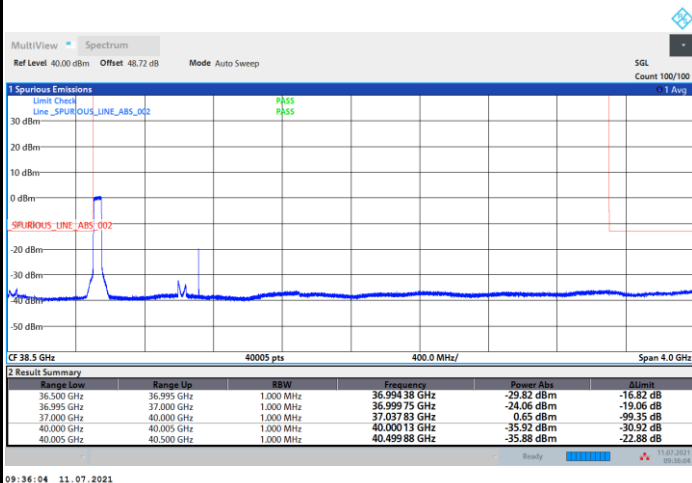


CP-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB





Spurious Emission



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

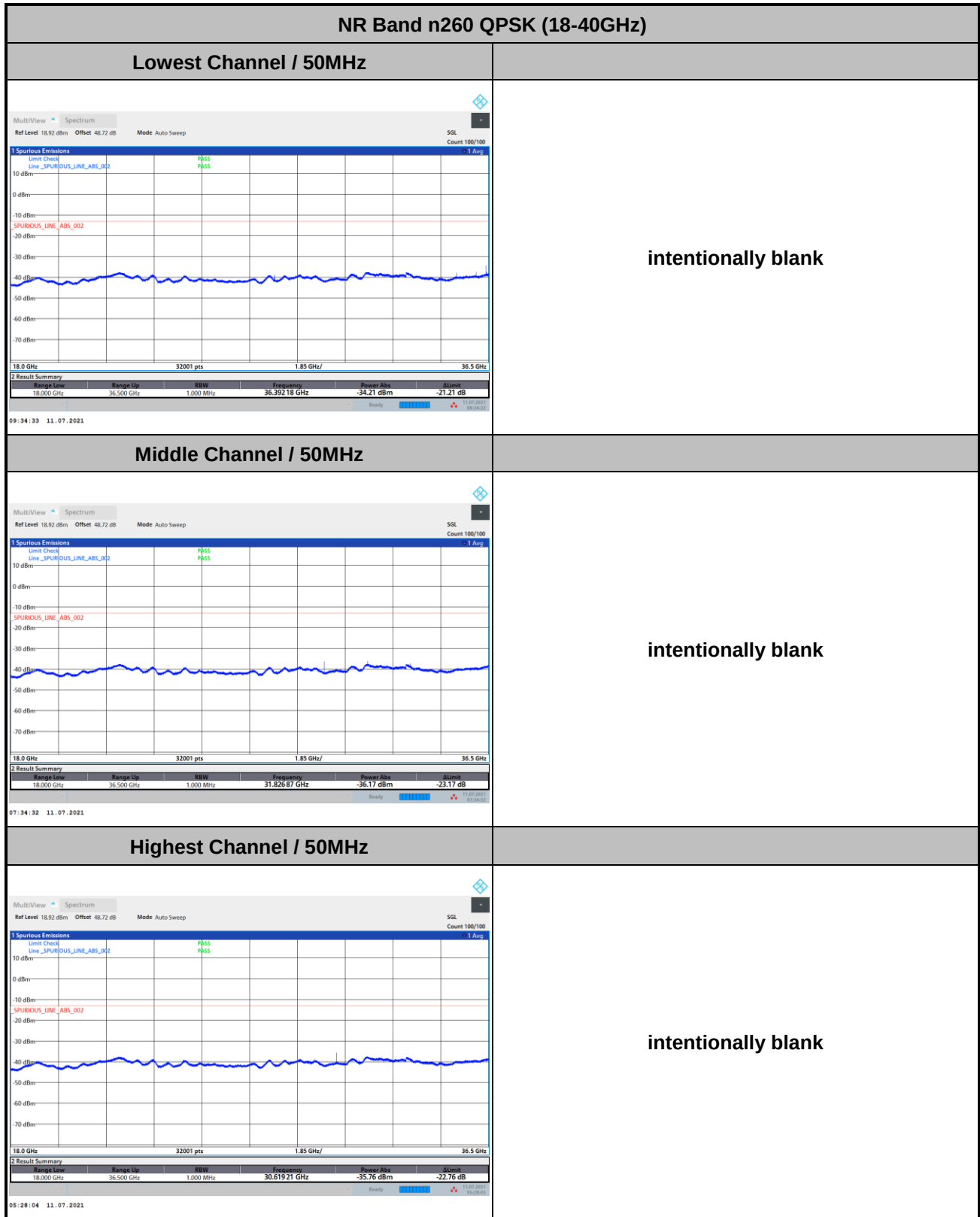
DFT-s-OFDM Module B



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



CP-OFDM Module B



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

**NR Band n260 Module B Beam H+V****Occupied Bandwidth**

Mode	DFT-s-OFDM Module B NR Band n260 : 99%OBW(MHz)		
BW	50MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	45.94	45.90	45.79
Middle CH	45.89	46.09	45.89
Highest CH	45.96	45.98	46.03

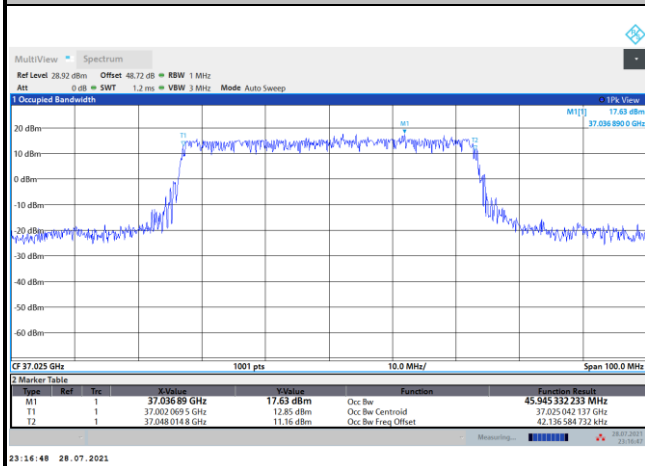
Mode	CP-OFDM Module B NR Band n260 : 99%OBW(MHz)	
BW	50MHz	
Mod.	QPSK	
Lowest CH	46.00	
Middle CH	46.02	
Highest CH	46.11	



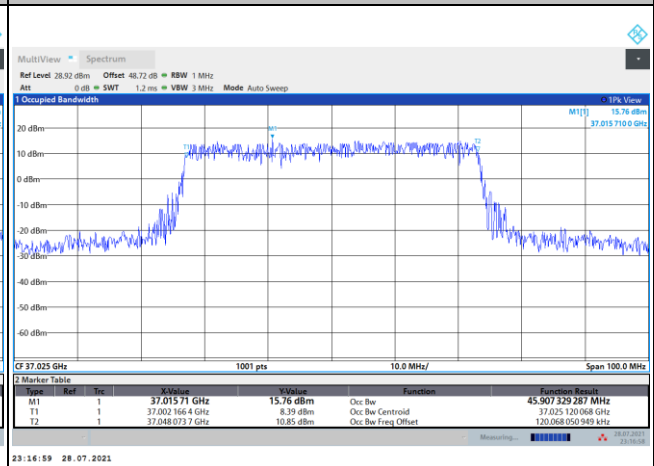
DFT-s-OFDM Module B

NR Band n260

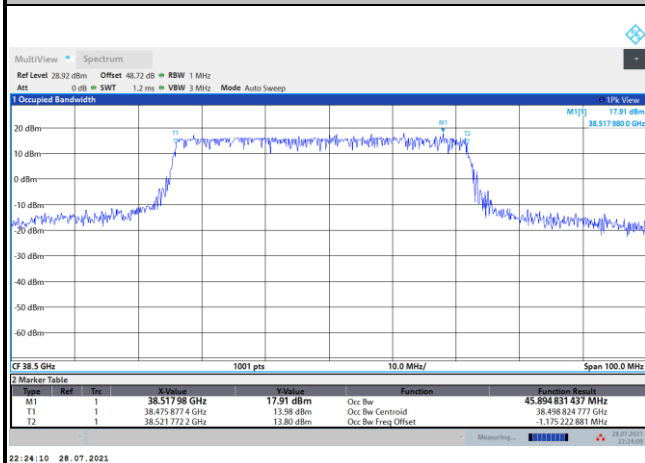
Lowest Channel / 50MHz / QPSK



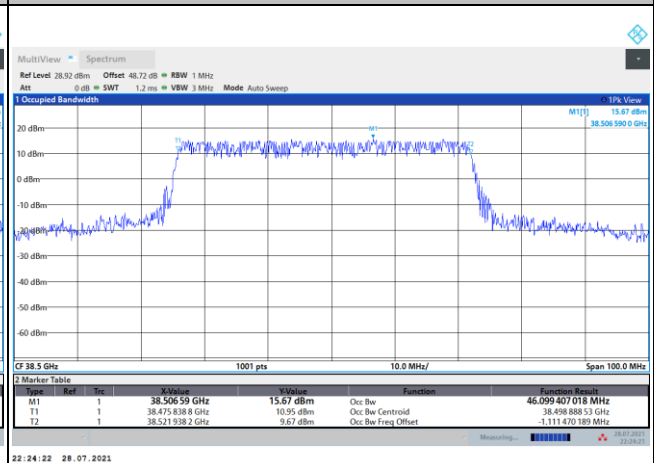
Lowest Channel / 50MHz / 16QAM



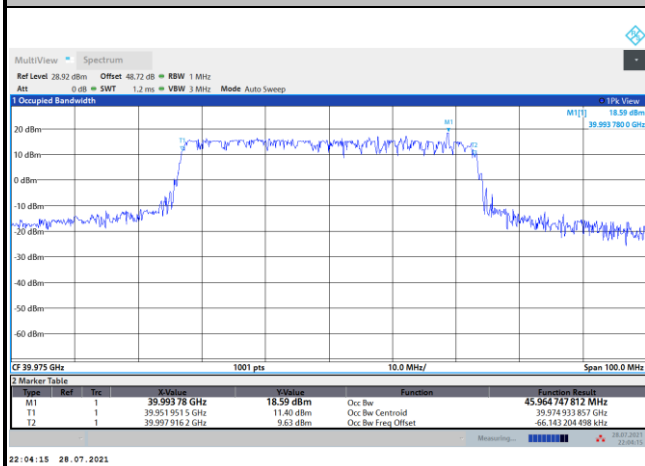
Middle Channel / 50MHz / QPSK



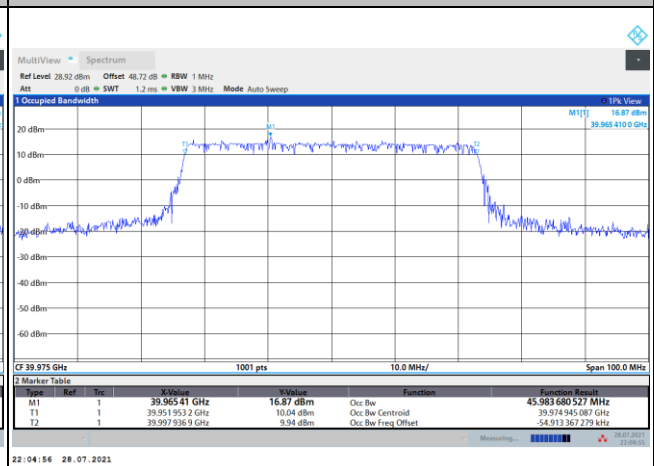
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

