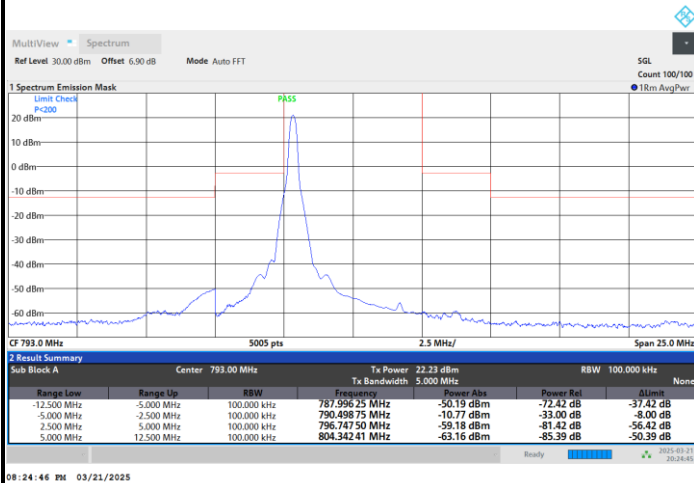




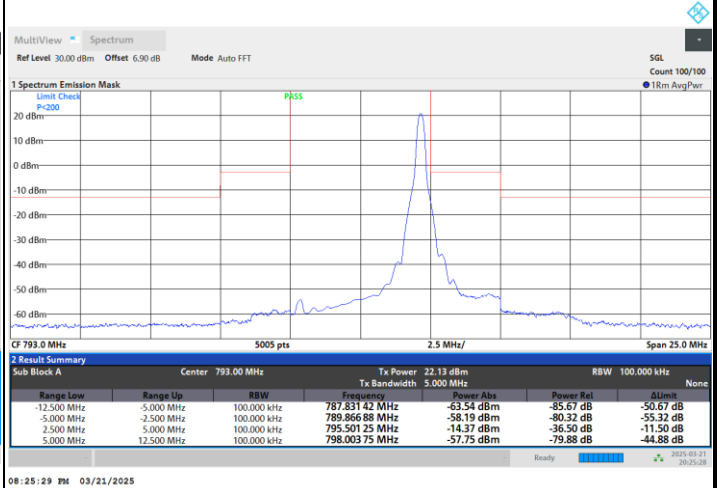
FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

