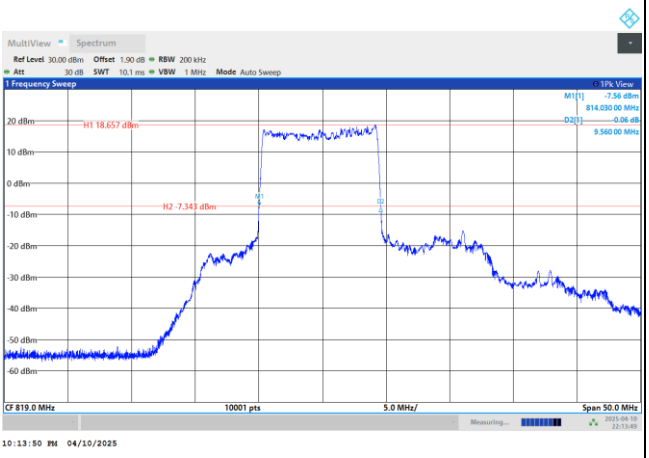
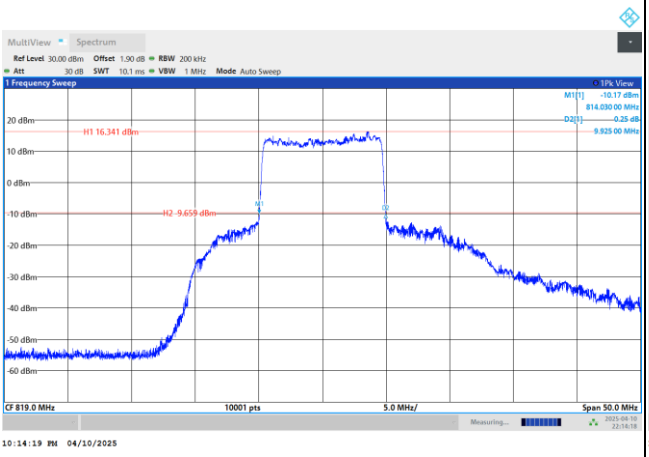
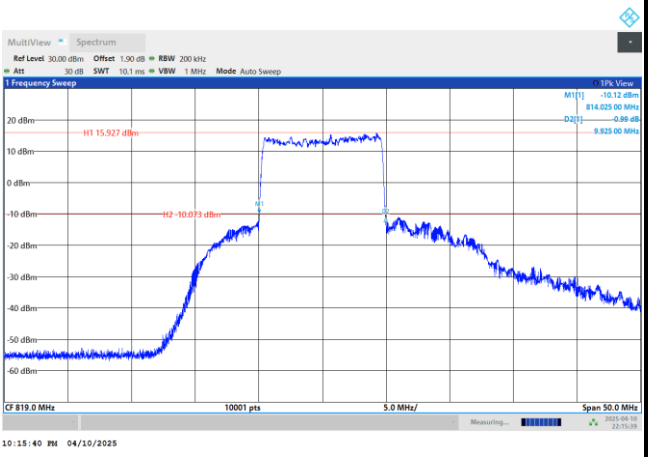
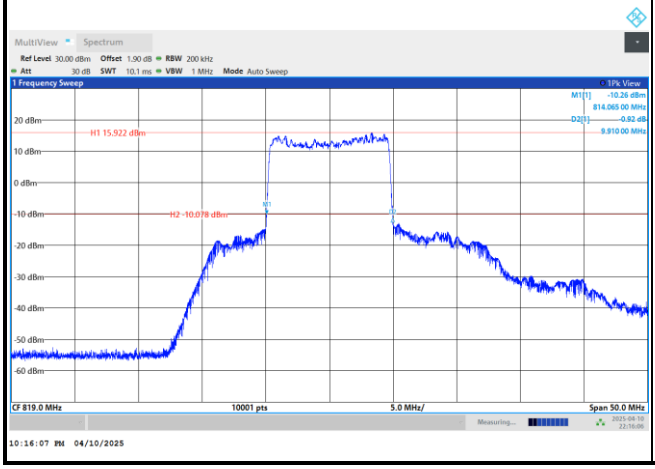
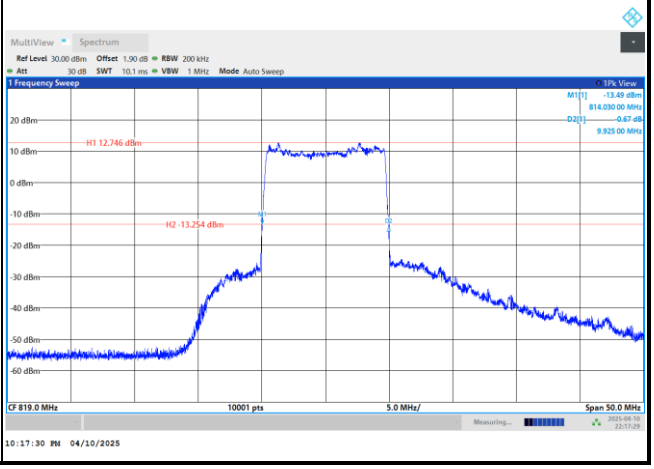
FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

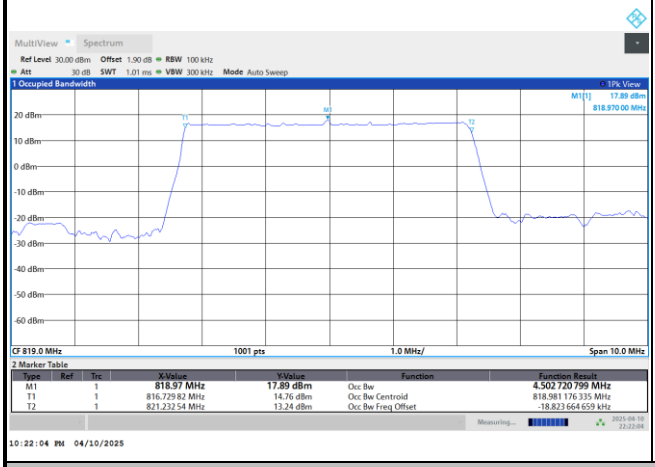
Occupied Bandwidth

Mode	FR1 n26 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.50		9.04					

Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.50	4.50	9.35	9.37				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.51	4.49	9.36	9.34				

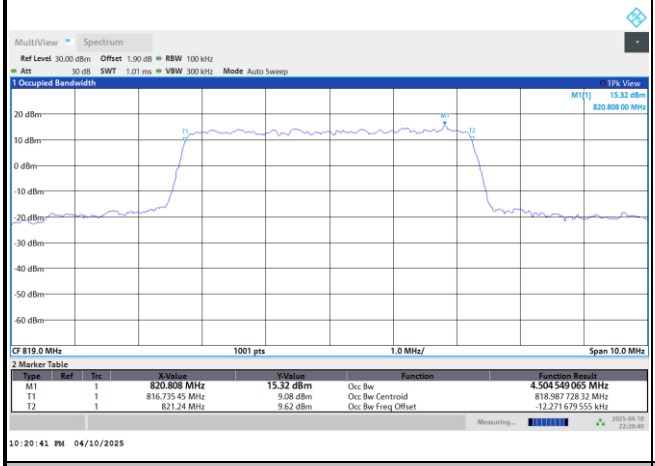
FR1 n26 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

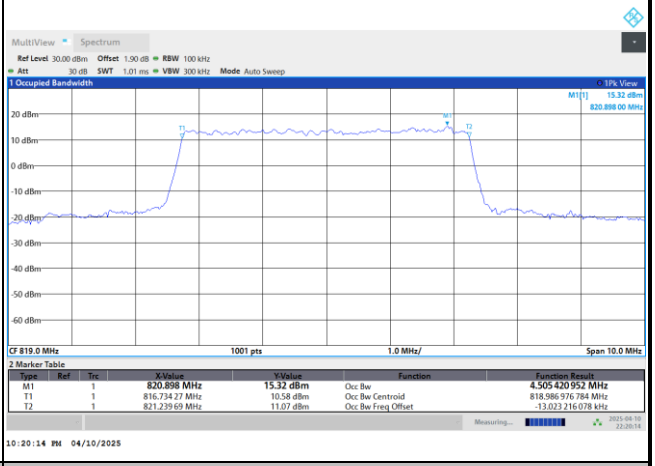


FR1 n26 / 5MHz / CP OFDM / Middle Channel / Full RB

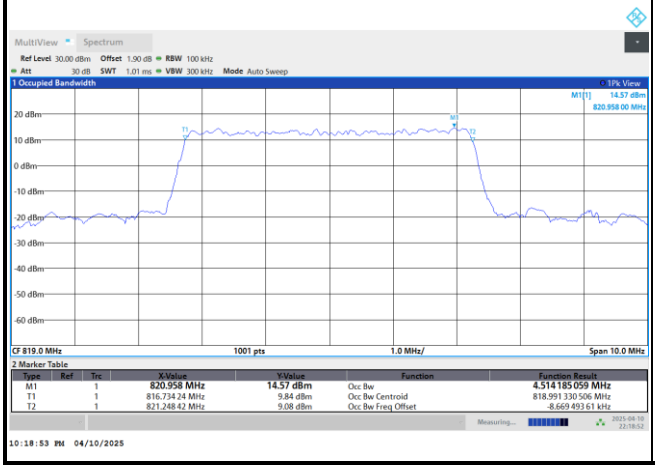
QPSK



16QAM



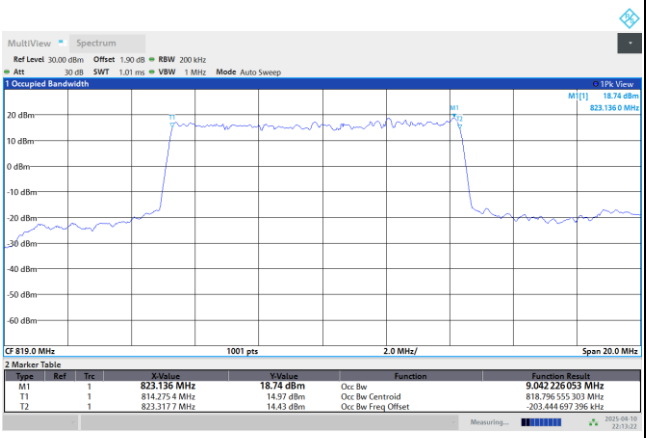
64QAM



256QAM

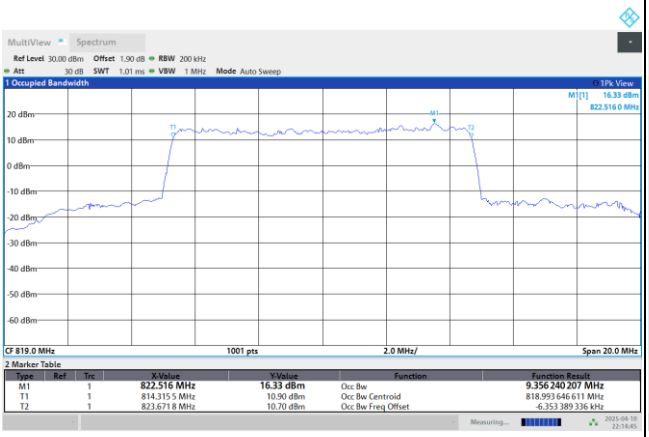
FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