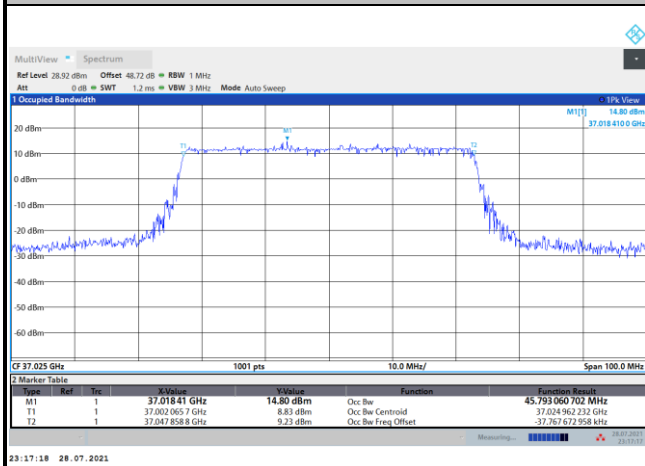




DFT-s-OFDM Module B

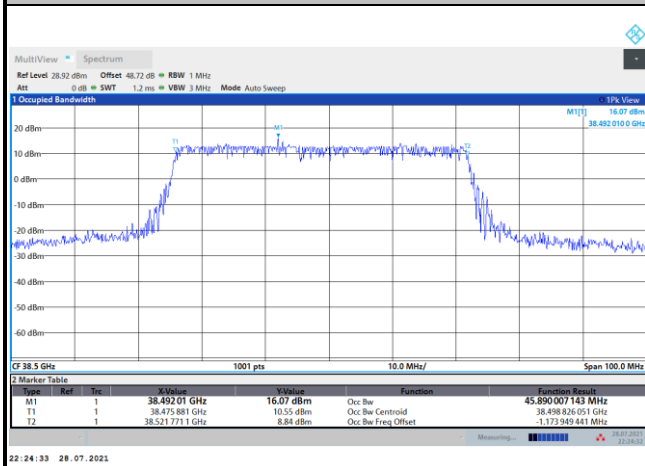
NR Band n260

Lowest Channel / 50MHz / 64QAM



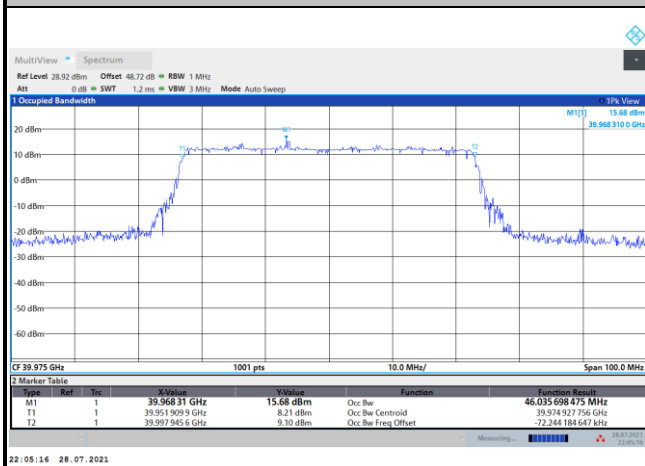
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Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



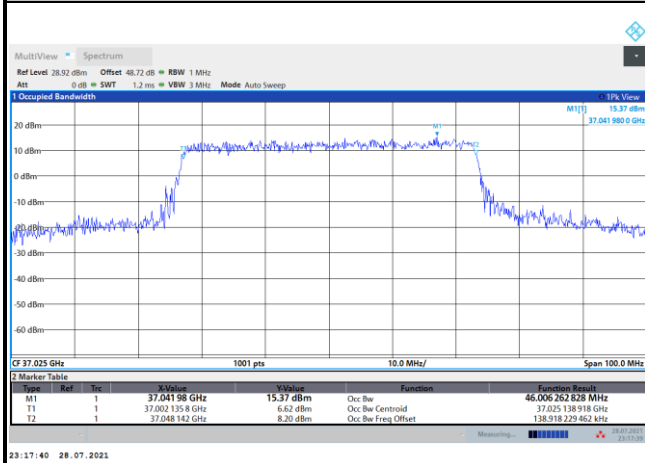
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CP-OFDM Module B

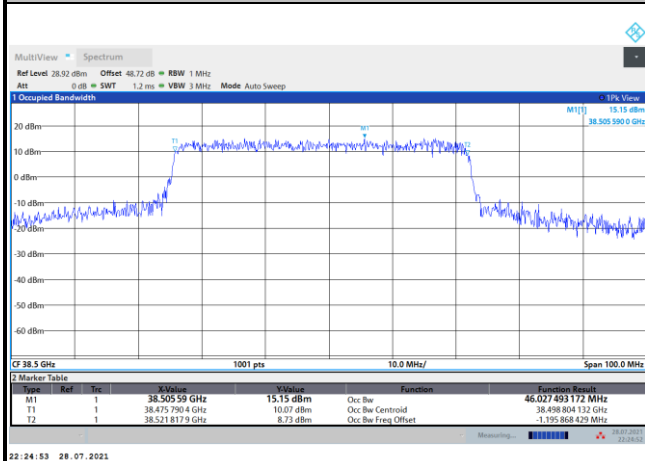
NR Band n260

Lowest Channel / 50MHz / QPSK



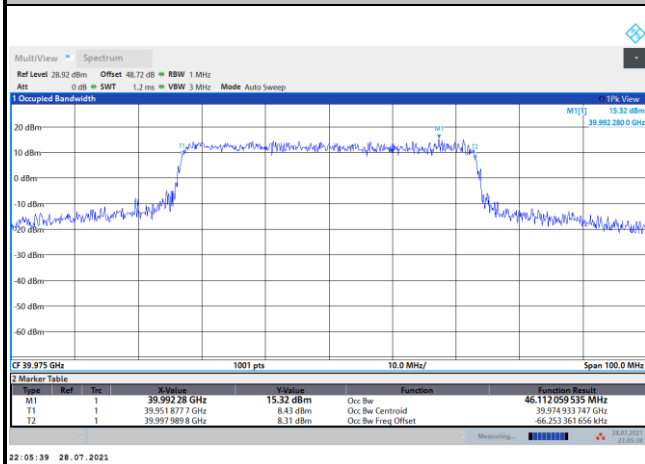
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Middle Channel / 50MHz / QPSK



intentionally blank

Highest Channel / 50MHz / QPSK



intentionally blank

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module B NR Band n260 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-7.75	-9.31	-11.83
	>10%OB	≤ -13	-18.43	-20.22	-22.60
HighCH	0~10%OB	≤ -5	-5.51	-7.50	-10.21
	>10%OB	≤ -13	-18.33	-26.78	-28.67
Result			Compliance		

Mode			CP-OFDM Module B NR Band n260 : BE (dBm) 1 RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-10.09		
	>10%OB	≤ -13	-20.47		
High CH	0~10%OB	≤ -5	-7.90		
	>10%OB	≤ -13	-26.76		
Result			Compliance		

Mode			DFT-s-OFDM Module B NR Band n260 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-13.96	-17.29	-21.16
	>10%OB	≤ -13	-16.73	-20.21	-27.66
HighCH	0~10%OB	≤ -5	-27.93	-11.23	-18.28
	>10%OB	≤ -13	-26.25	-14.26	-21.16
Result			Compliance		

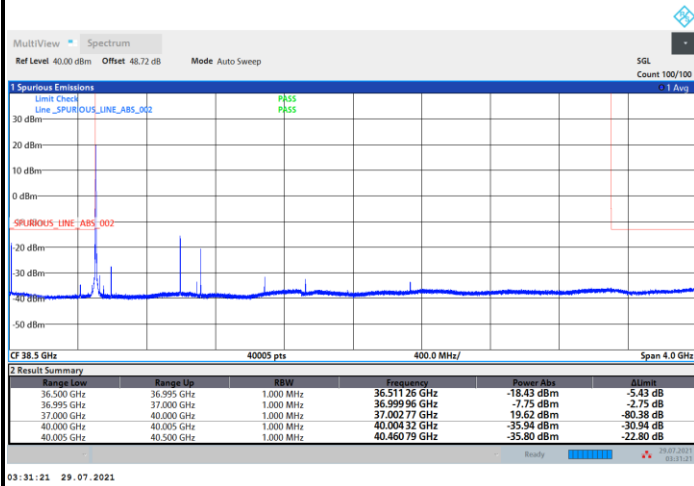
Mode			CP-OFDM Module B NR Band n260 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-16.38		
	>10%OB	≤ -13	-19.19		
High CH	0~10%OB	≤ -5	-10.71		
	>10%OB	≤ -13	-14.08		
Result			Compliance		