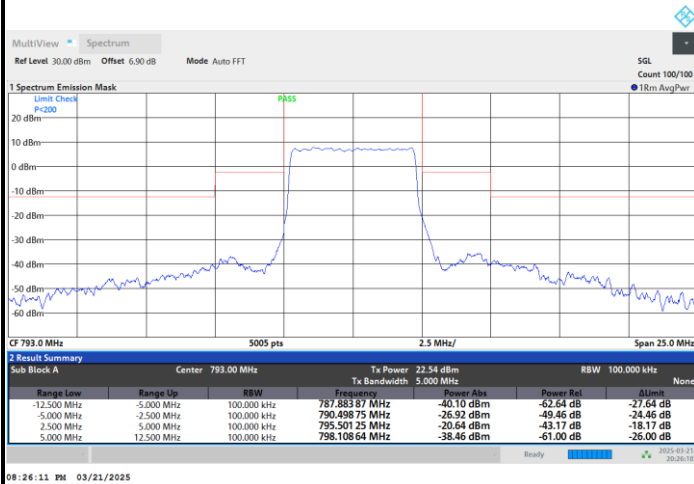
1RB0



1RBmax



Full RB

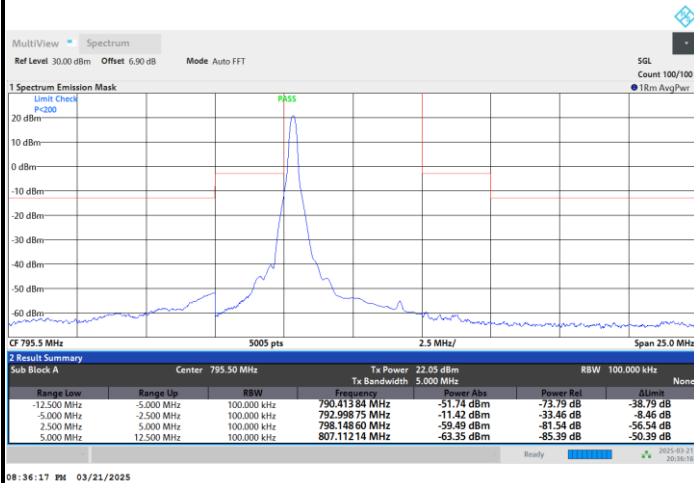




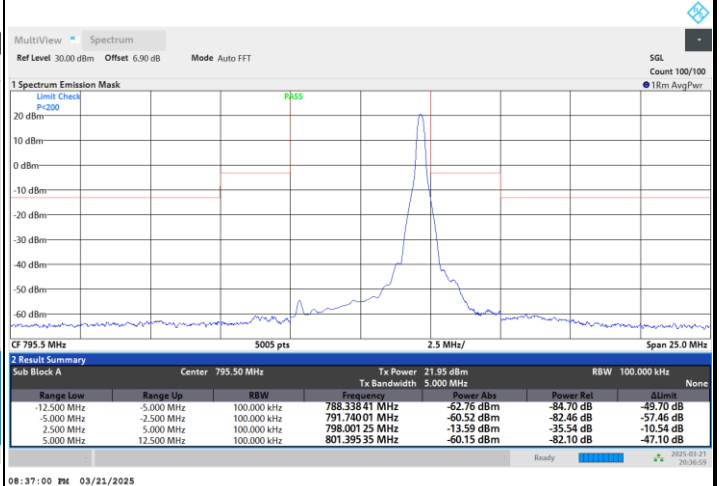
FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