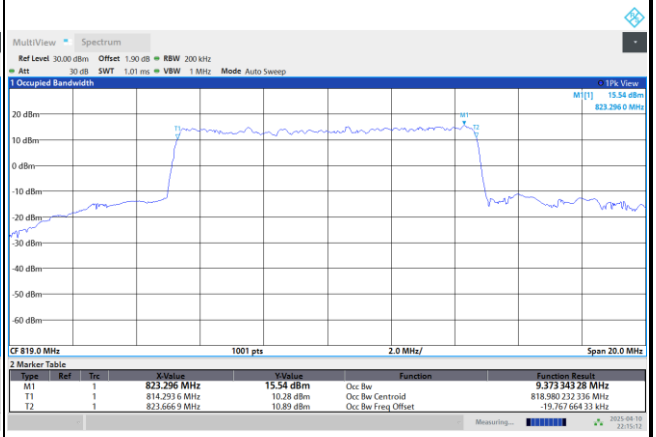


FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB

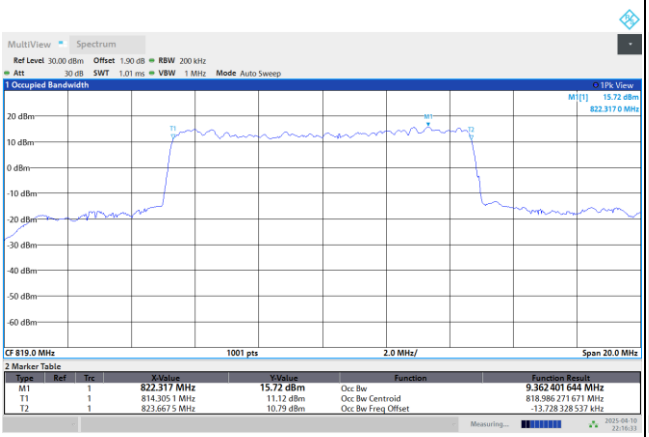
QPSK



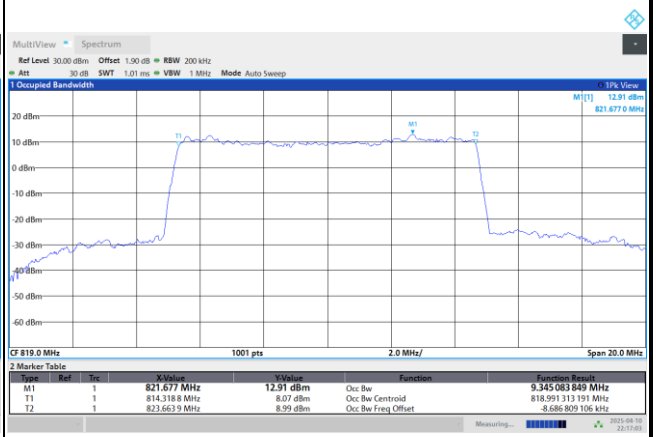
16QAM



64QAM



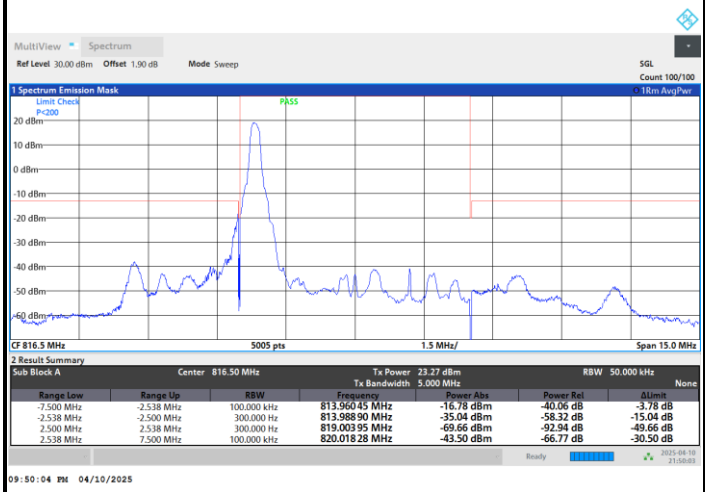
256QAM



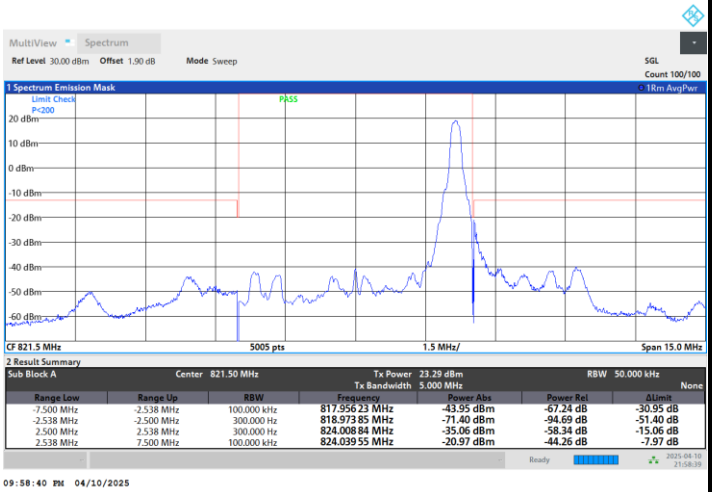
Emission masks – In-band emissions

FR1 n26 / 5MHz / DFT-S OFDM / PI/2 BPSK

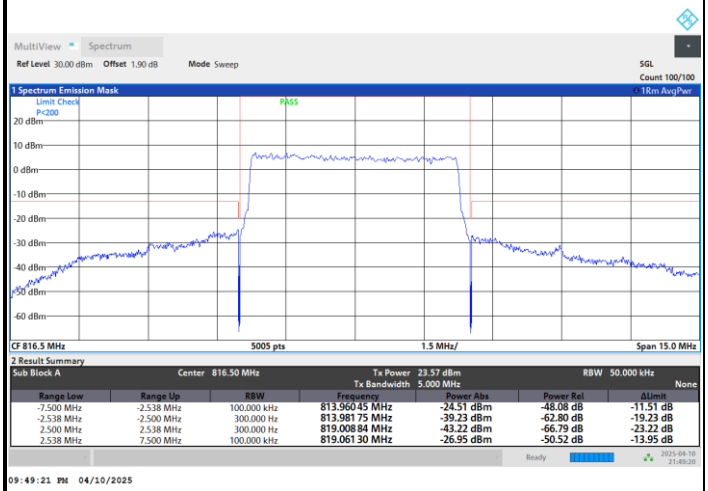
Lowest MASK / 1RB0



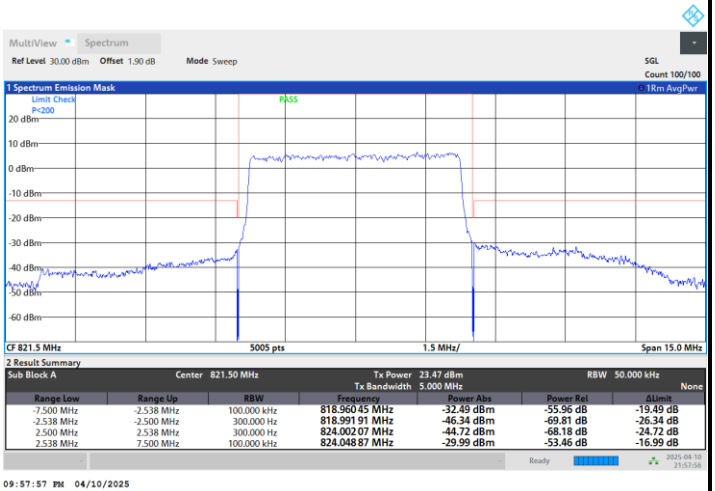
Highest MASK / 1RBmax



Lowest MASK / Full RB

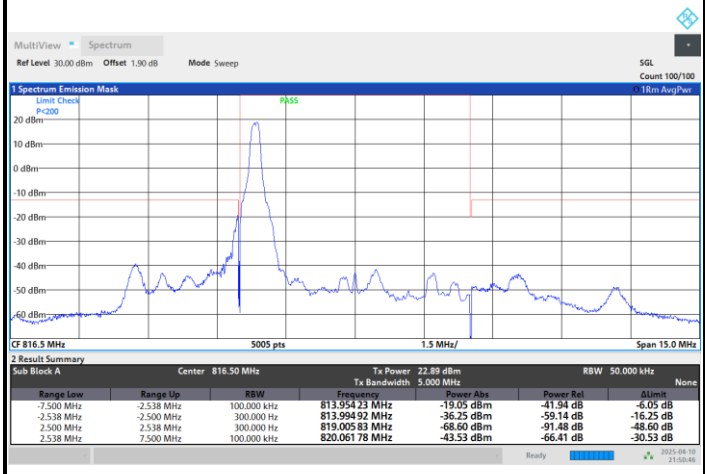


Highest MASK / Full RB

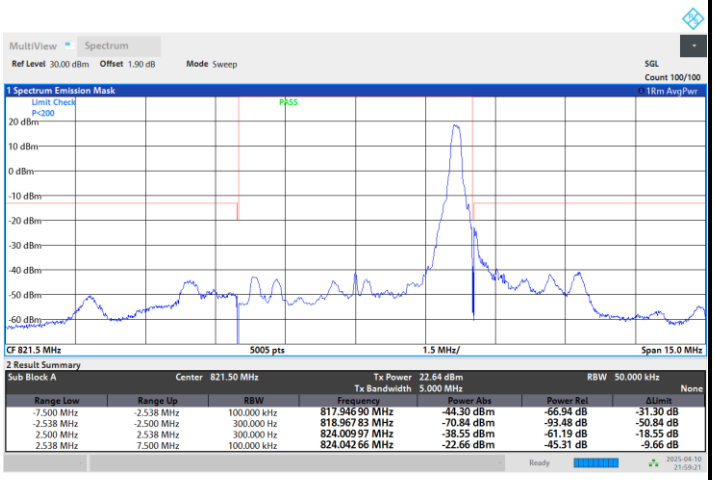


FR1 n26 / 5MHz / DFT-S OFDM / QPSK

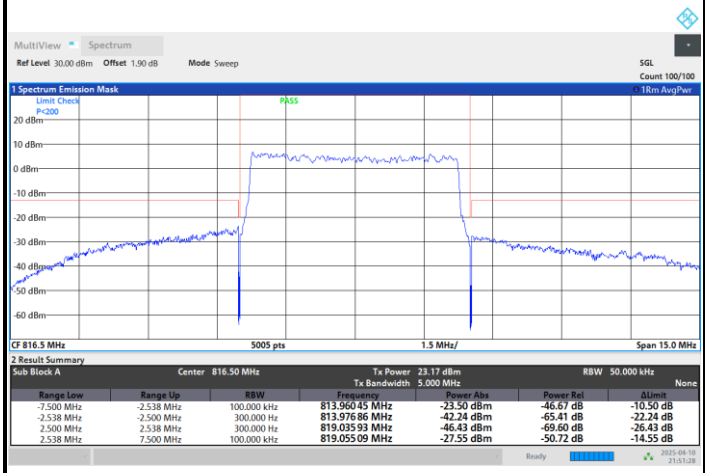
Lowest MASK / 1RB0



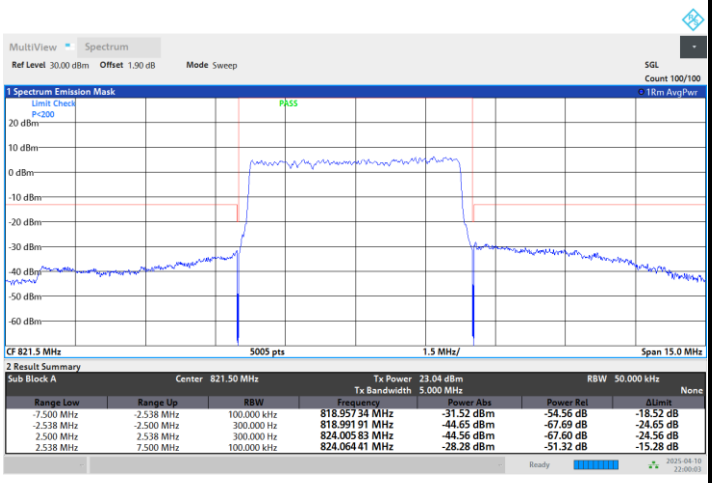
Highest MASK / 1RBmax



Lowest MASK / Full RB

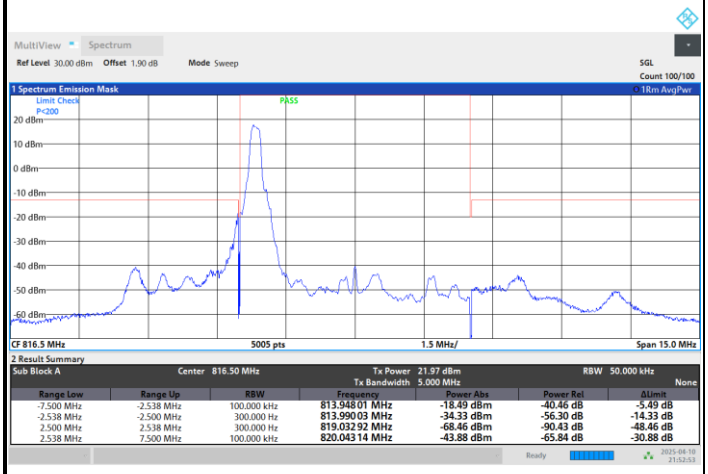


Highest MASK / Full RB



FR1 n26 / 5MHz / DFT-S OFDM / 16QAM

Lowest MASK / 1RB0



2 Result Summary

Sub Block A	Center 816.50 MHz		Tx Power 21.97 dBm Tx Bandwidth 5.000 MHz		RBW 50.000 kHz	None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.948 01 MHz	-18.49 dBm	-40.46 dB	-5.49 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.990 03 MHz	-34.33 dBm	-56.30 dB	-14.33 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.032 92 MHz	-68.46 dBm	-90.43 dB	-48.46 dB
2.538 MHz	7.500 MHz	100.000 kHz	820.043 14 MHz	-43.88 dBm	-65.84 dB	-30.88 dB

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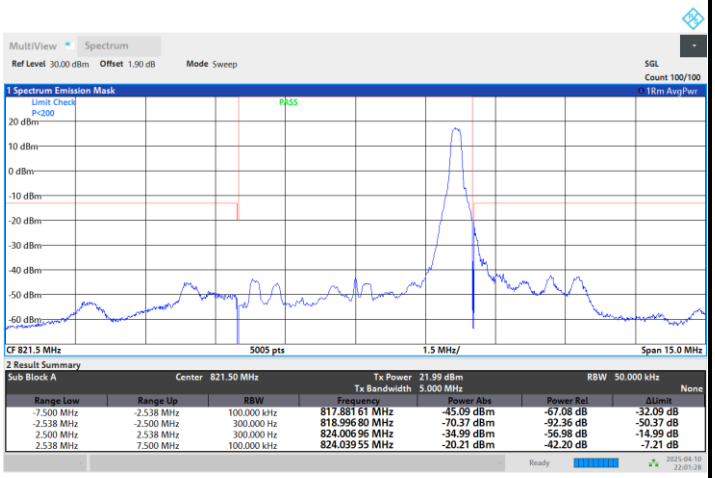
Highest MASK / 1RBmax



2 Result Summary

Sub Block A	Center 821.50 MHz		Tx Power 21.99 dBm Tx Bandwidth 5.000 MHz		RBW 50.000 kHz	None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	817.881 61 MHz	-45.09 dBm	-67.08 dB	-32.09 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.996 80 MHz	-70.37 dBm	-92.36 dB	-50.37 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.006 96 MHz	-34.99 dBm	-56.98 dB	-14.99 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.039 55 MHz	-20.21 dBm	-42.20 dB	-7.21 dB