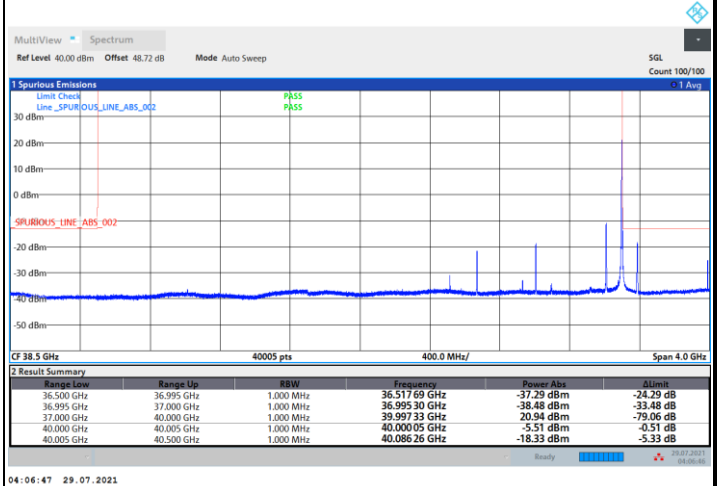
DFT-s-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB

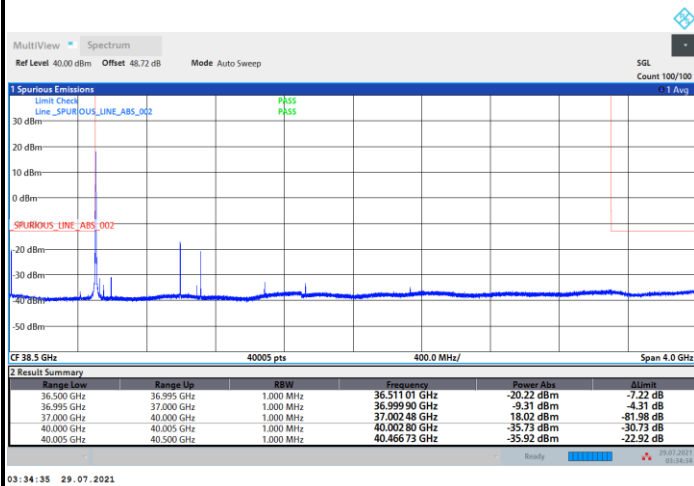


Highest Band Edge / 1 RB

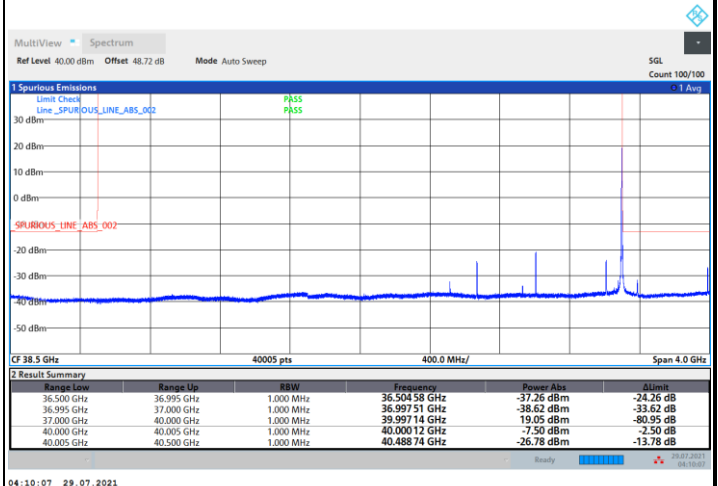


NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

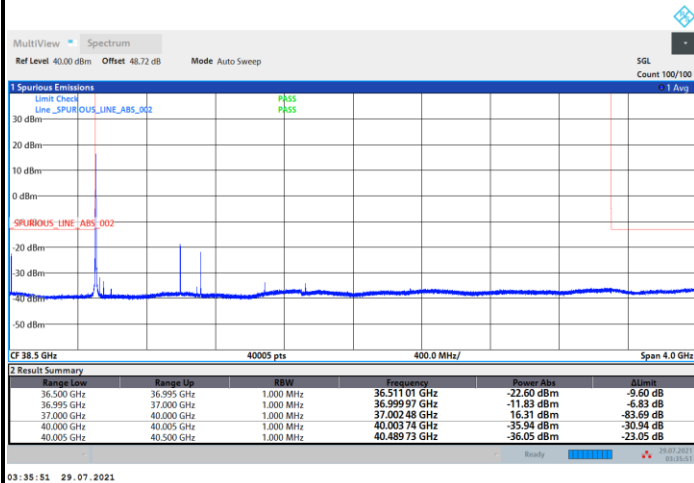




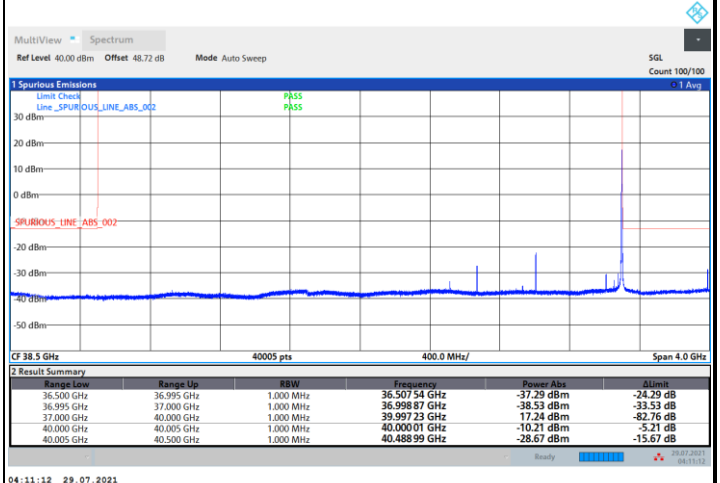
DFT-s-OFDM Module B

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / 1 RB



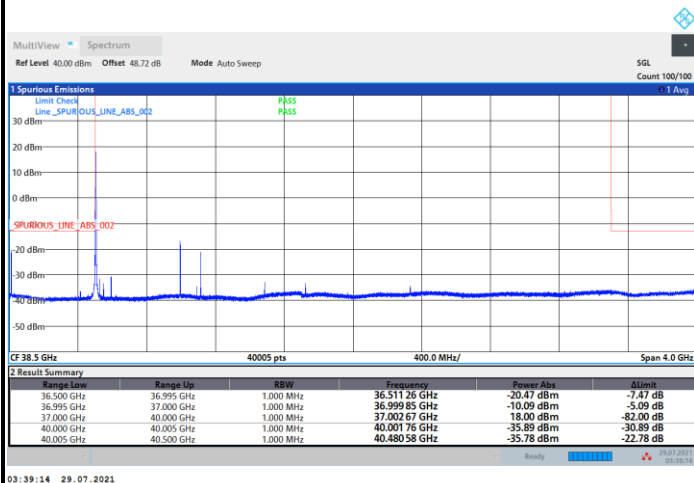
Highest Band Edge / 1 RB



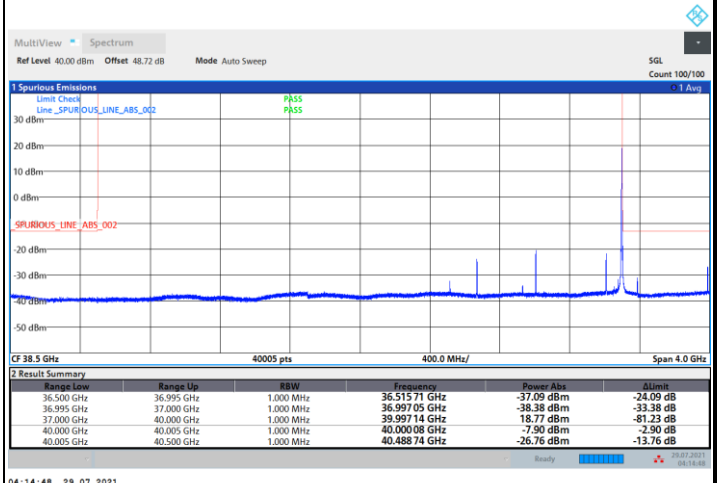
CP-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

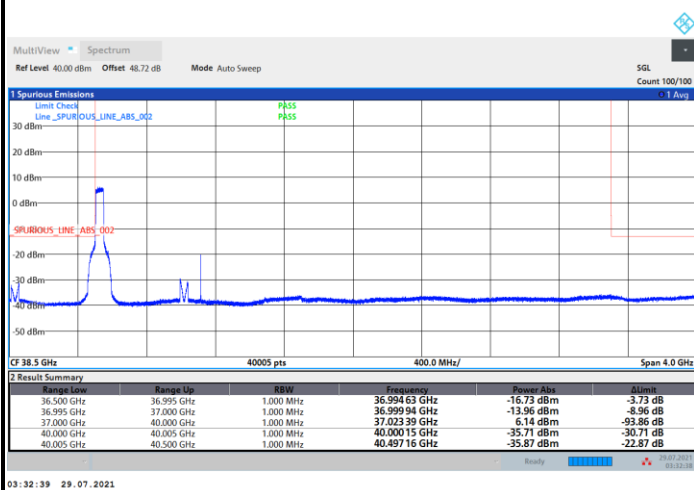




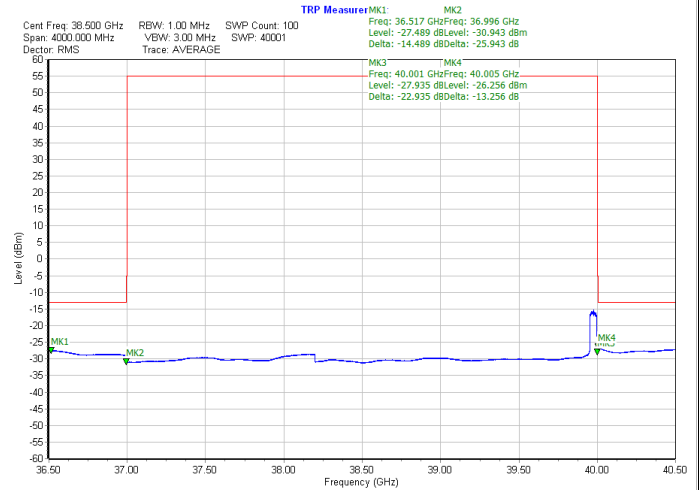
DFT-s-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