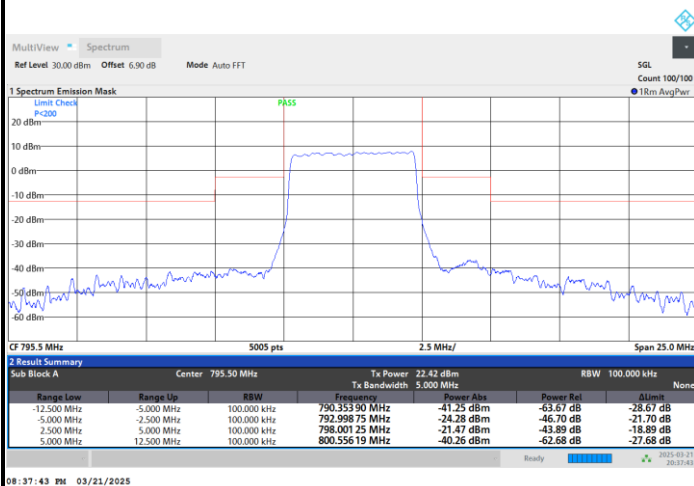
1RB0



1RBmax



Full RB

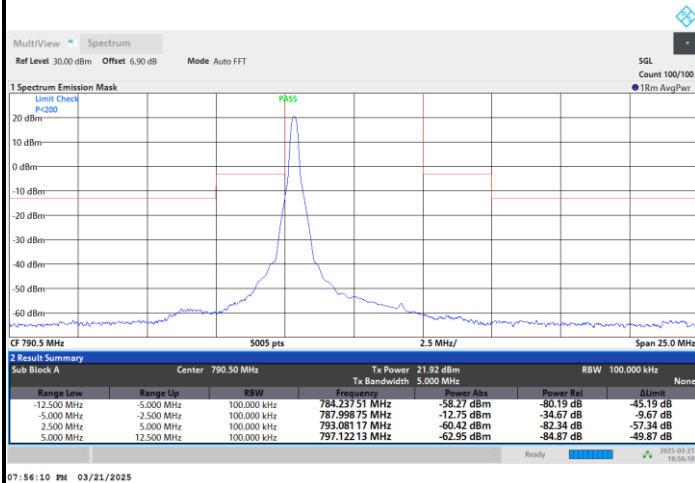




FR1 n14 / 5MHz / DFT-S OFDM / QPSK

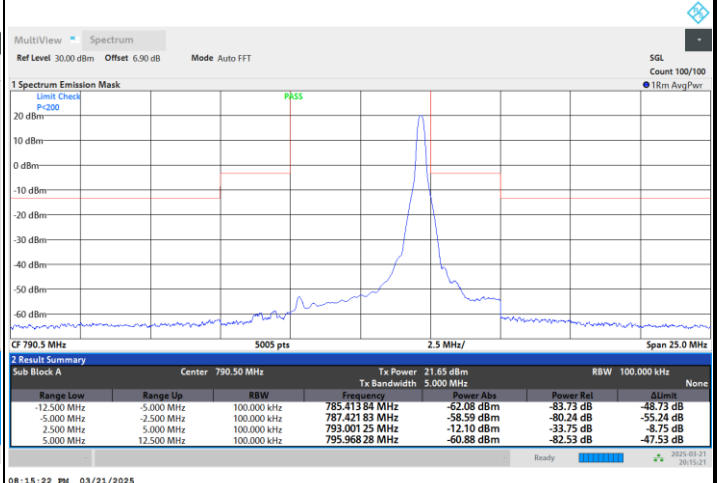
Lowest Channel

1RB0



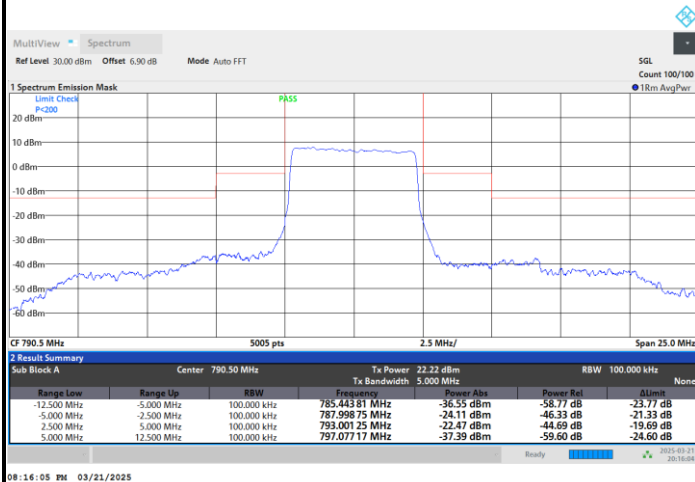
07:56:10 PM 03/21/2025

1RBmax