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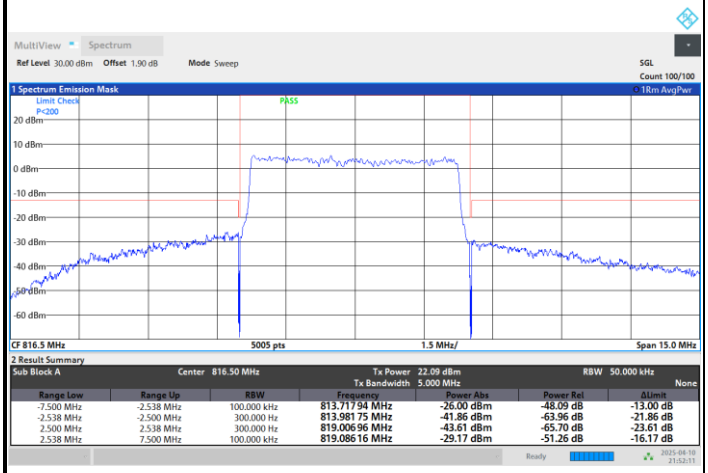
Lowest MASK / Full RB



2 Result Summary

Sub Block A	Center 816.50 MHz		Tx Power 22.09 dBm Tx Bandwidth 5.000 MHz		RBW 50.000 kHz	None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.717 94 MHz	-26.00 dBm	-48.09 dB	-13.00 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.981 75 MHz	-41.86 dBm	-63.96 dB	-21.86 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.006 96 MHz	-43.61 dBm	-65.70 dB	-23.61 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.086 16 MHz	-29.17 dBm	-51.26 dB	-16.17 dB

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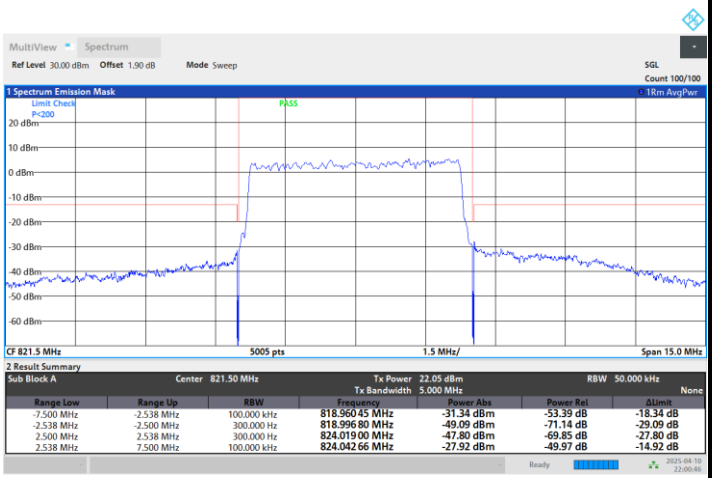
Highest MASK / Full RB



2 Result Summary

Sub Block A	Center 821.50 MHz		Tx Power 22.05 dBm Tx Bandwidth 5.000 MHz		RBW 50.000 kHz	None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.960 45 MHz	-31.34 dBm	-53.39 dB	-18.34 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.996 80 MHz	-49.09 dBm	-71.14 dB	-29.09 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.019 00 MHz	-47.80 dBm	-69.85 dB	-27.80 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.042 66 MHz	-27.92 dBm	-49.97 dB	-14.92 dB

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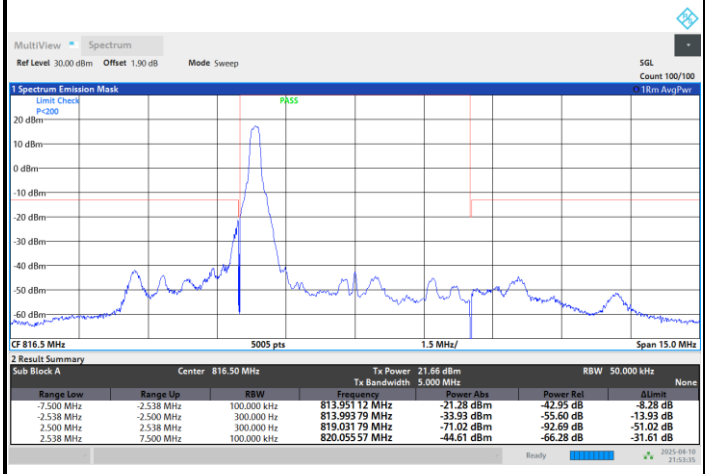
FR1 n26 / 5MHz / DFT-S OFDM / 64QAM

Lowest MASK / 1RB0



2 Result Summary

Sub Block A — Center 816.50 MHz — Tx Power 21.66 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz — None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.951 12 MHz	-21.28 dBm	-42.95 dB	-8.28 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.993 79 MHz	-33.93 dBm	-55.60 dB	-13.93 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.031 79 MHz	-71.02 dBm	-92.69 dB	-51.02 dB
2.538 MHz	7.500 MHz	100.000 kHz	820.055 57 MHz	-44.61 dBm	-66.28 dB	-31.61 dB

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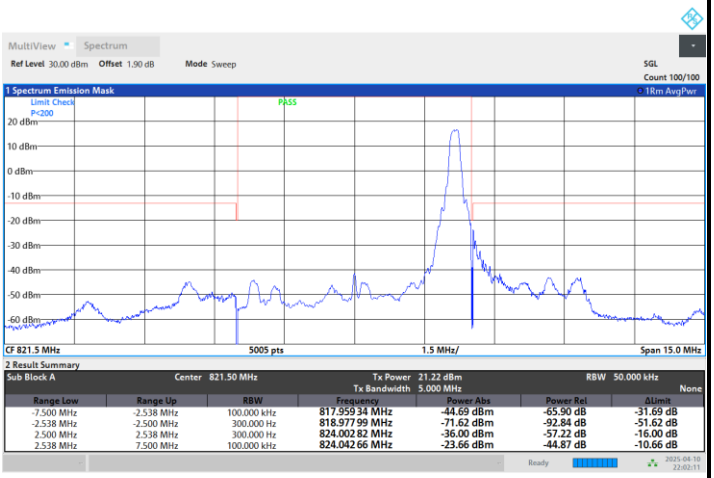
Highest MASK / 1RBmax



2 Result Summary

Sub Block A — Center 821.50 MHz — Tx Power 21.22 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz — None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	817.959 34 MHz	-44.69 dBm	-65.90 dB	-31.69 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.977 99 MHz	-71.62 dBm	-92.84 dB	-51.62 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.002 82 MHz	-36.00 dBm	-57.22 dB	-16.00 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.042 66 MHz	-23.66 dBm	-44.87 dB	-10.66 dB

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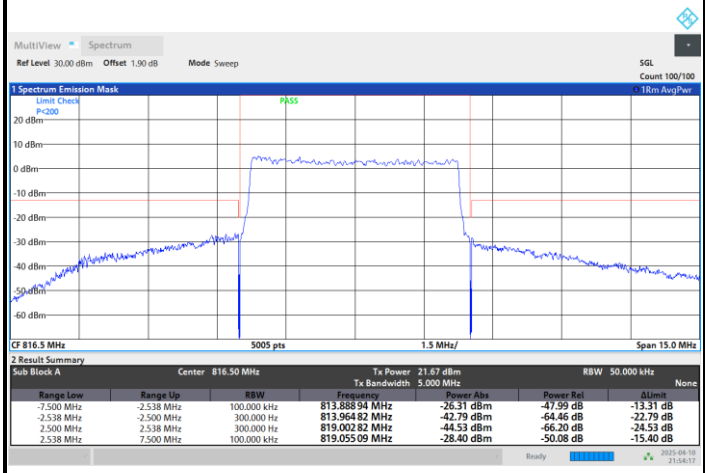
Lowest MASK / Full RB



2 Result Summary

Sub Block A — Center 816.50 MHz — Tx Power 21.67 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz — None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.888 94 MHz	-26.31 dBm	-47.99 dB	-13.31 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.964 82 MHz	-42.79 dBm	-64.46 dB	-22.79 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.002 82 MHz	-44.53 dBm	-66.20 dB	-24.53 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.055 09 MHz	-28.40 dBm	-50.08 dB	-15.40 dB

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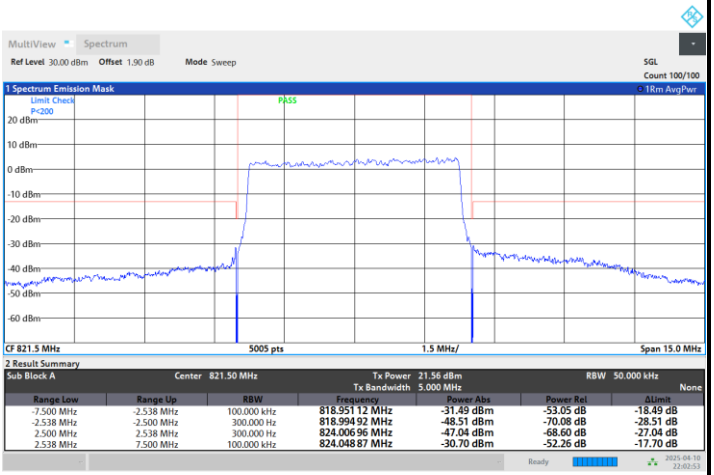
Highest MASK / Full RB



2 Result Summary

Sub Block A — Center 821.50 MHz — Tx Power 21.56 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz — None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.951 12 MHz	-31.49 dBm	-53.05 dB	-18.49 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.994 92 MHz	-48.51 dBm	-70.08 dB	-28.51 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.006 96 MHz	-47.04 dBm	-68.60 dB	-27.04 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.048 87 MHz	-30.70 dBm	-52.26 dB	-17.70 dB

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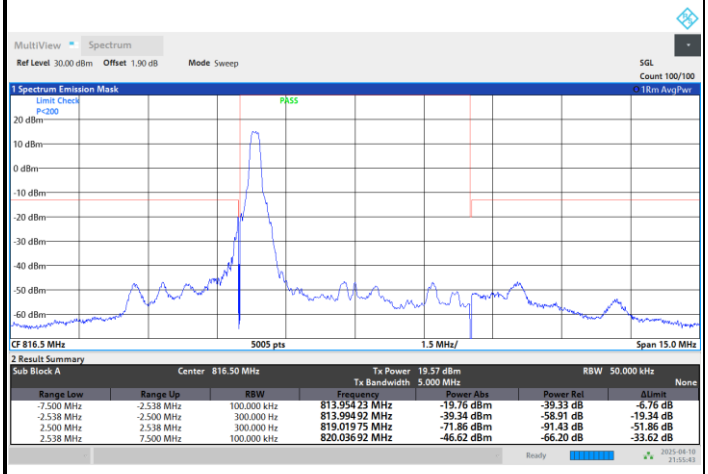
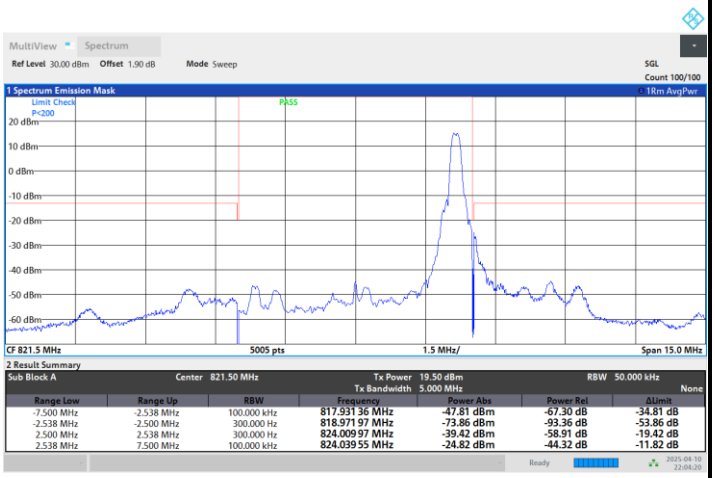
FR1 n26 / 5MHz / DFT-S OFDM / 256QAM