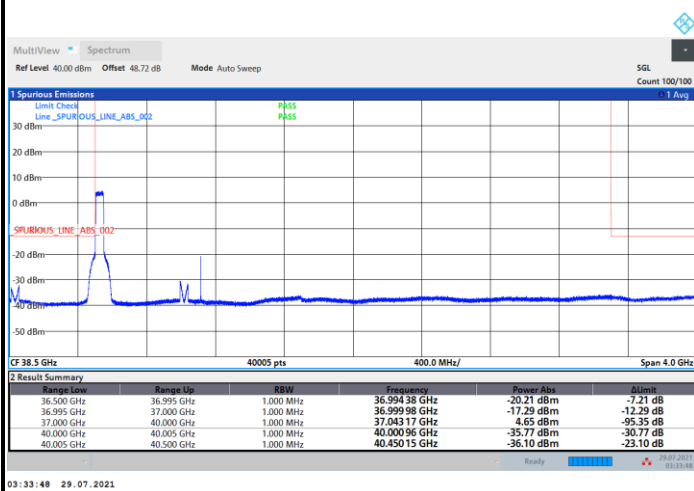


Highest Band Edge / Full RB

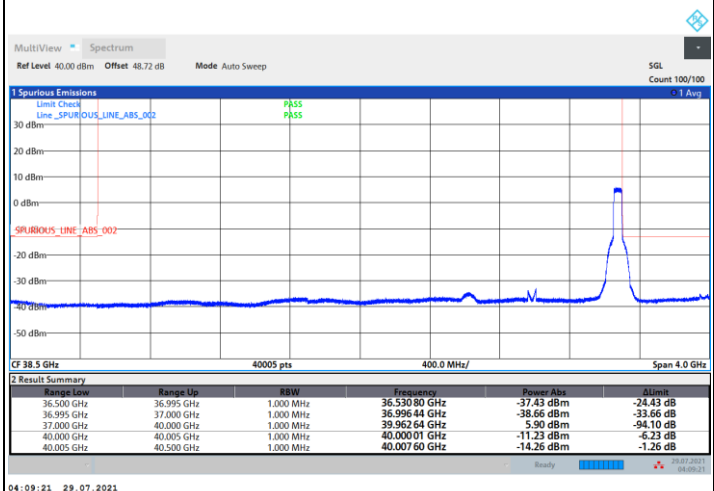


NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

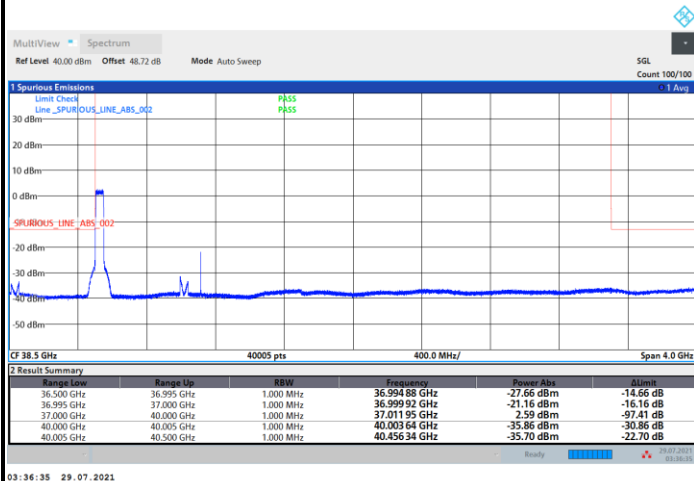




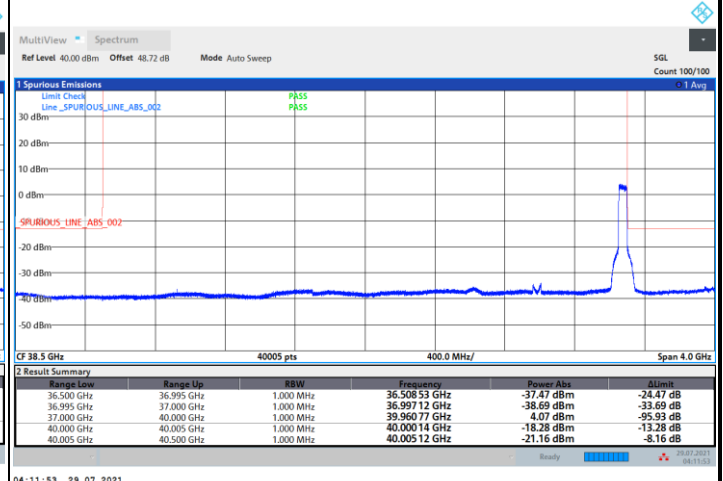
DFT-s-OFDM Module B

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB



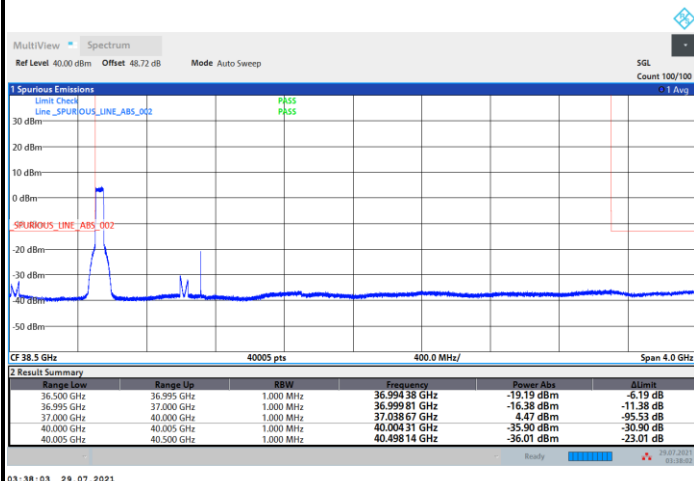
Highest Band Edge / Full RB



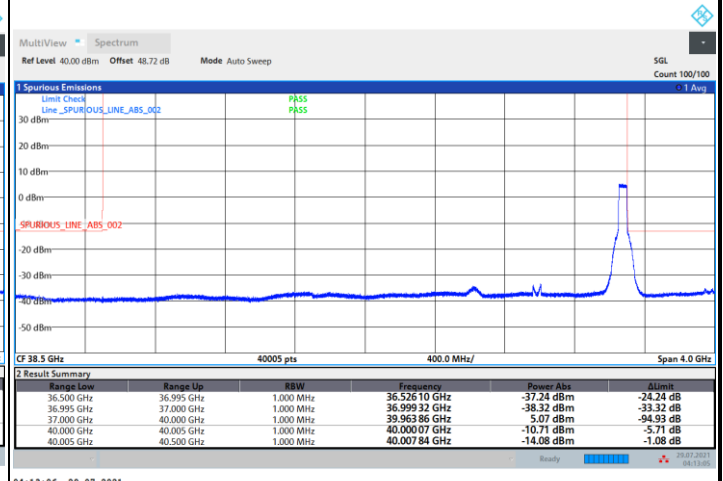
CP-OFDM Module B

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



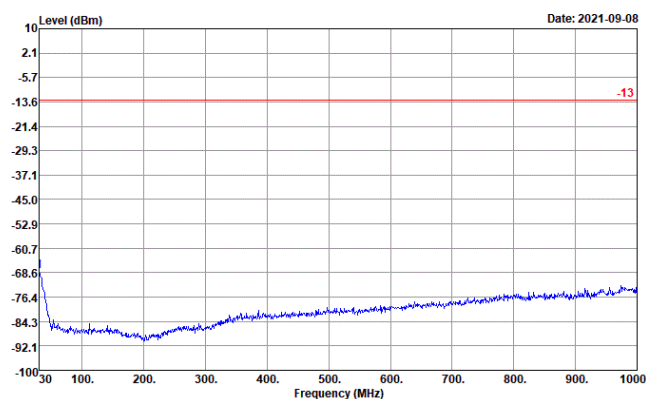


Spurious Emission

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

NR Band n260 (30MHz-1GHz)

Horizontal

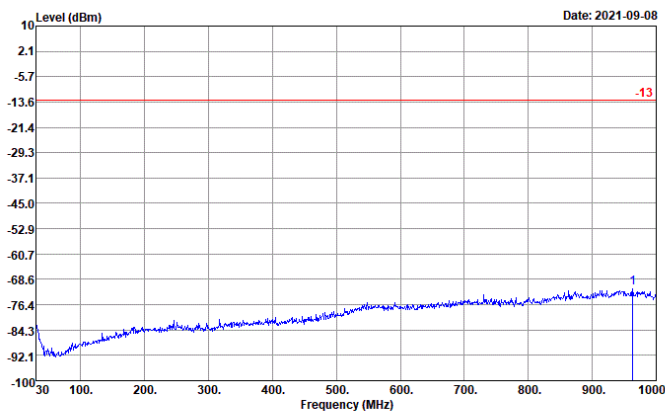


Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 HORIZONTAL

: n260

TABLE 1											
	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	-68.22	-55.22	-13.00	-79.93	47.44	0.00	35.73	---	---	Peak

Vertical



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

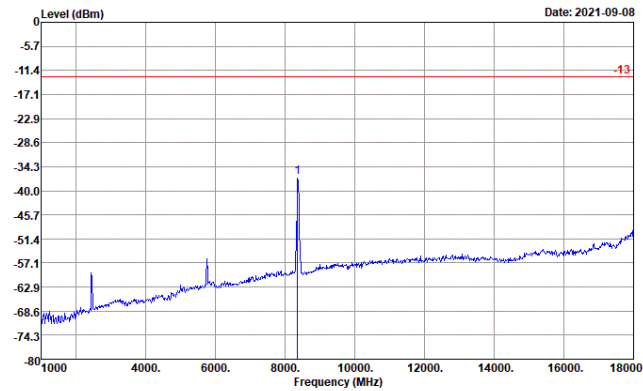
: n260

TABLE 1											
	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	963.14	-71.21	-58.21	-13.00	-80.85	42.75	0.00	33.11	---	---	Peak



NR Band n260 (1GHz-18GHz)

Horizontal

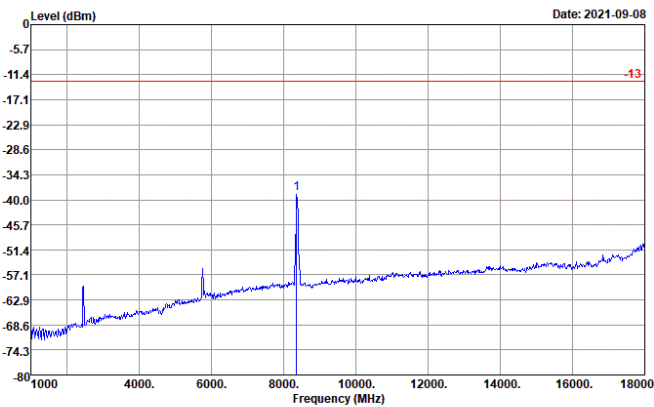


Site : 03CH19-HY
Condition : -13 ERP EIRP_20210305 HORIZONTAL

: n260

	Freq	Level	Over	Limit	Read	LISN	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor			
		dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1	8361.00	-36.88	-23.88	-13.00	-61.38	64.75	0.00	40.25	---	---	Peak