08:15:22 PM 03/21/2025

Full RB



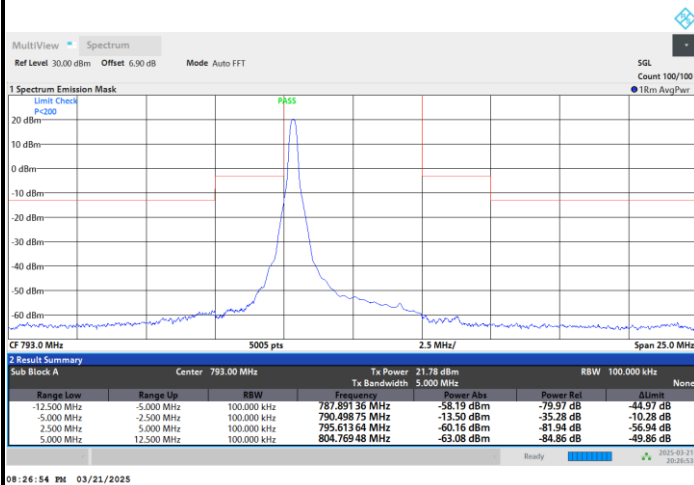
08:16:05 PM 03/21/2025



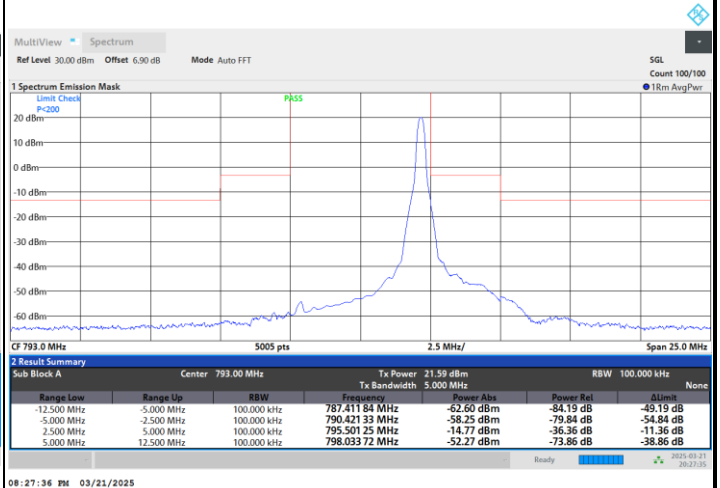
FR1 n14 / 5MHz / DFT-S OFDM / QPSK

Middle Channel

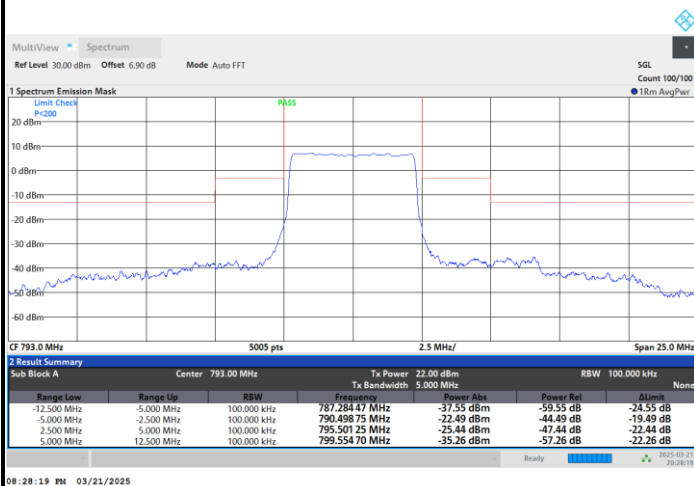
1RB0



1RBmax



Full RB

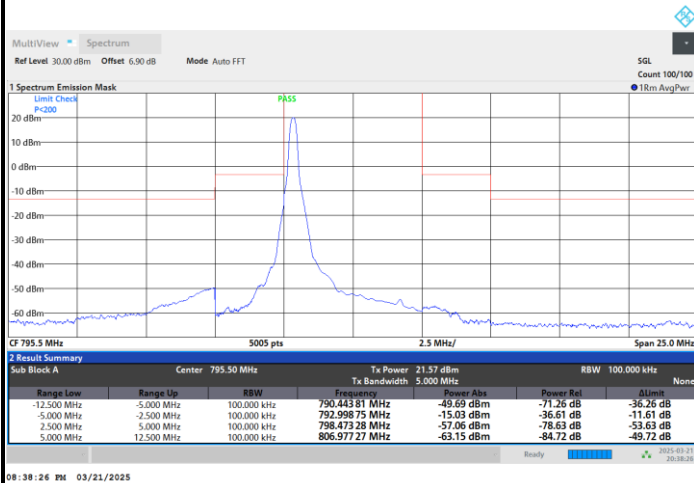