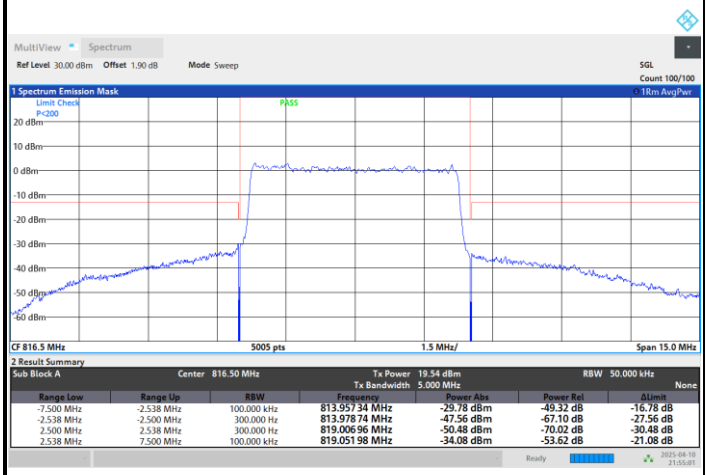
Lowest MASK / 1RB0



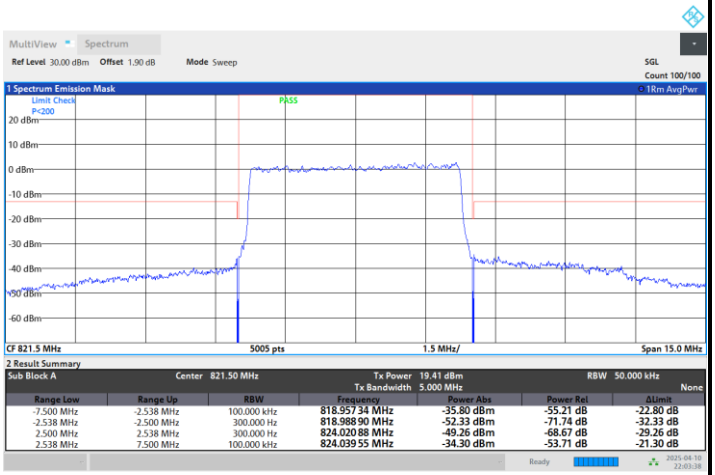
Highest MASK / 1RBmax

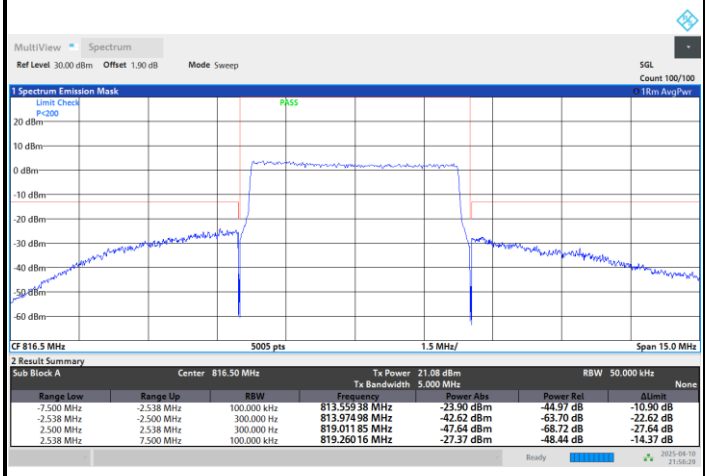
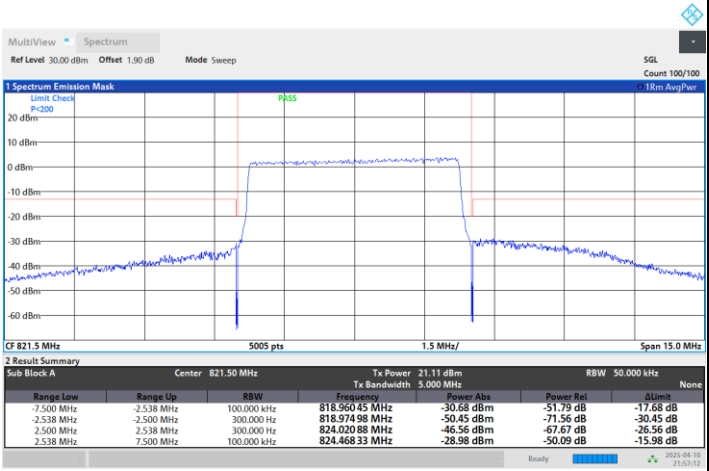


Lowest MASK / Full RB



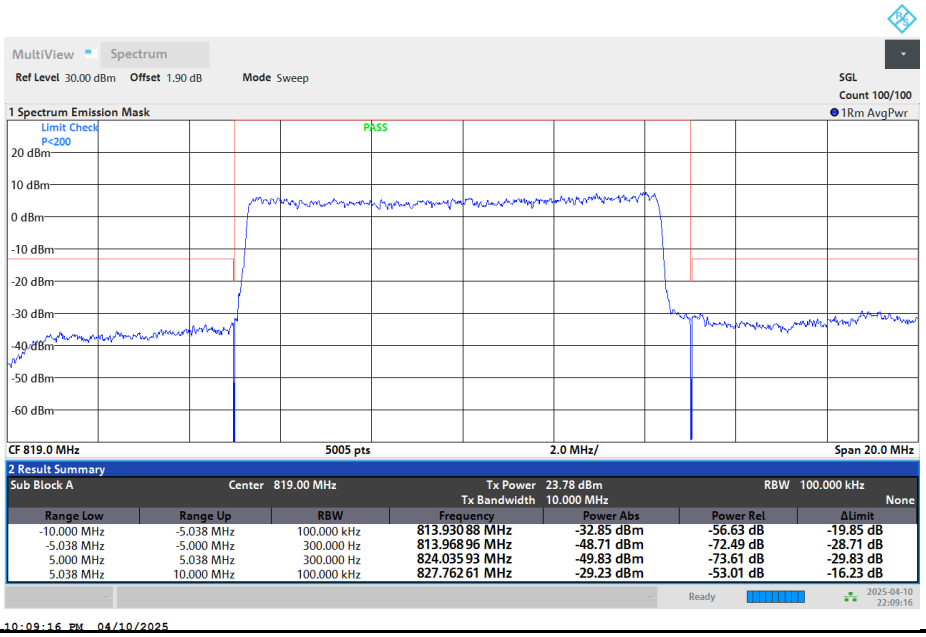
Highest MASK / Full RB



FR1 n26 / 5MHz / CP OFDM / QPSK / Full RB	
Lowest MASK	**Highest MASK**
	

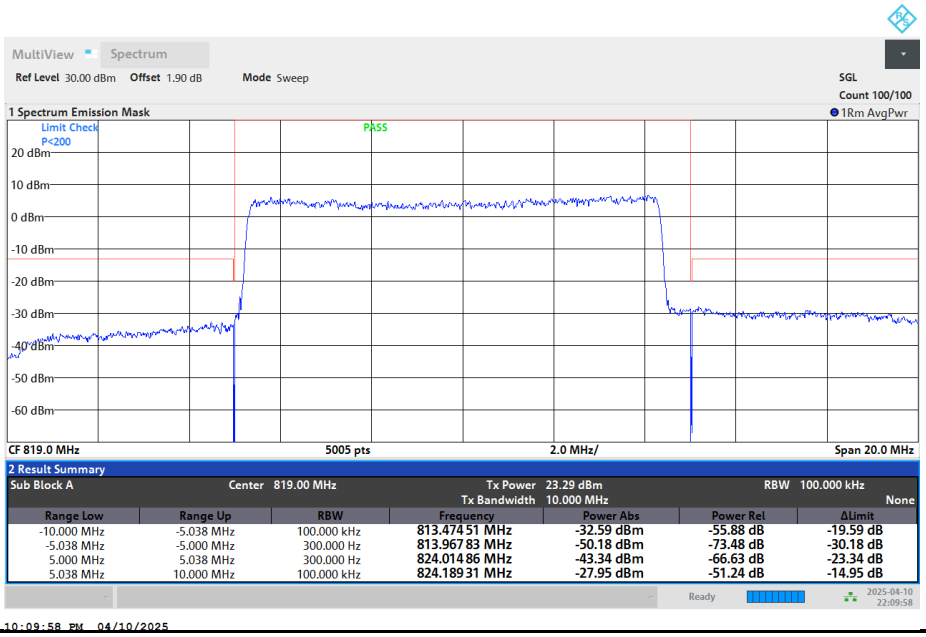
FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Middle MASK / Full RB