Vertical



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

: n260

	Freq	Level	Over	Limit	Read	LISN	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor			
		dBm	dB	dBm	dBm	dB	dB	dB	cm	deg	
1	8361.00	-38.58	-25.58	-13.00	-63.54	65.21	0.00	40.25	---	---	Peak



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

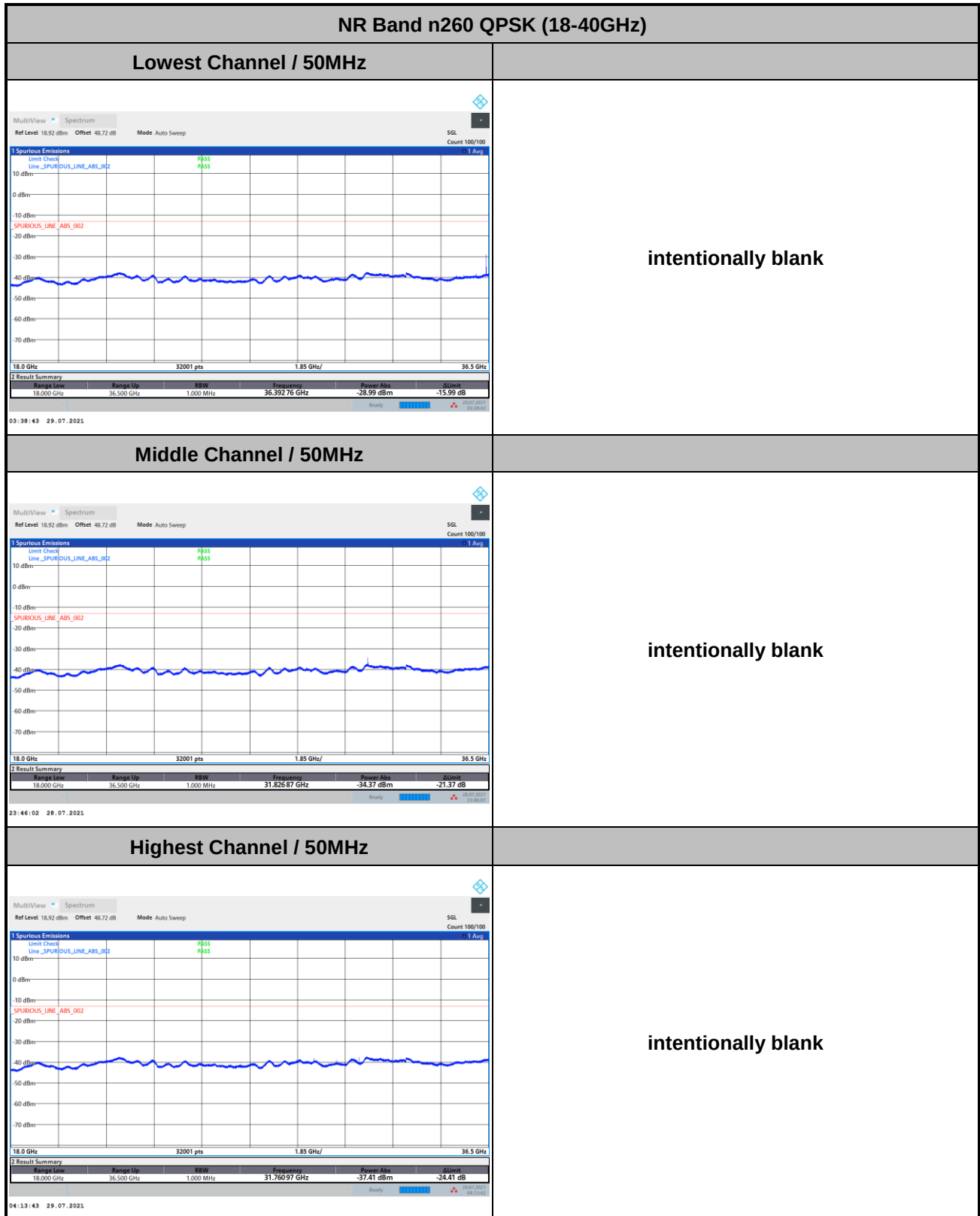
DFT-s-OFDM Module B



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



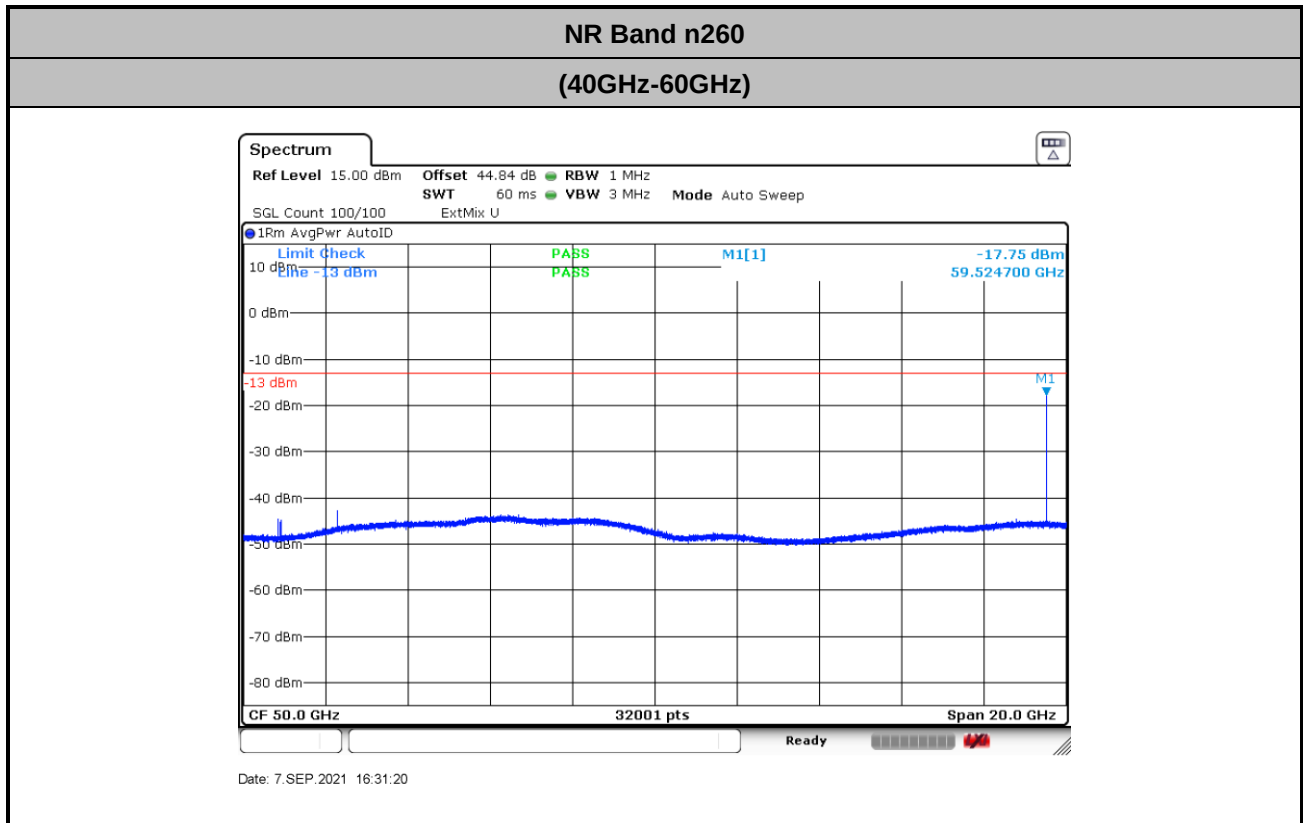
CP-OFDM Module B



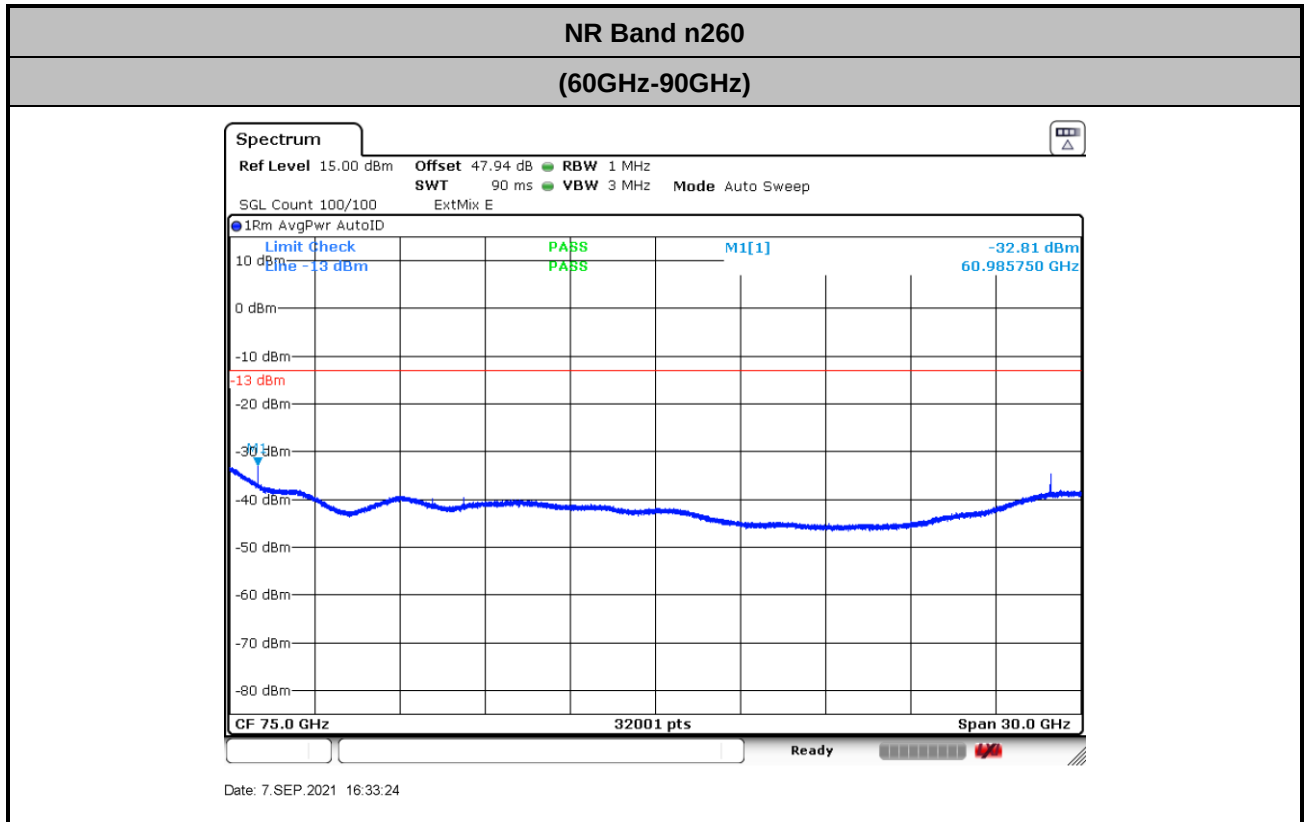
Remark: In band and out of band frequencies that has reported in previous results are omitted.