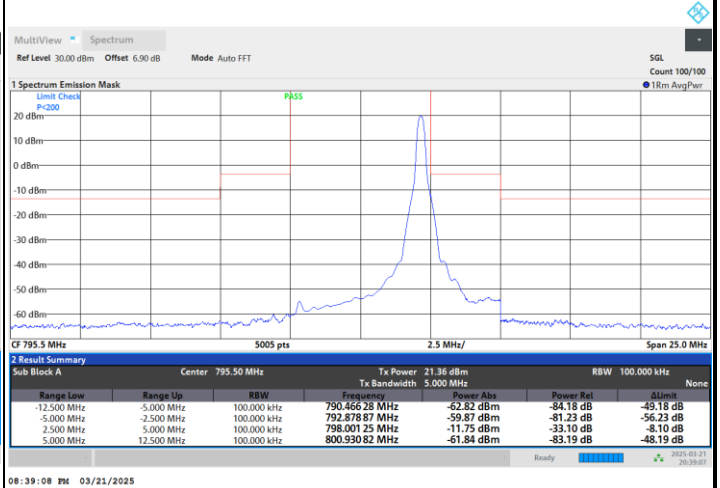
FR1 n14 / 5MHz / DFT-S OFDM / QPSK

Highest Channel

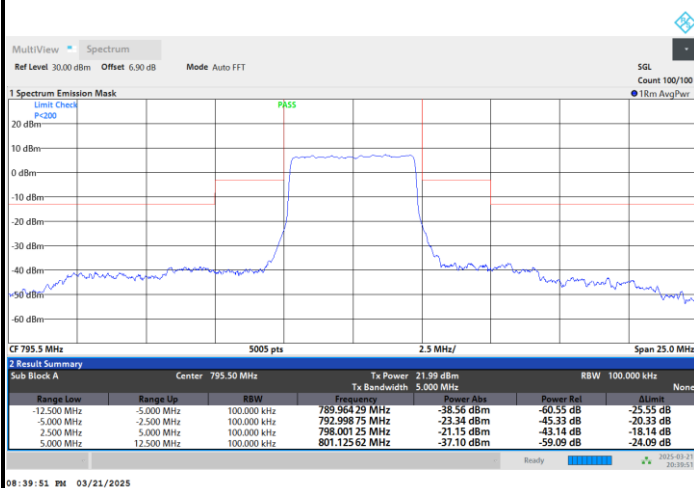
1RB0



1RBmax



Full RB

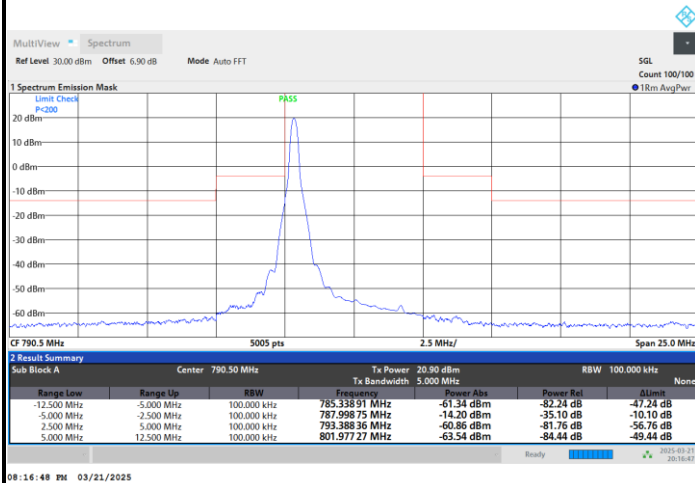




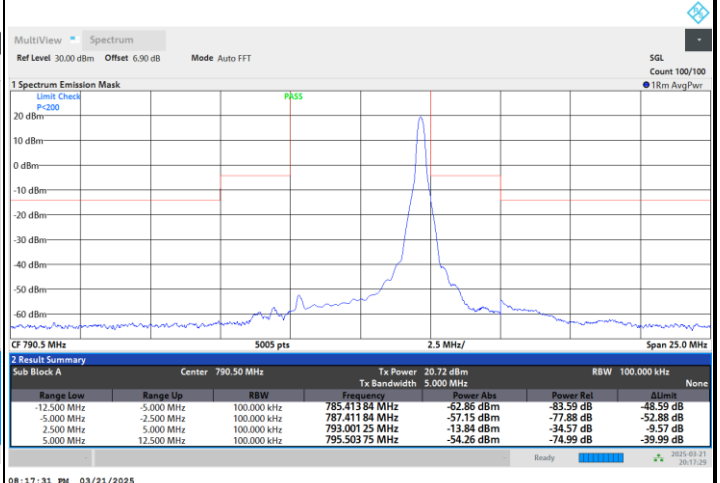
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