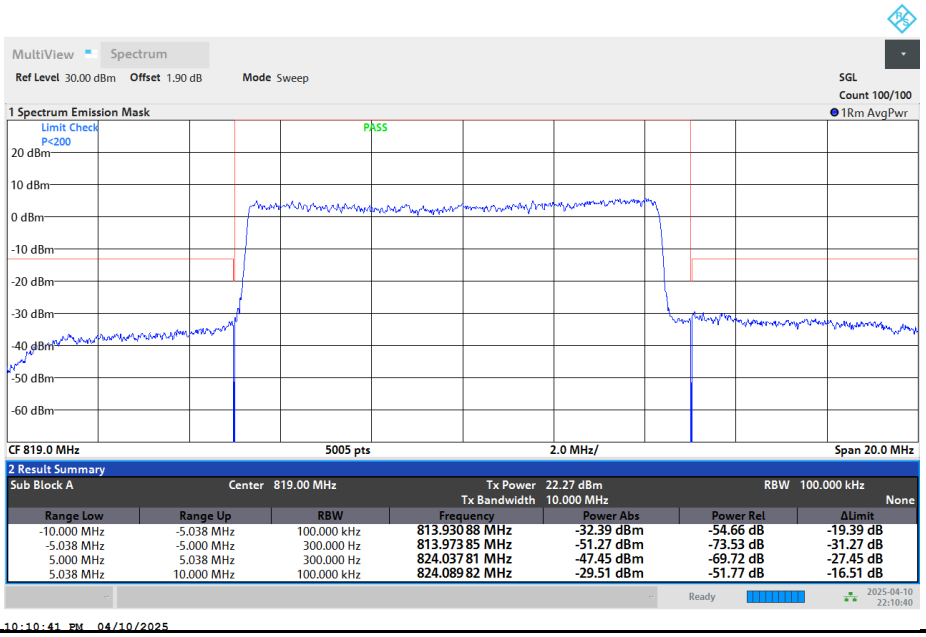
FR1 n26 / 10MHz / DFT-s-OFDM / QPSK

Lowest MASK / Full RB



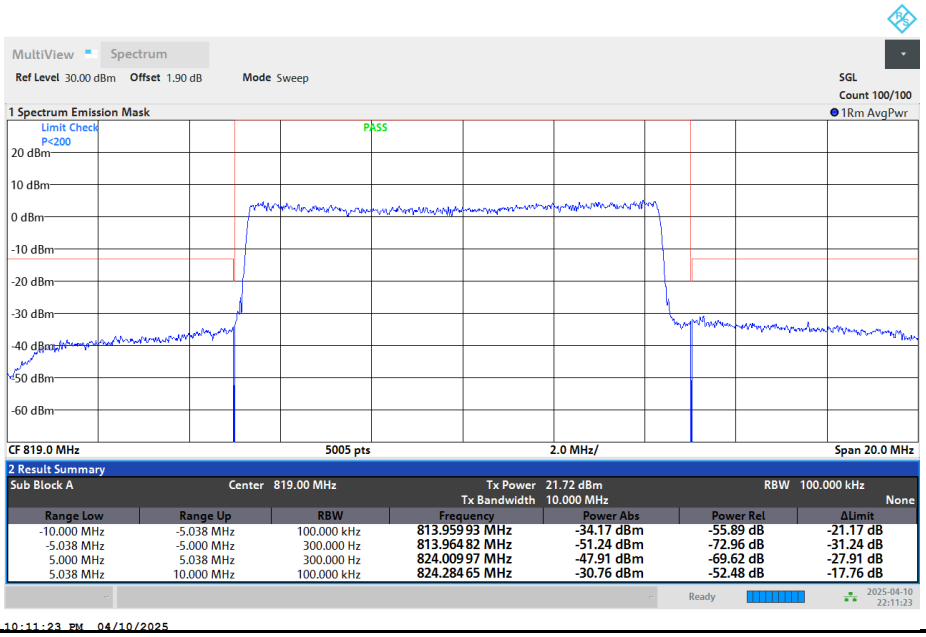
FR1 n26 / 10MHz / DFT-s-OFDM / 16QAM

Middle MASK / Full RB



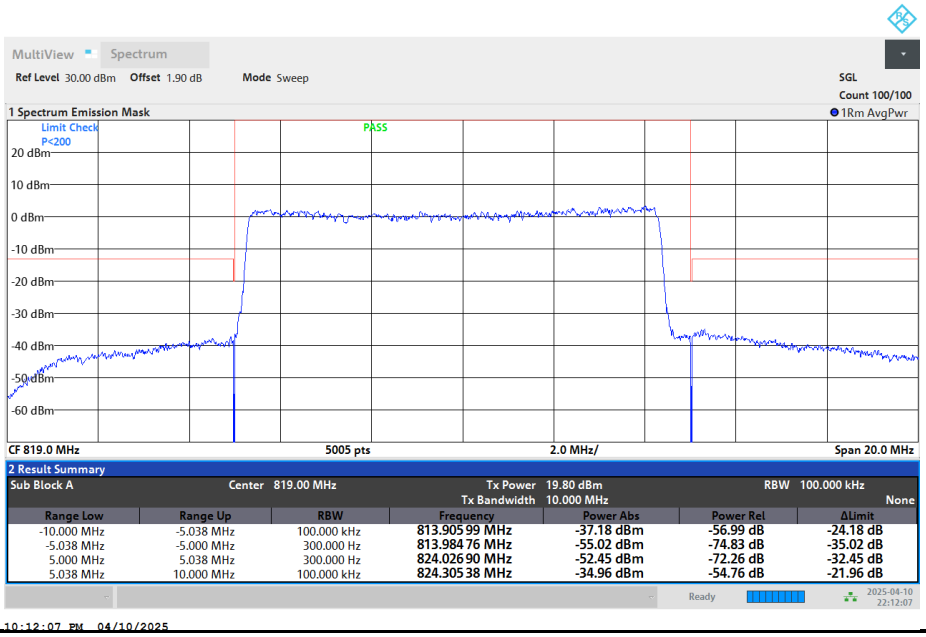
FR1 n26 / 10MHz / DFT-s-OFDM / 64QAM

Middle MASK / Full RB



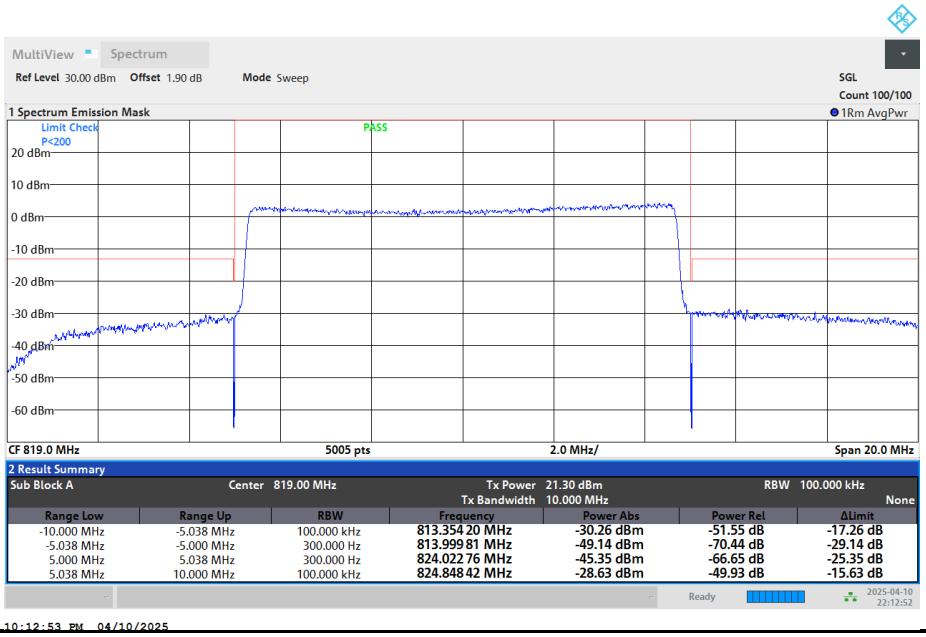
FR1 n26 / 10MHz / DFT-s-OFDM / 256QAM

Middle MASK / Full RB



FR1 n26 / 10MHz / CP OFDM / QPSK / Full RB

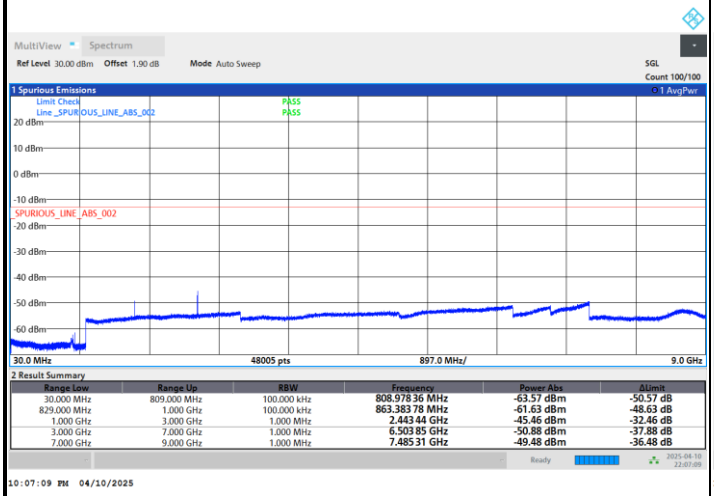
Middle MASK



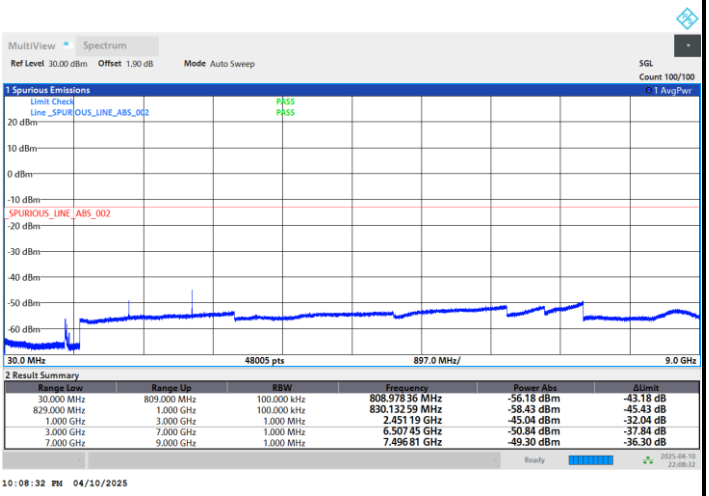
Emission masks – Out of band emissions

FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1

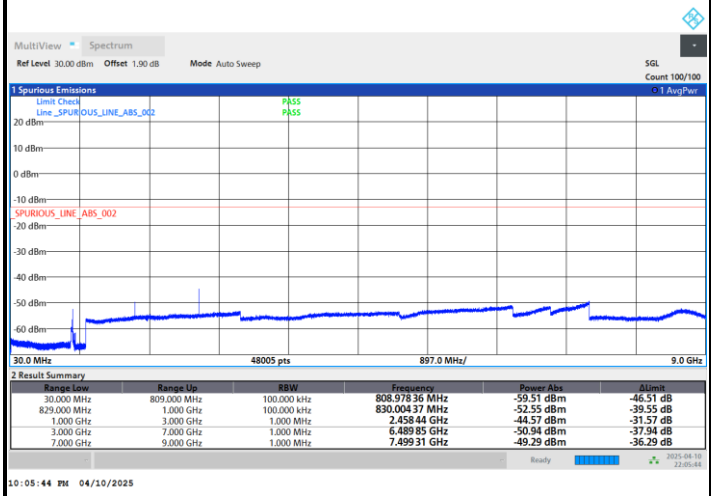
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0075	PASS
40	Normal Voltage	0.0068	
30	Normal Voltage	0.0059	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0024	

Note:

1. Normal Voltage = 3.8 V.；Minimum Voltage = 3.4 V.；Maximum Voltage = 4.4 V..
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n26 (Part90s Straddle Channel)

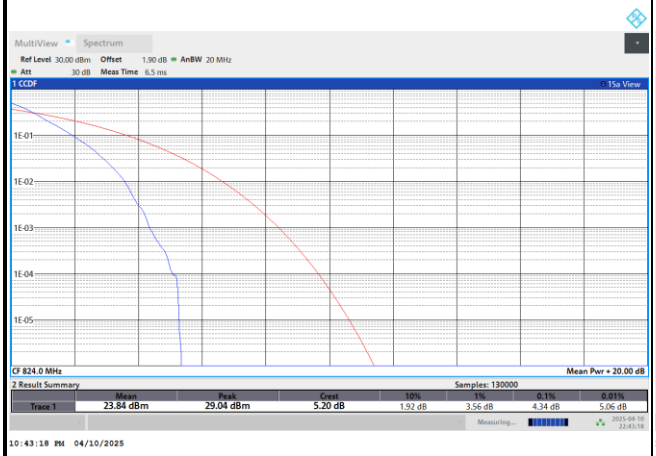
<SISO Mode>

Peak-to-Average Ratio

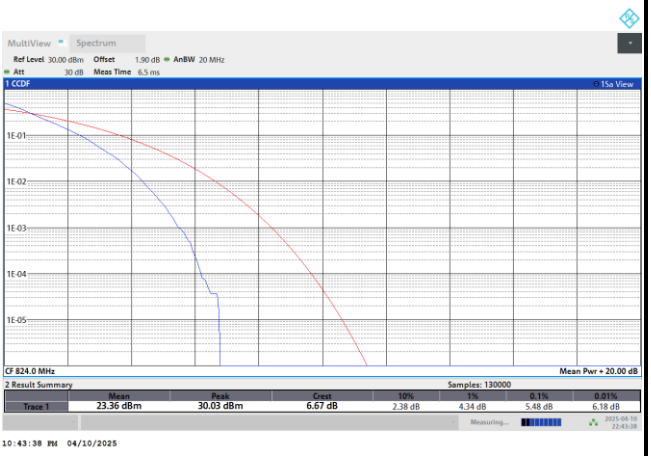
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
824 MHz	4.34	5.48	6.18	6.64	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
824 MHz	6.70				PASS