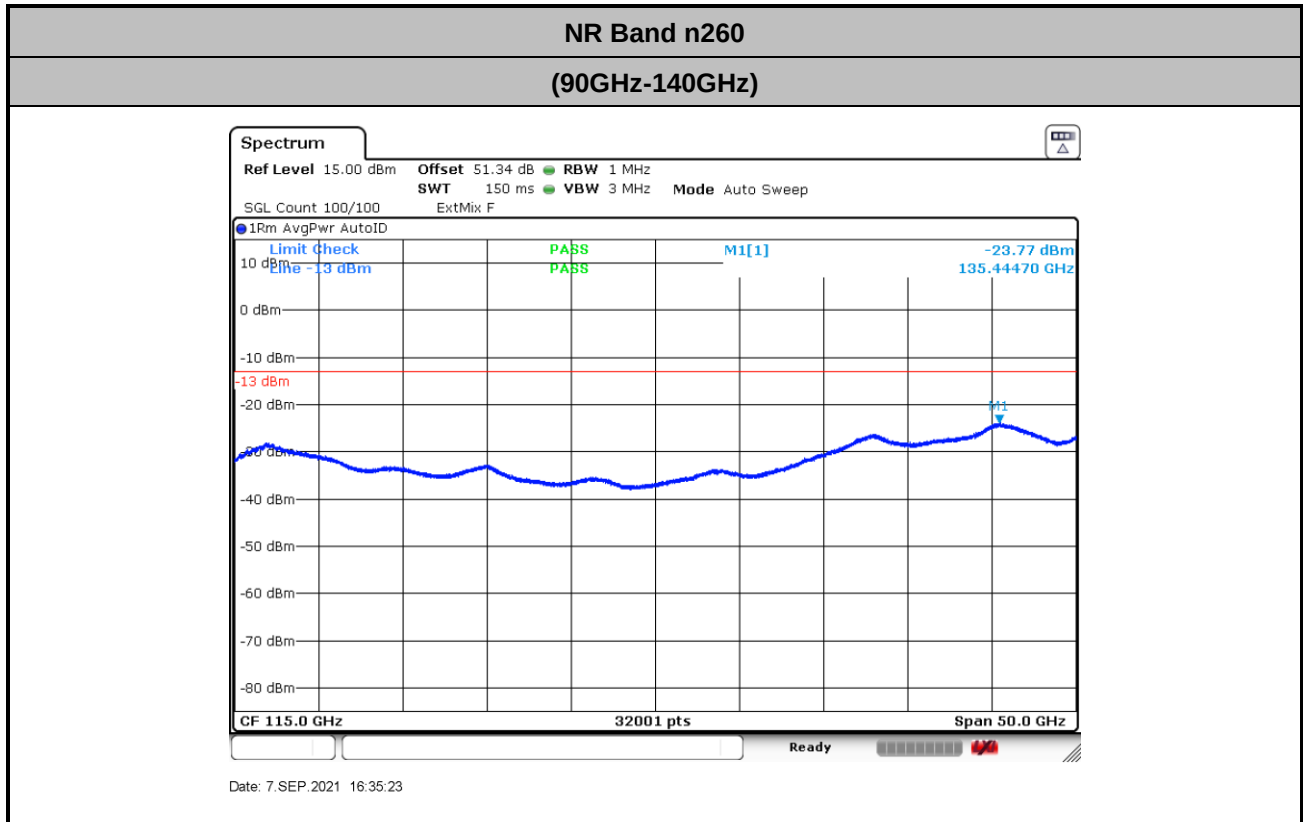
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.



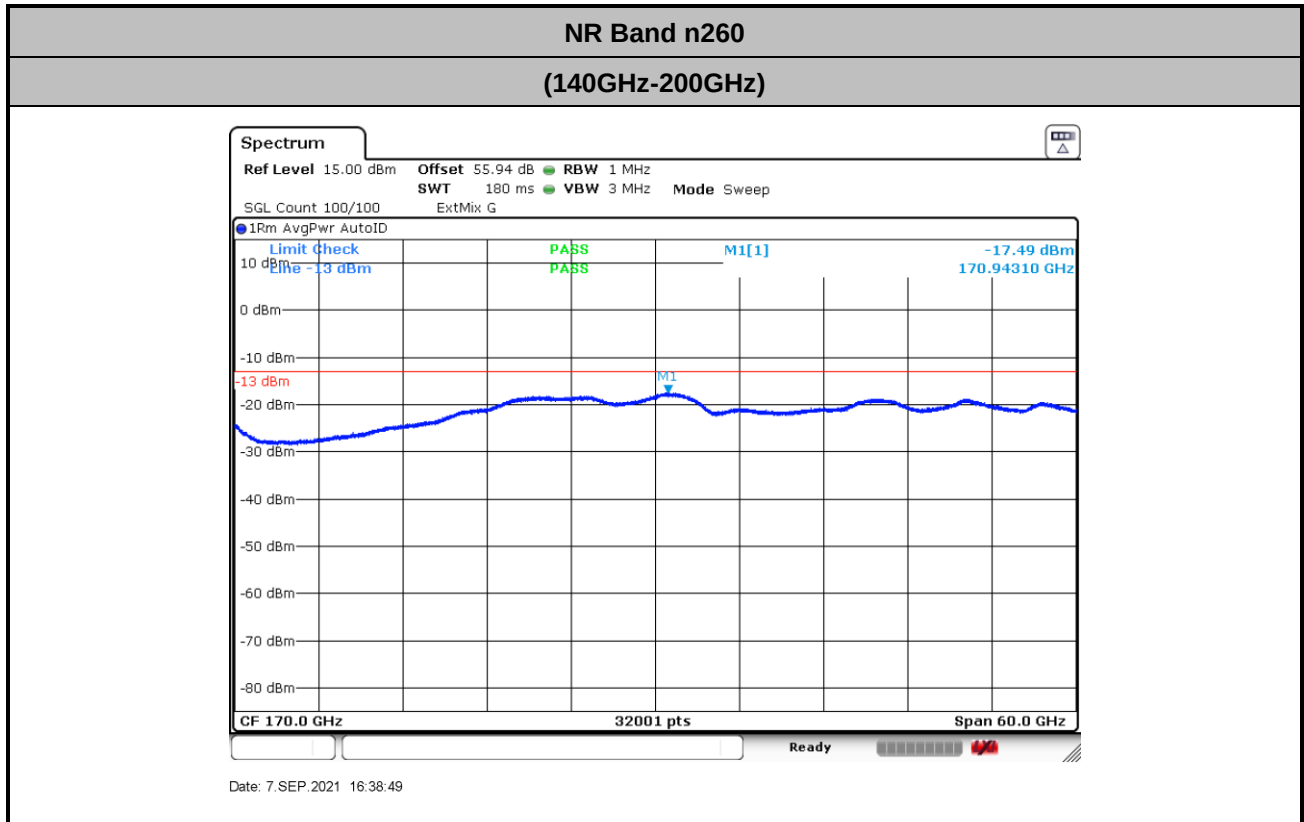
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 0.34 + 107 + 20\log(1) - 104.8 = 44.84 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 0.34 + 107 + 20\log(1) - 104.8 = 47.94 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 48.8 + 0.34 + 107 + 20\log(1) - 104.8 = 51.34 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 53.4 + 0.34 + 107 + 20\log(1) - 104.8 = 55.94 \text{ (dB)} \end{aligned}$$

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	38.501051	-2.500	0.065	Pass
40	Normal Voltage	38.5010505	-2.000	0.052	
30	Normal Voltage	38.5010505	-2.000	0.052	
20(Ref.)	Normal Voltage	38.5010485	0.000	0.000	
10	Normal Voltage	38.501051	-2.500	0.065	
0	Normal Voltage	38.501051	-2.500	0.065	
-10	Normal Voltage	38.501051	-2.500	0.065	
-20	Normal Voltage	38.501051	-2.500	0.065	
-30	Normal Voltage	38.5010505	-2.000	0.052	
20	Maximum Voltage	38.5010505	-2.000	0.052	
20	Normal Voltage	38.501047	1.500	0.039	
20	Battery End Point	38.50105	-1.500	0.039	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



NR Band n261 Module A Beam H

Occupied Bandwidth

Mode	DFT-s-OFDM Module A NR Band n261 : 99%OBW(MHz)		
BW	50MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	46.00	46.45	46.09
Middle CH	46.03	46.46	46.28
Highest CH	46.41	46.46	46.21

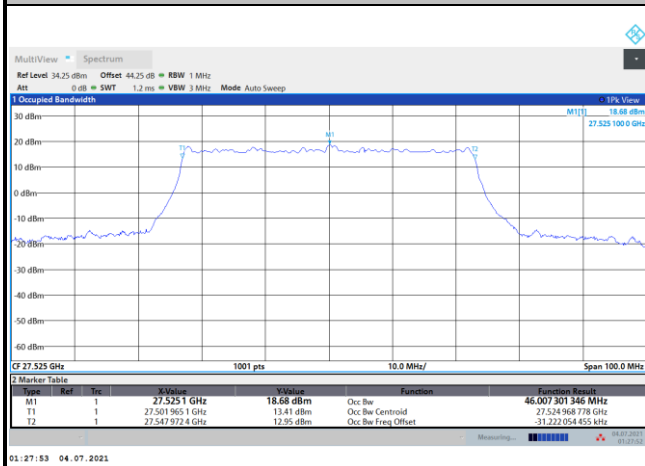
Mode	CP-OFDM Module A NR Band n261 : 99%OBW(MHz)	
BW	50MHz	
Mod.	QPSK	
Lowest CH	45.96	
Middle CH	46.80	
Highest CH	46.44	