Lowest Channel

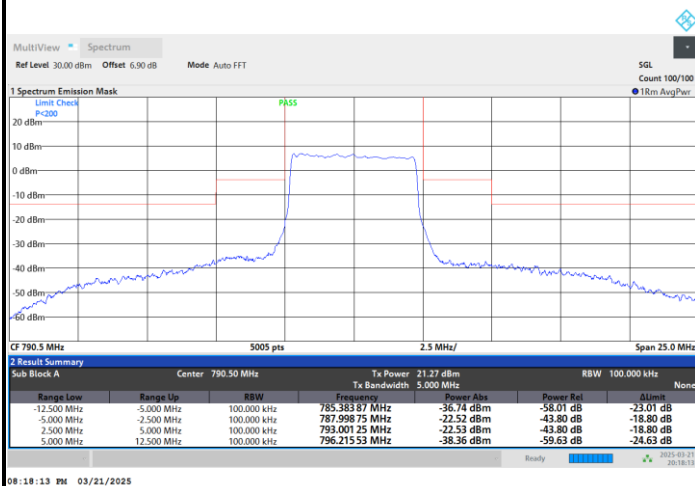
1RB0



1RBmax



Full RB

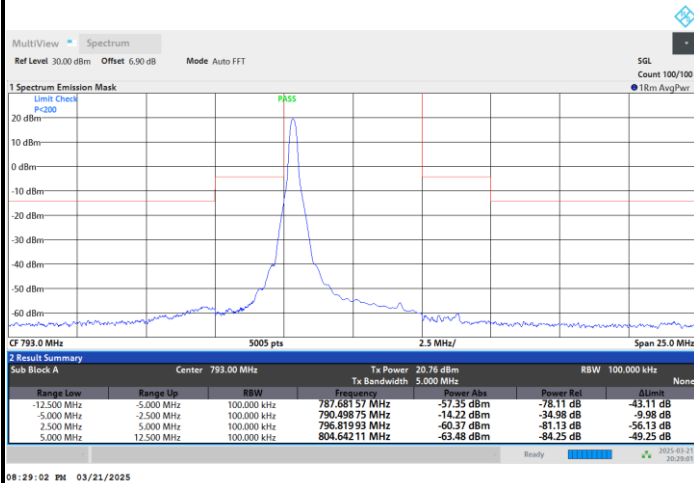




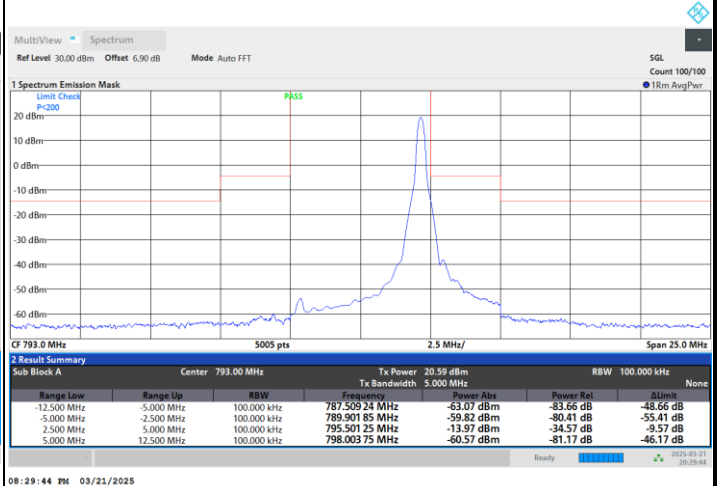
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