FR1 n26 / 20MHz / DFT-S OFDM / 824 MHz / Full RB

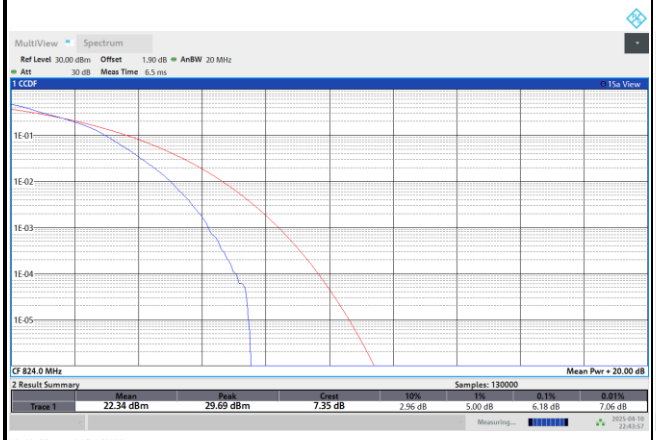
PI/2 BPSK



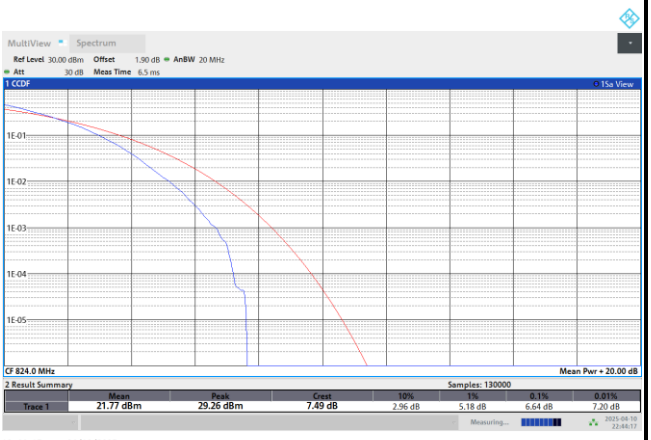
QPSK



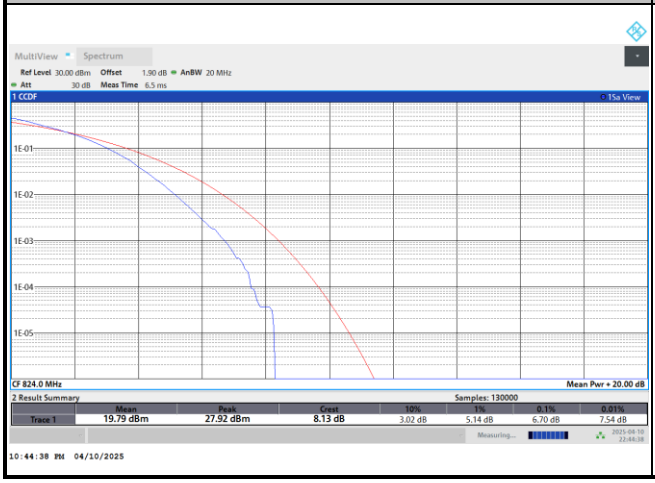
16QAM



64QAM



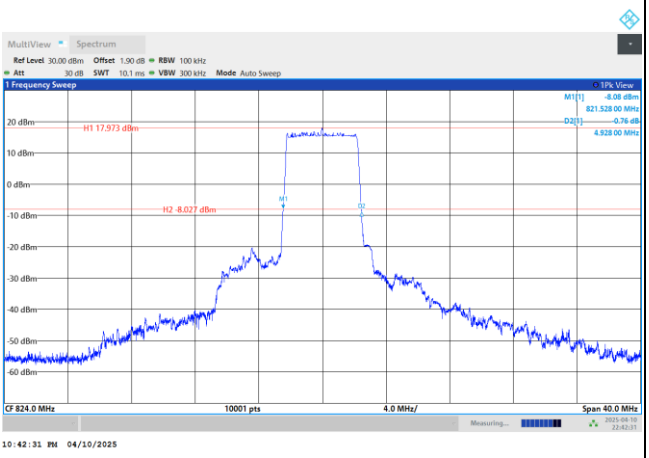
256QAM

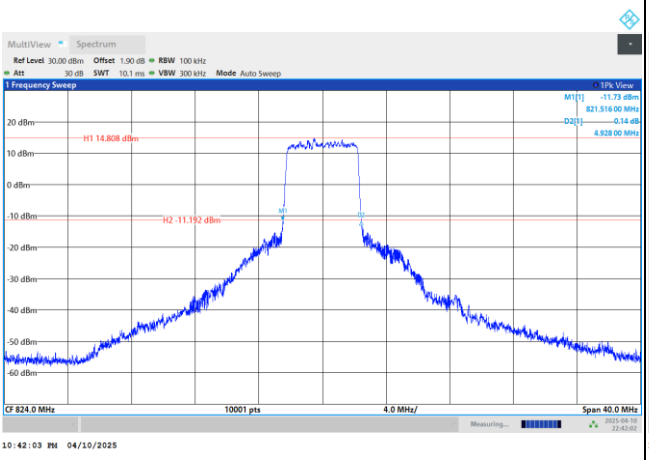
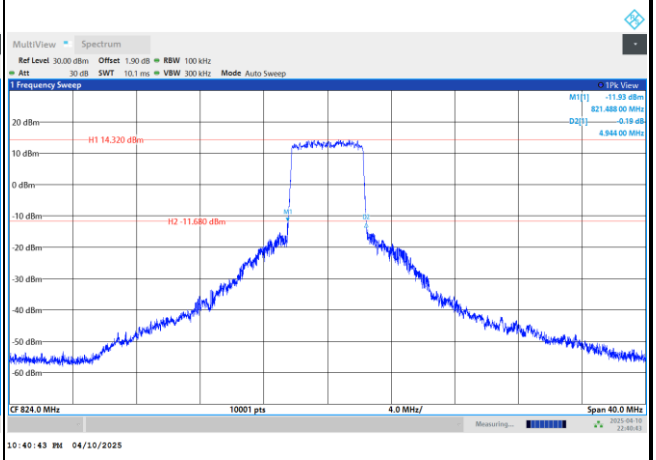
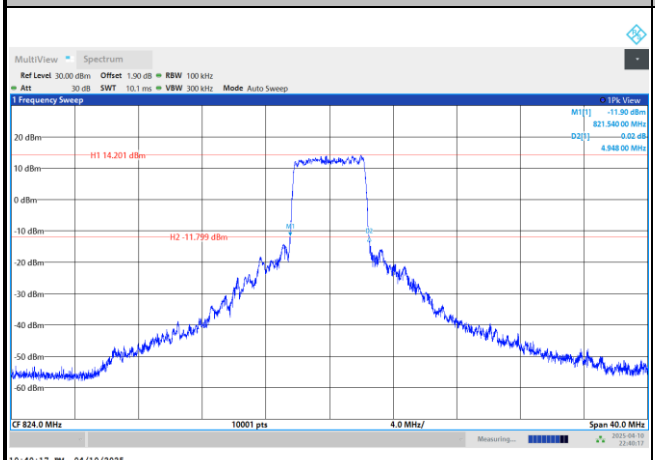
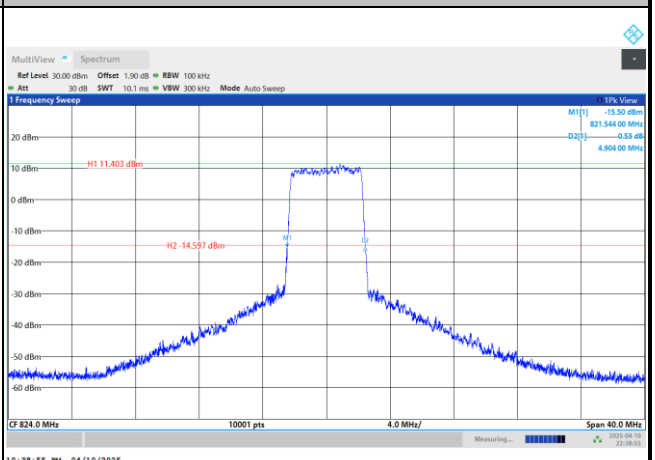


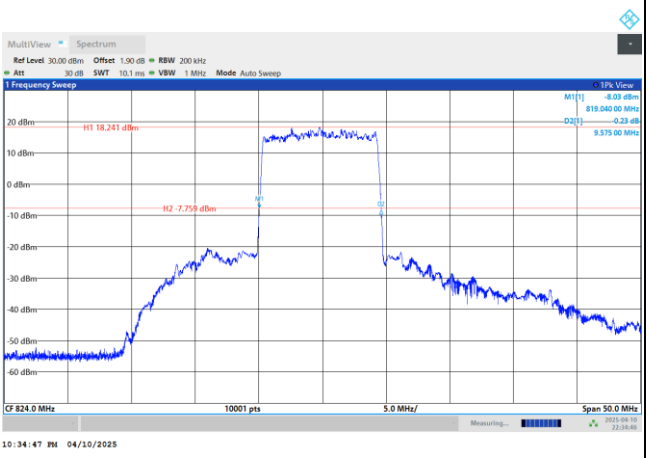
26dB Bandwidth

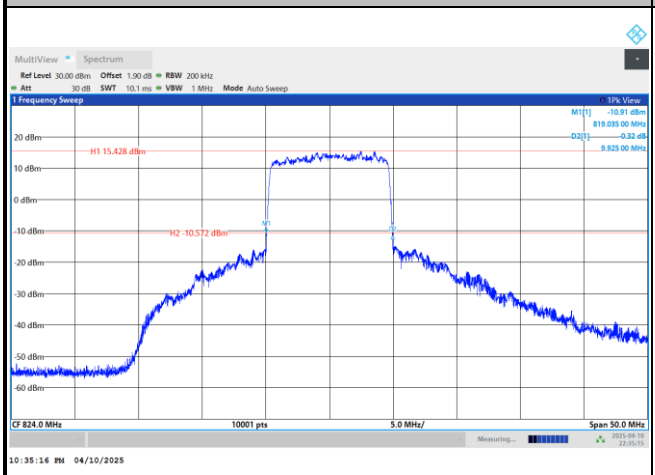
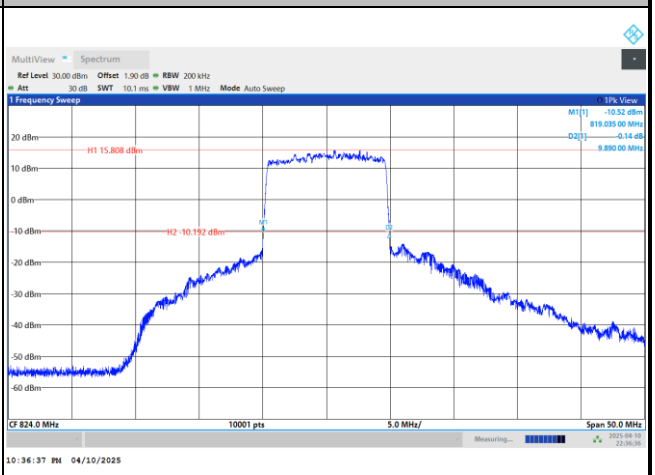
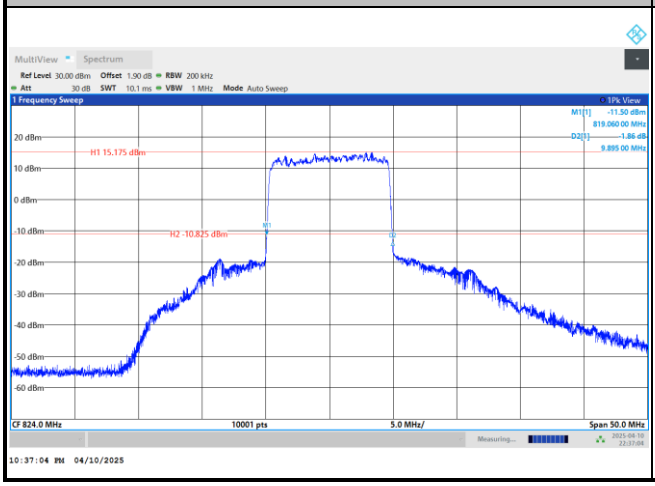
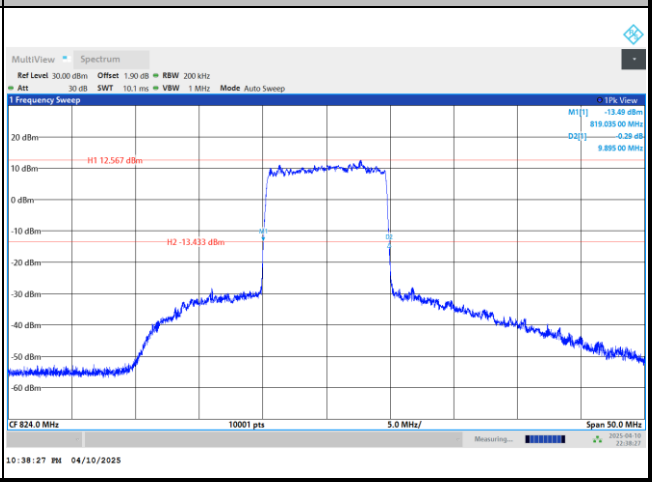
Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
824 MHz	4.92		9.57		14.27		19.13	

Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824 MHz	4.92	4.94	9.92	9.89	14.94	14.98	22.42	20.24
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824 MHz	4.94	4.90	9.89	9.89	14.94	14.90	20.22	20.23

FR1 n26 / 5MHz / DFT-S OFDM / 824 MHz / Full RB	
PI/2 BPSK	
	

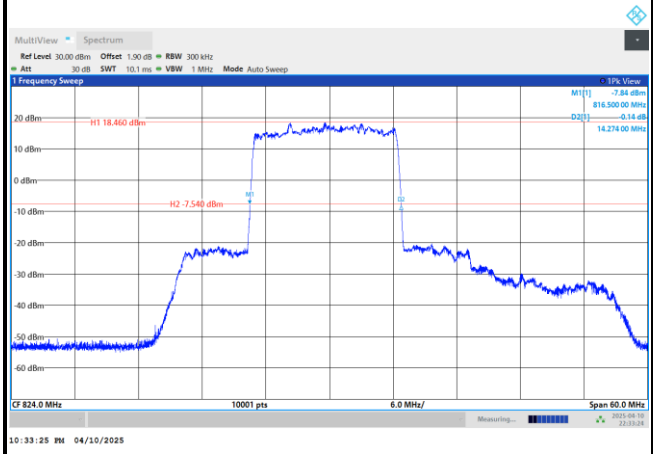
FR1 n26 / 5MHz / CP OFDM / 824 MHz / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n26 / 10MHz / DFT-S OFDM / 824 MHz / Full RB	
PI/2 BPSK	
	

FR1 n26 / 10MHz / CP OFDM / 824 MHz / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

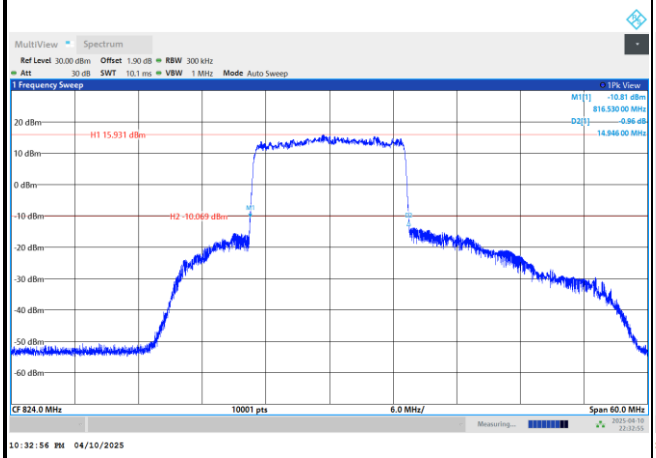
FR1 n26 / 15MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