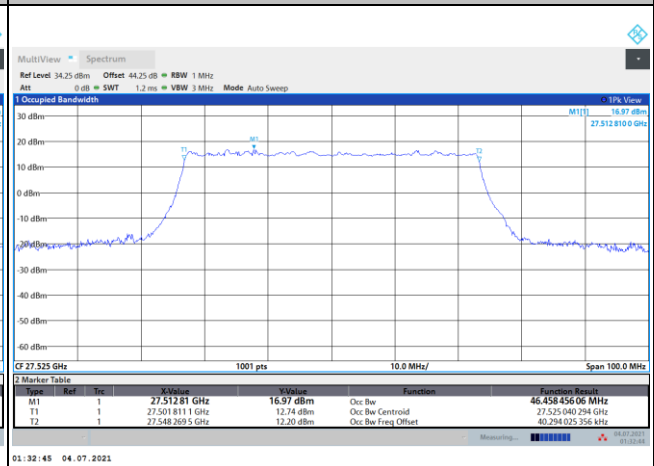
DFT-s-OFDM Module A

NR Band n261

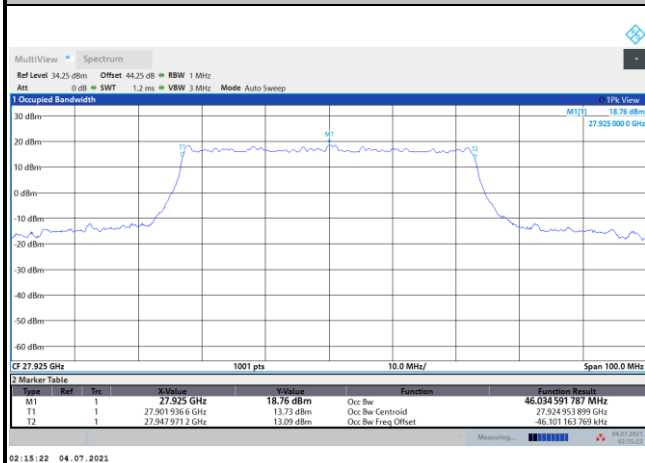
Lowest Channel / 50MHz / QPSK



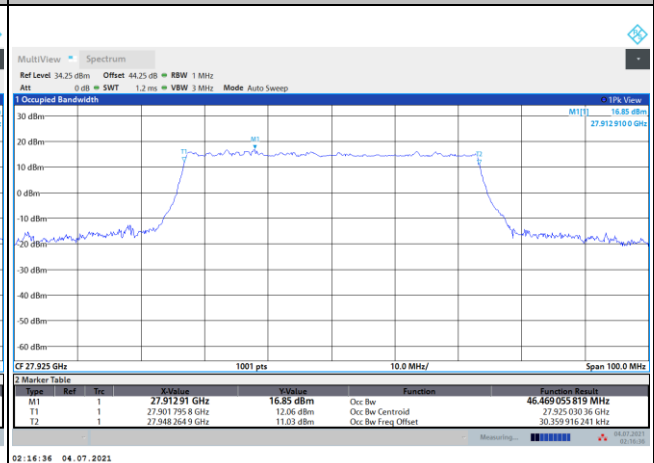
Lowest Channel / 50MHz / 16QAM



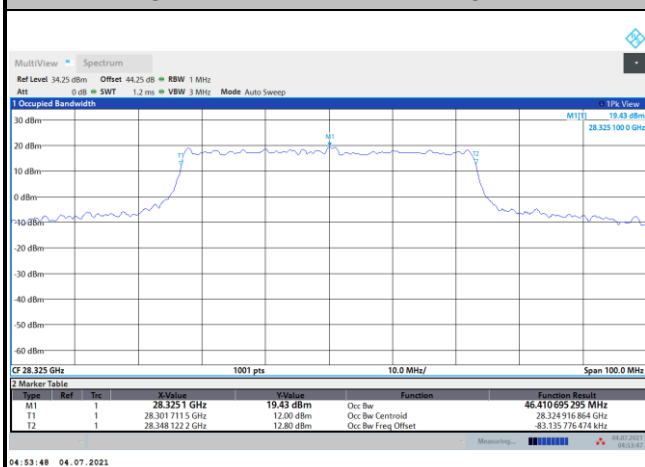
Middle Channel / 50MHz / QPSK



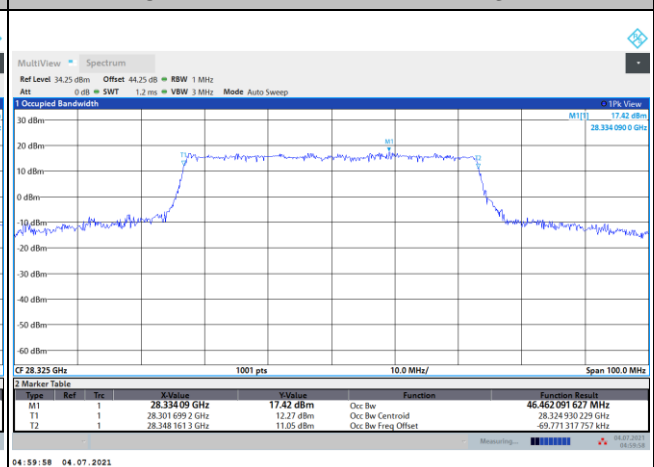
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

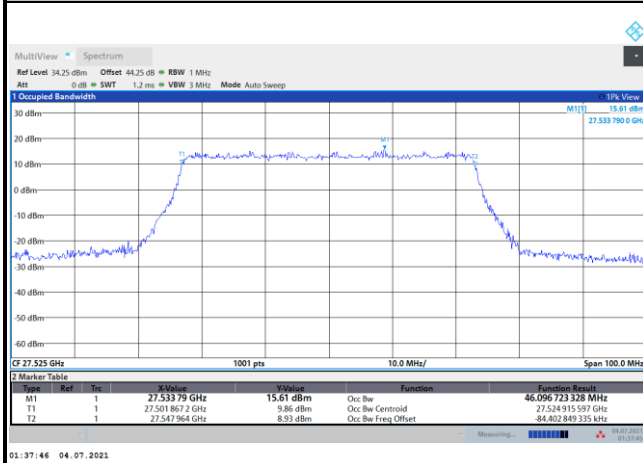




DFT-s-OFDM Module A

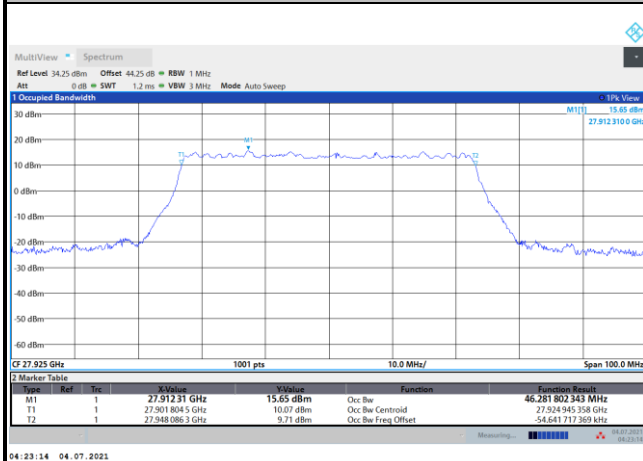
NR Band n261

Lowest Channel / 50MHz / 64QAM



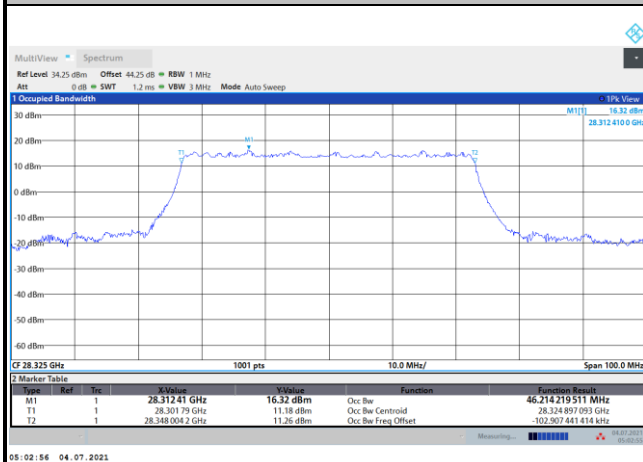
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Middle Channel / 50MHz / 64QAM



intentionally blank

Highest Channel / 50MHz / 64QAM



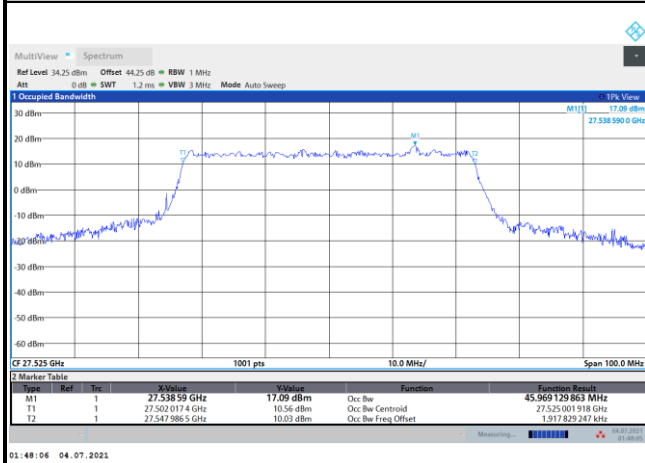
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CP-OFDM Module A