Middle Channel

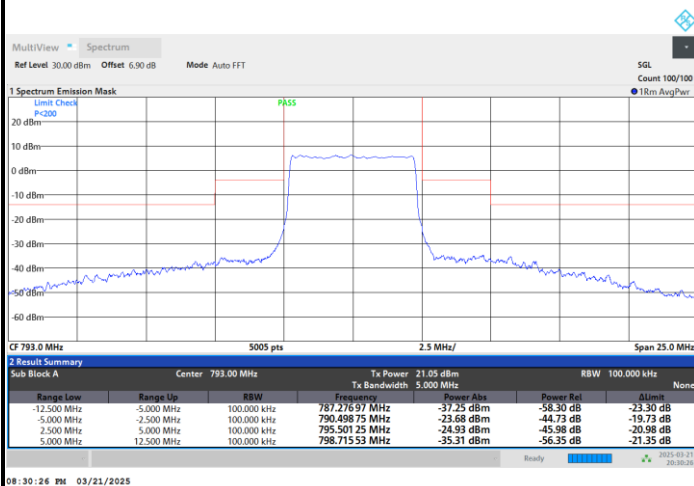
1RB0



1RBmax



Full RB

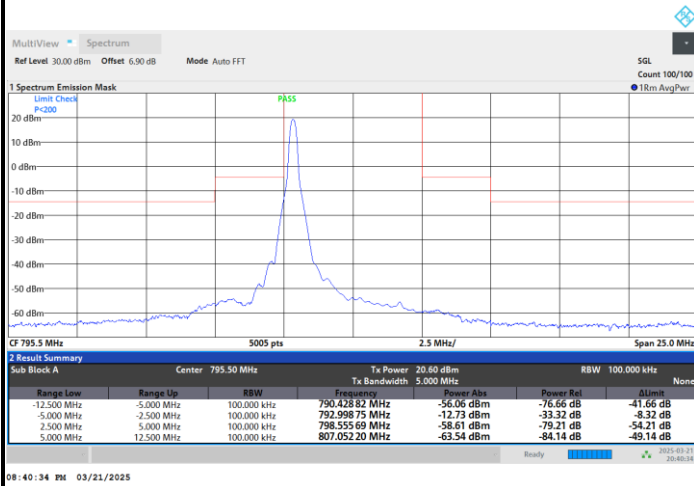




FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

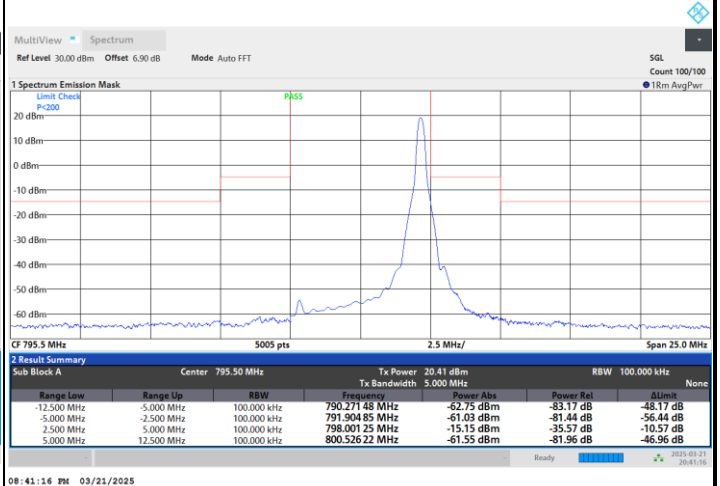
Highest Channel

1RB0



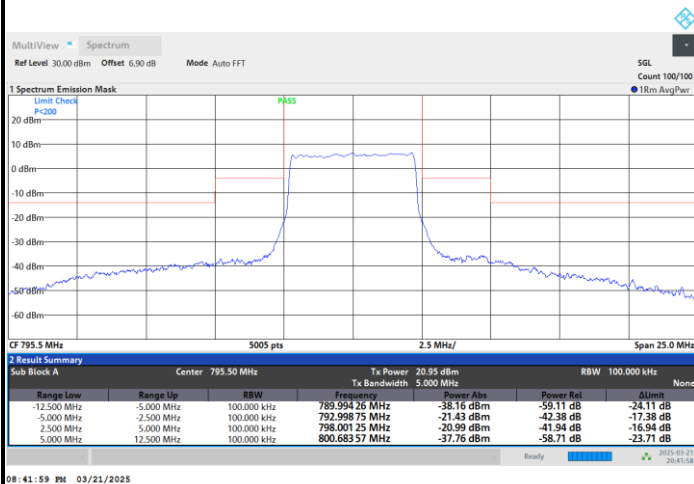
08:40:34 PM 03/21/2025

1RBmax