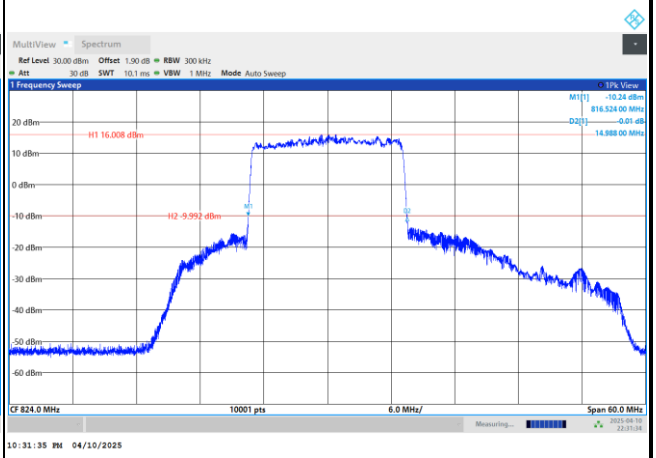


FR1 n26 / 15MHz / CP OFDM / 824 MHz / Full RB

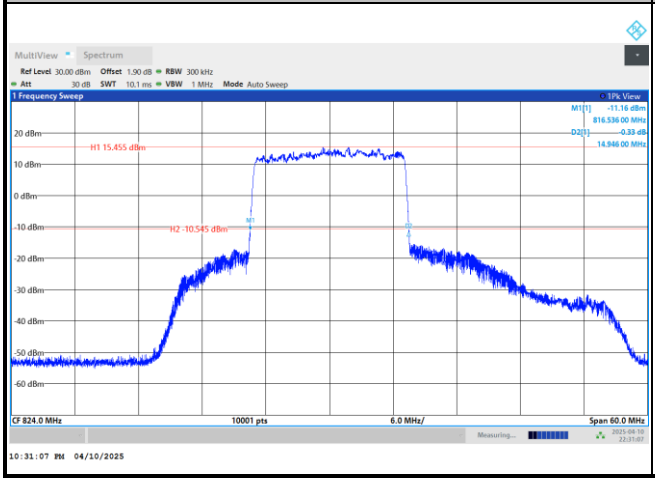
QPSK



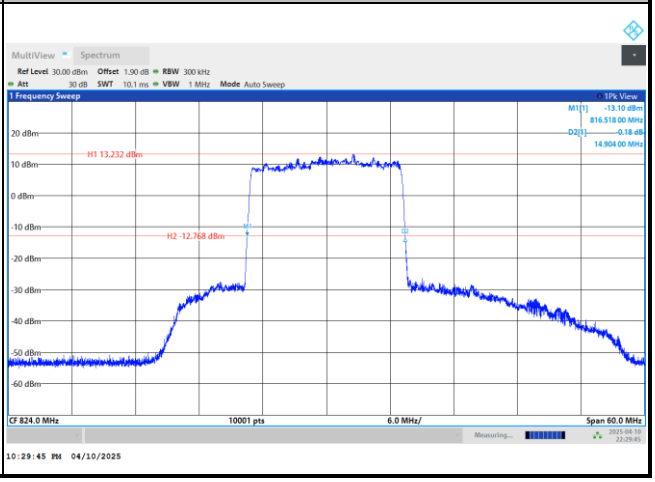
16QAM

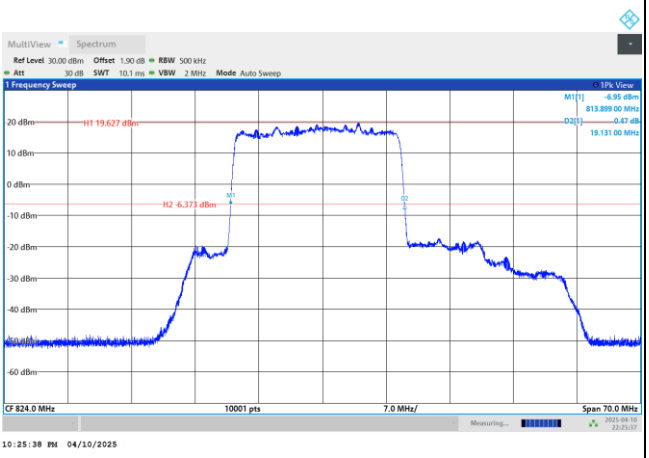


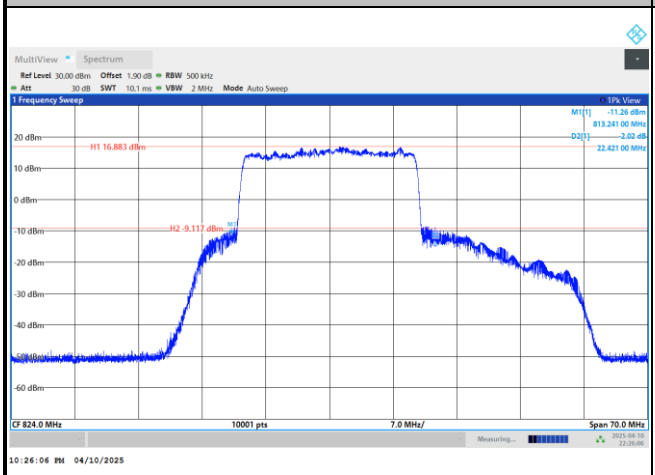
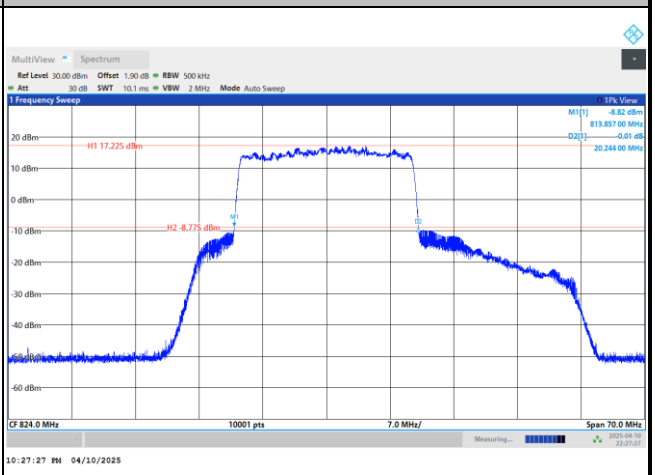
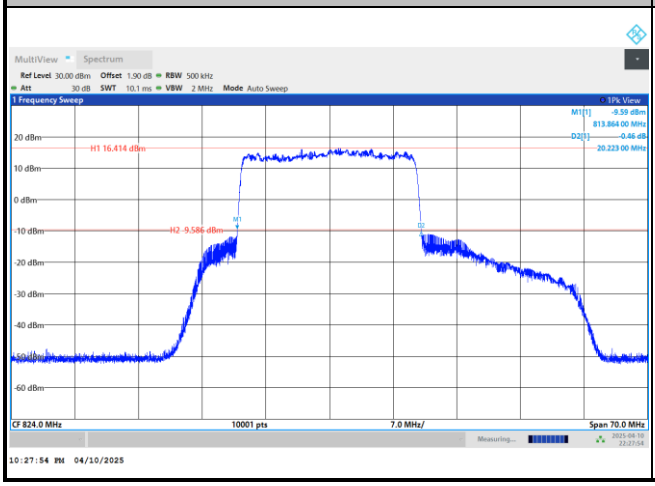
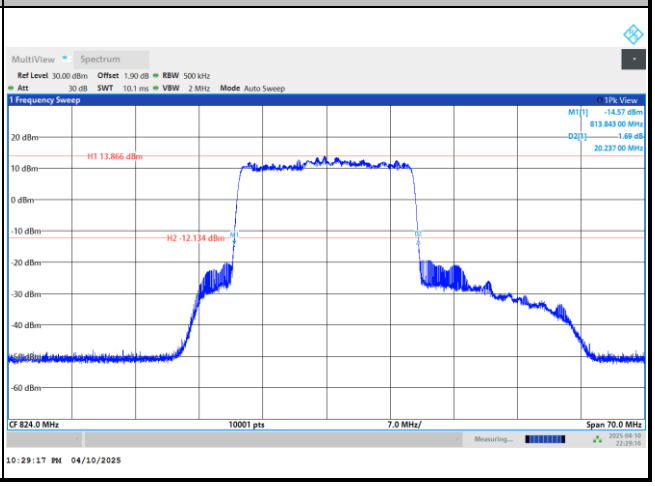
64QAM



256QAM



FR1 n26 / 20MHz / DFT-S OFDM / 824 MHz / Full RB	
PI/2 BPSK	
	

FR1 n26 / 20MHz / CP OFDM / 824 MHz / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

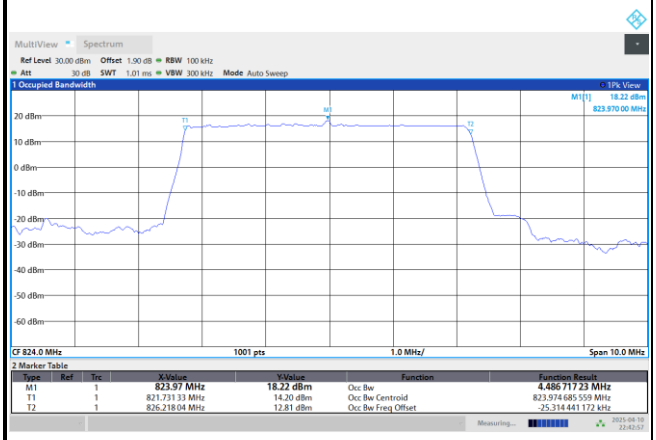
Occupied Bandwidth

Mode	FR1 n26 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
824 MHz	4.48		8.98		13.44		18.01	

Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824 MHz	4.48	4.49	9.26	9.28	14.10	14.14	19.06	19.03
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824 MHz	4.50	4.48	9.29	9.29	14.12	14.12	19.07	18.97

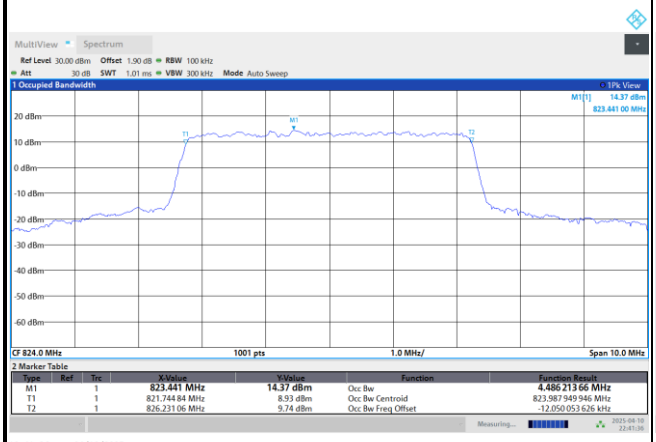
FR1 n26 / 5MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

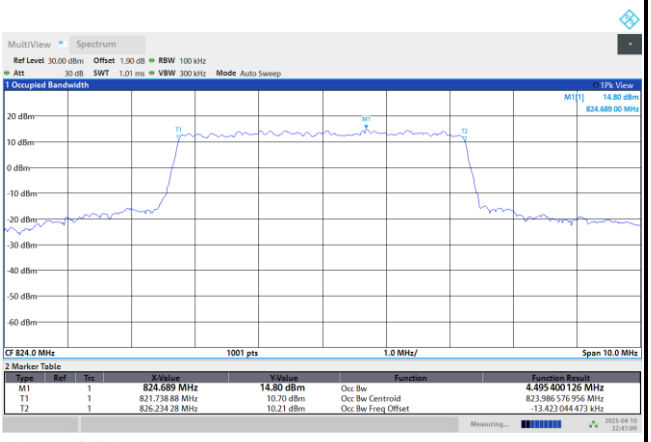


FR1 n26 / 5MHz / CP OFDM / 824 MHz / Full RB

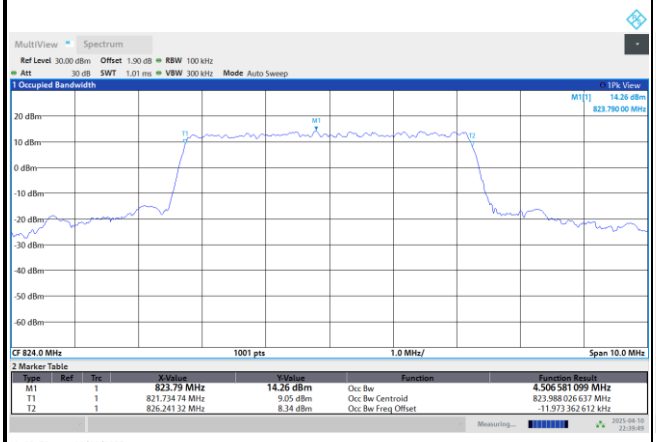
QPSK



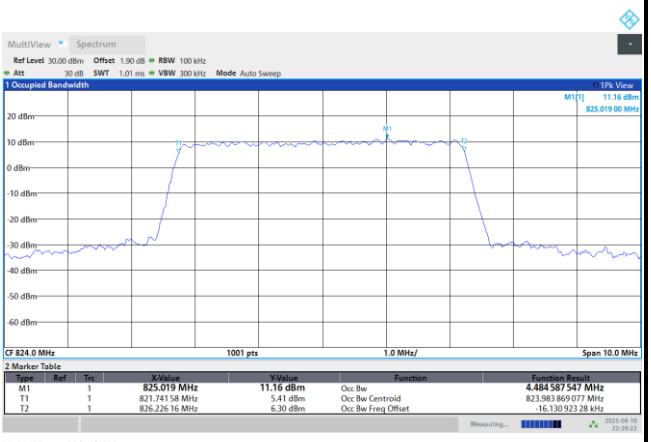
16QAM



64QAM

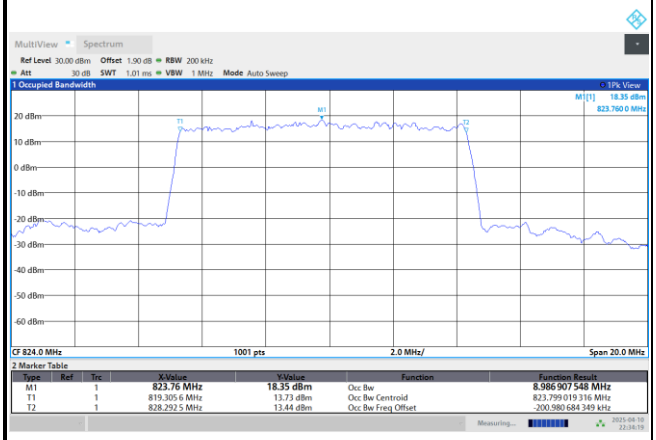


256QAM



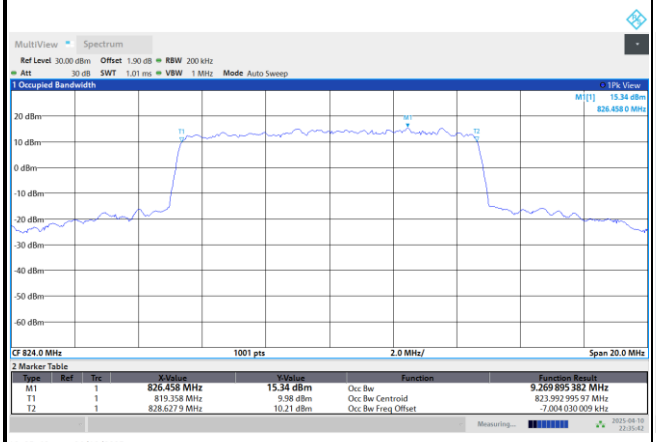
FR1 n26 / 10MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