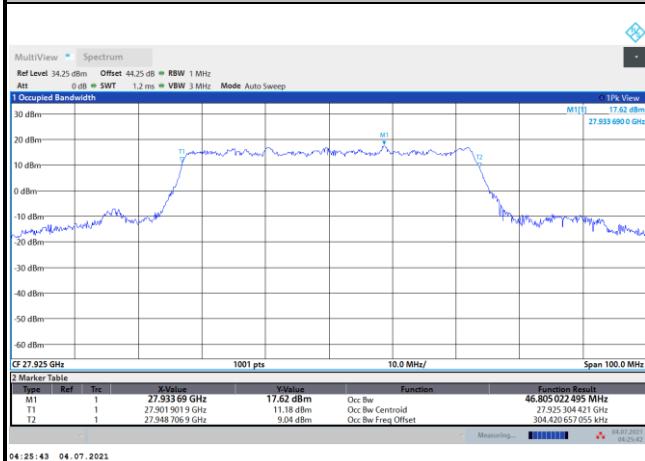
NR Band n261

Lowest Channel / 50MHz / QPSK



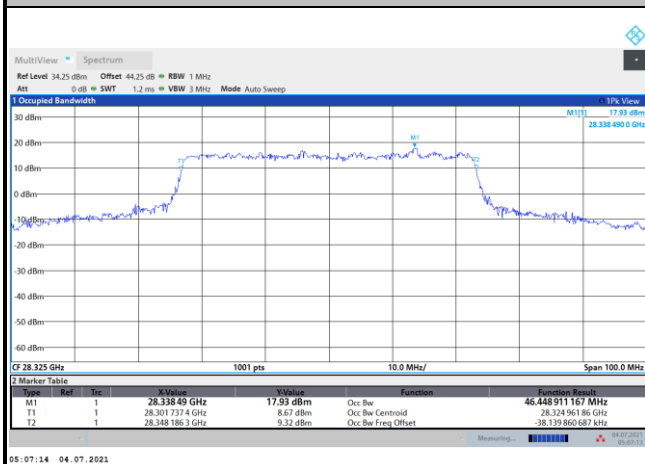
intentionally blank

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	-20.98	-6.28	-8.78
	>10%OB	≤ -13	-25.73	-16.87	-19.17
HighCH	0~10%OB	≤ -5	-22.49	-5.99	-7.39
	>10%OB	≤ -13	-27.82	-17.24	-19.09
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	-7.68		
	>10%OB	≤ -13	-18.46		
High CH	0~10%OB	≤ -5	-6.15		
	>10%OB	≤ -13	-17.40		
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	-17.24	-17.79	-18.49
	>10%OB	≤ -13	-25.42	-27.88	-31.49
HighCH	0~10%OB	≤ -5	-11.56	-13.48	-17.97
	>10%OB	≤ -13	-15.23	-18.46	-27.44
Result			Compliance		

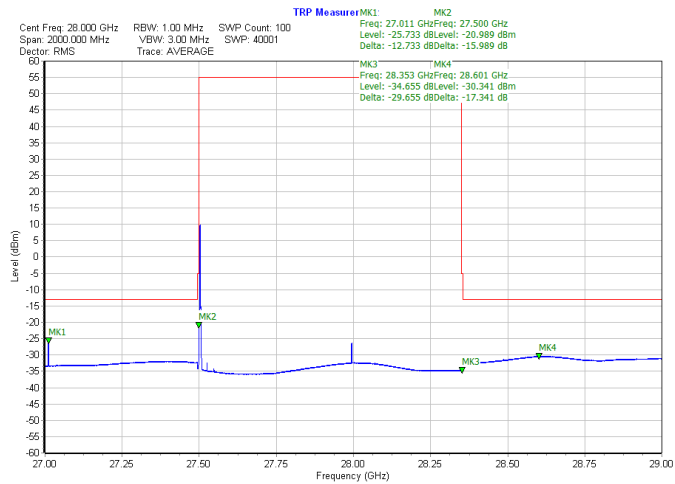
Mode			CP-OFDM Module A NR Band n261 : BE (dBm) Full RB		
BW			50MHz		
Limit (dBm)			QPSK		
Low CH	0~10%OB	≤ -5	-18.10		
	>10%OB	≤ -13	-24.44		
High CH	0~10%OB	≤ -5	-13.31		
	>10%OB	≤ -13	-16.70		
Result			Compliance		



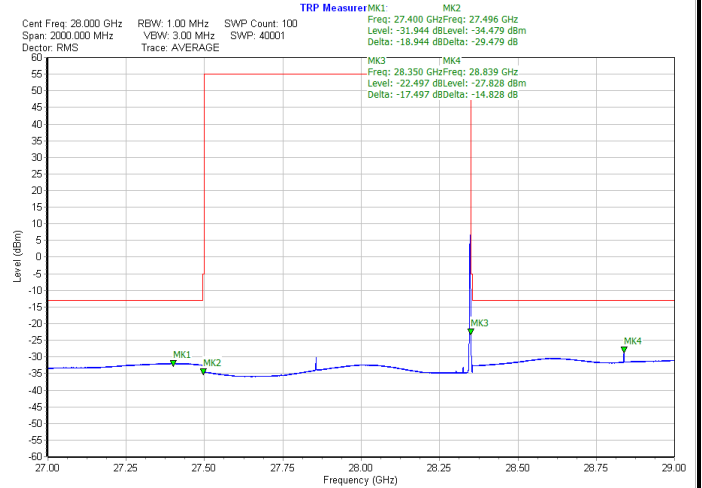
DFT-s-OFDM Module A

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

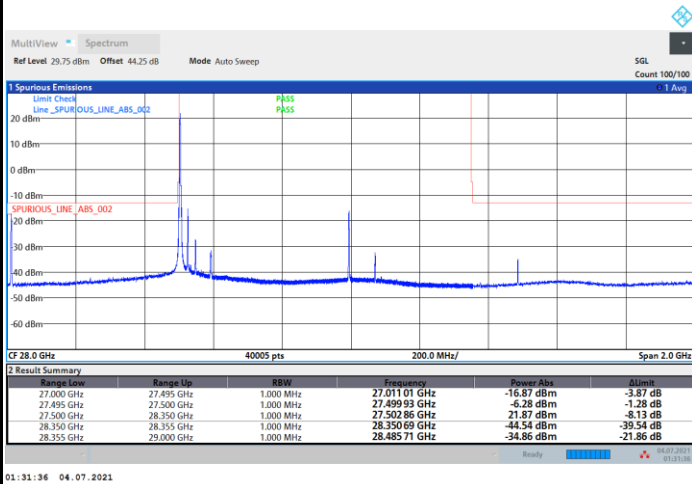


Highest Band Edge / 1 RB

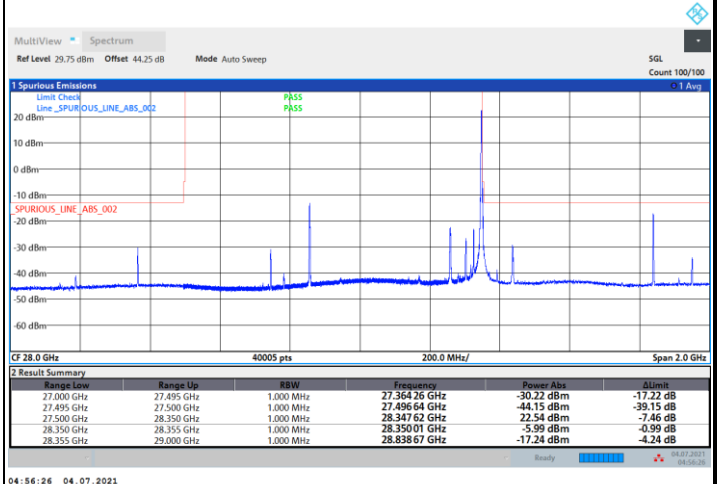


NR Band n261 / 50MHz / 16QAM

Lowest Band Edge / 1 RB

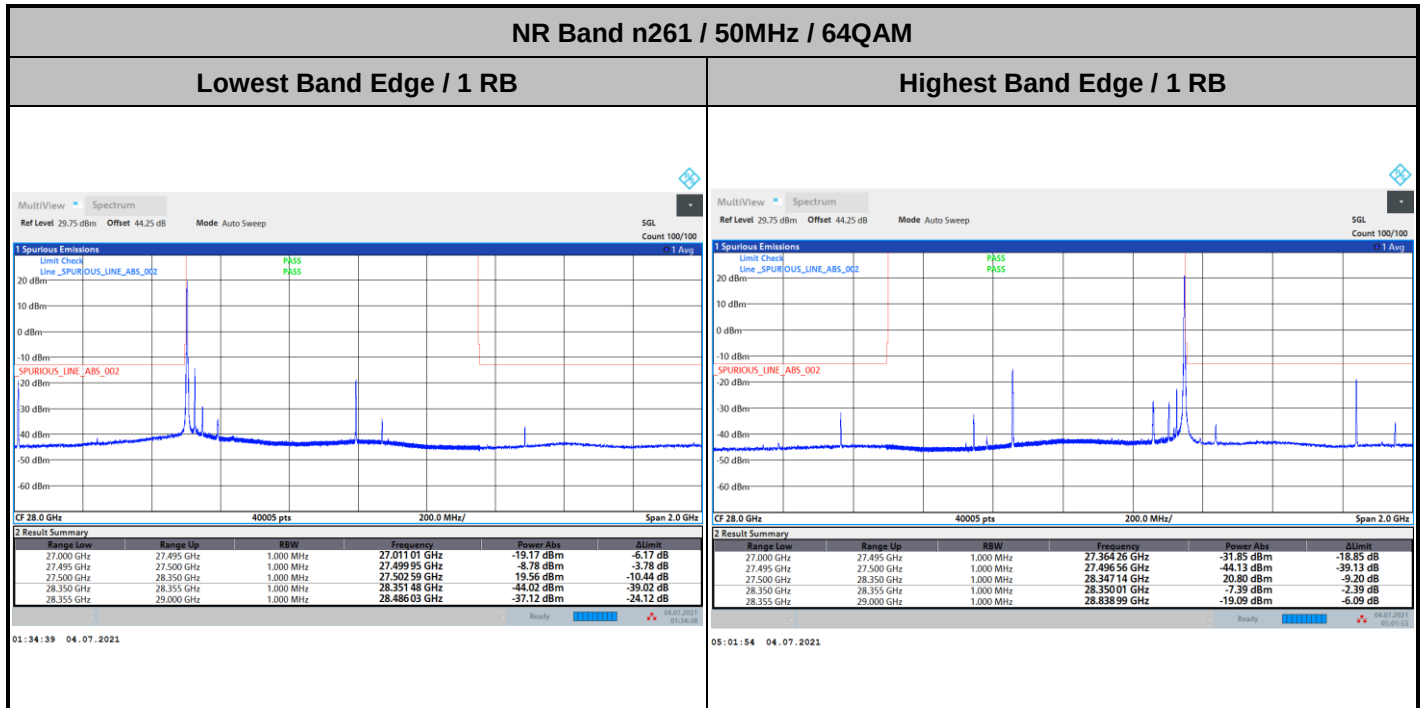


Highest Band Edge / 1 RB





DFT-s-OFDM Module A



CP-OFDM Module A