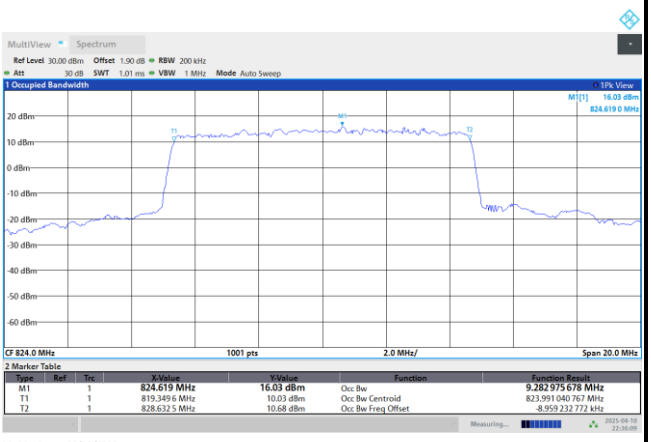


FR1 n26 / 10MHz / CP OFDM / 824 MHz / Full RB

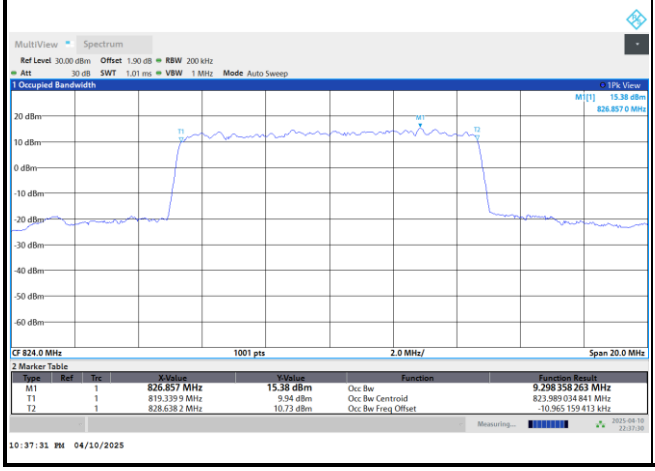
QPSK



16QAM



64QAM



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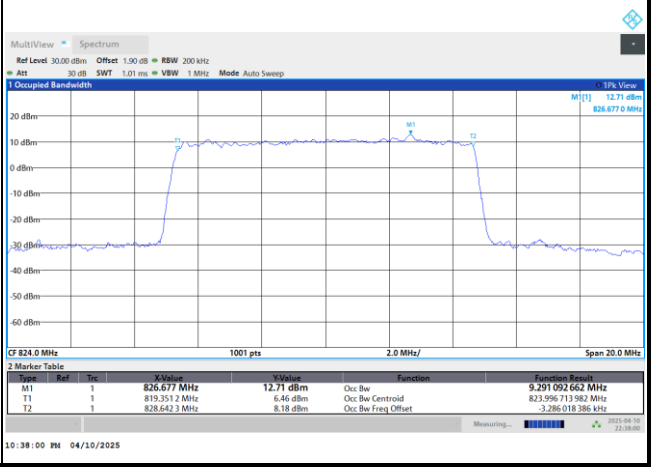
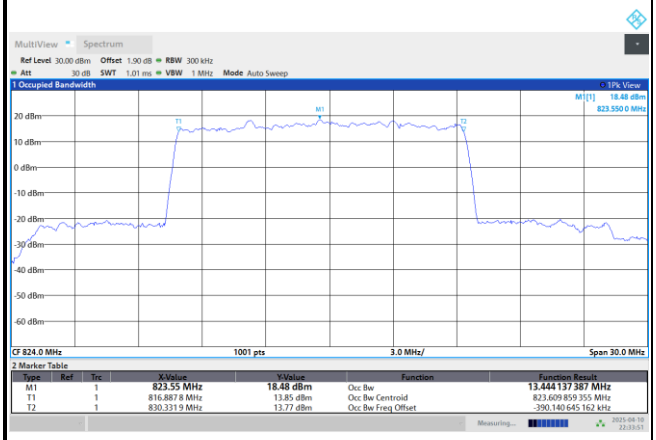


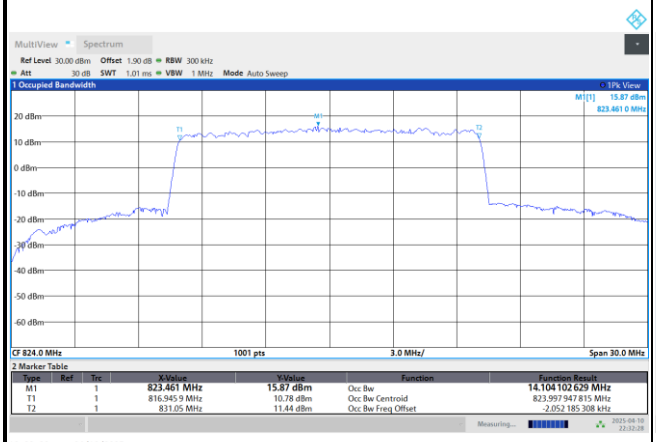
FR1 n26 / 15MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

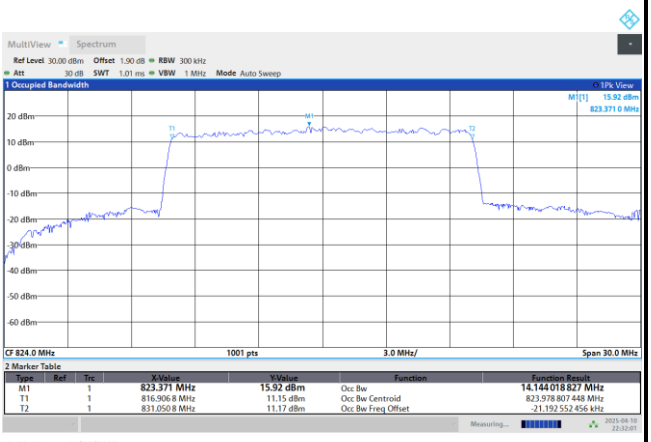


FR1 n26 / 15MHz / CP OFDM / 824 MHz / Full RB

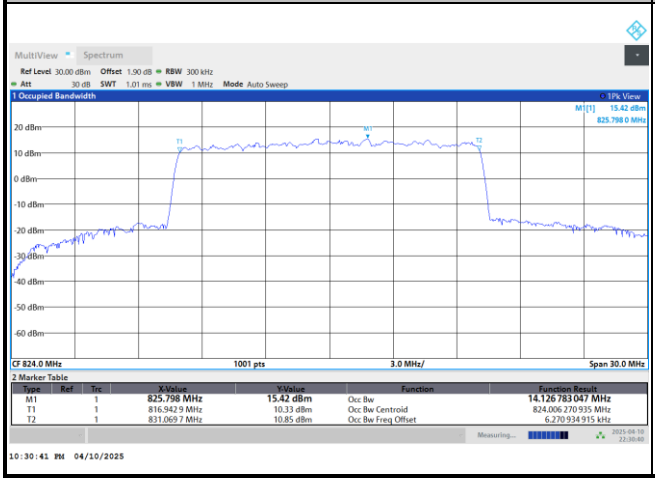
QPSK



16QAM



64QAM



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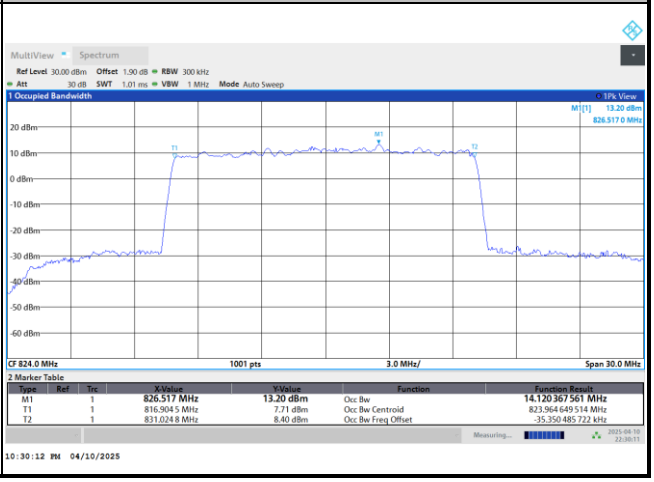
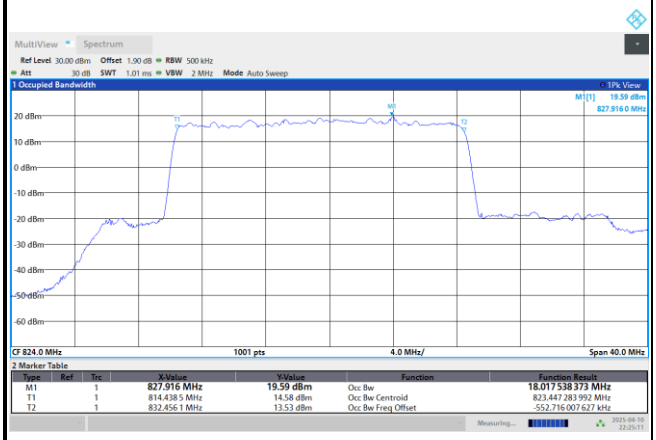


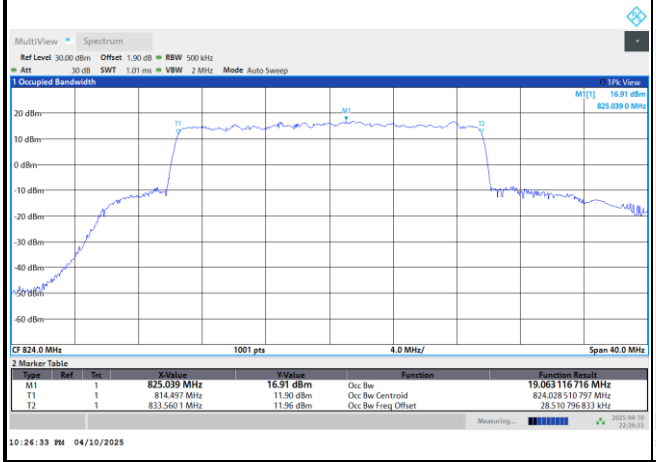
FR1 n26 / 20MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

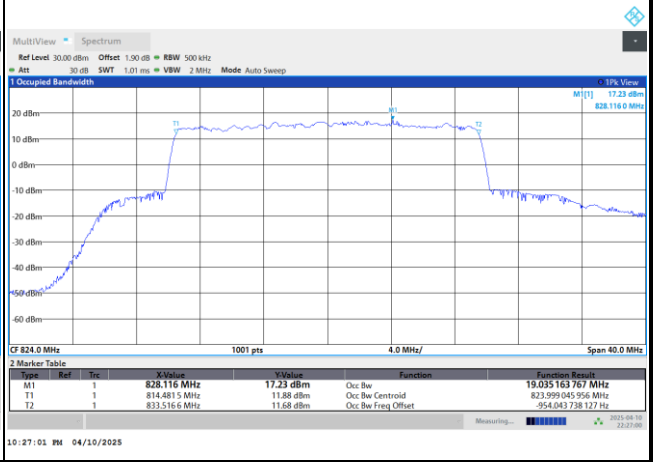


FR1 n26 / 20MHz / CP OFDM / 824 MHz / Full RB

QPSK



16QAM



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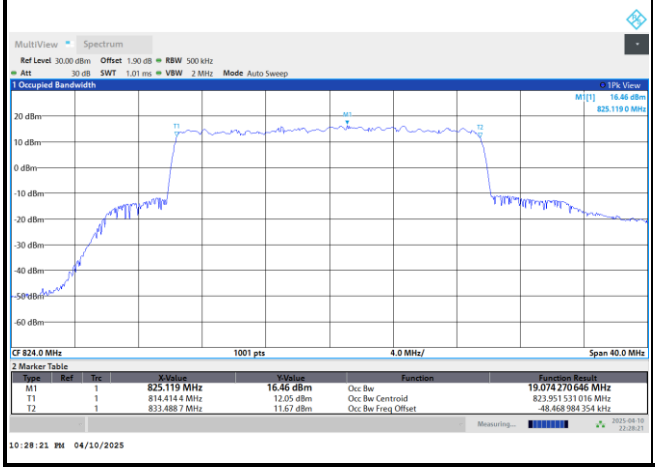

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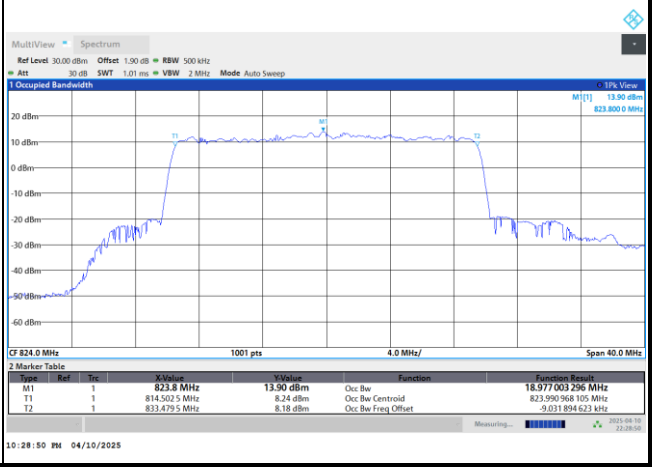
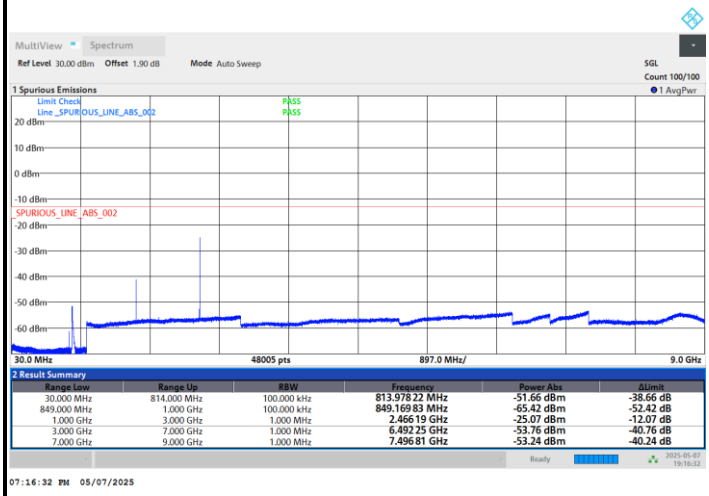


Conducted Spurious Emission

FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1	
Middle Channel	
	

Frequency Stability

Test Conditions		FR1 n26 (BPSK) / 824 MHz	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0075	PASS
40	Normal Voltage	0.0068	
30	Normal Voltage	0.0059	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0024	

Note:

1. Normal Voltage = 3.8 V.；Minimum Voltage = 3.4 V.；Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.