08:41:16 PM 03/21/2025

Full RB



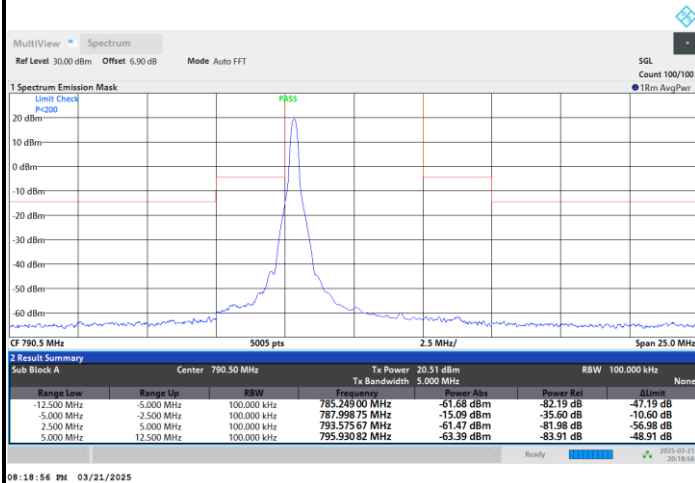
08:41:59 PM 03/21/2025



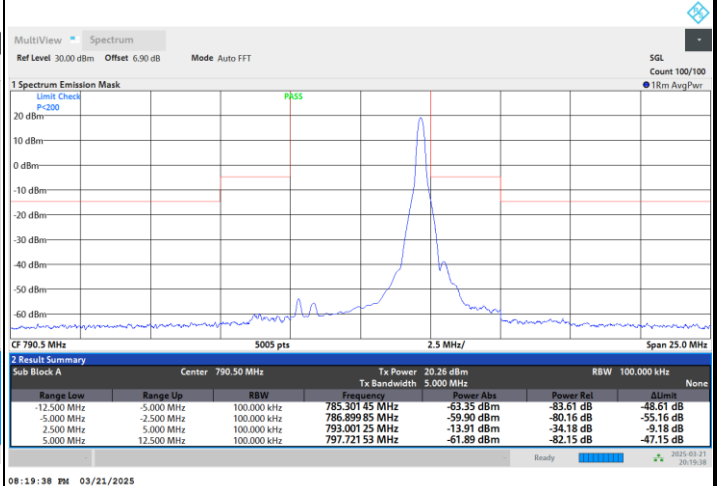
FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

Lowest Channel

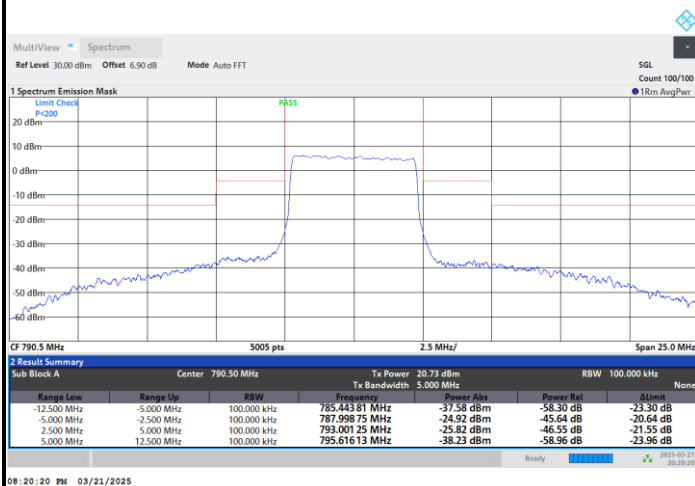
1RB0



1RBmax



Full RB

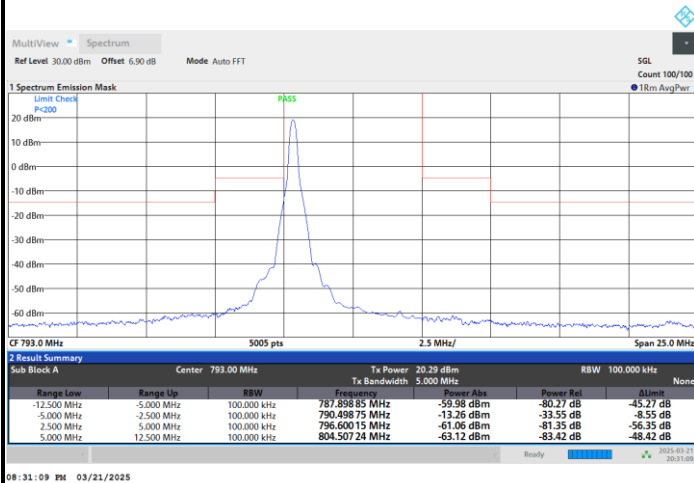




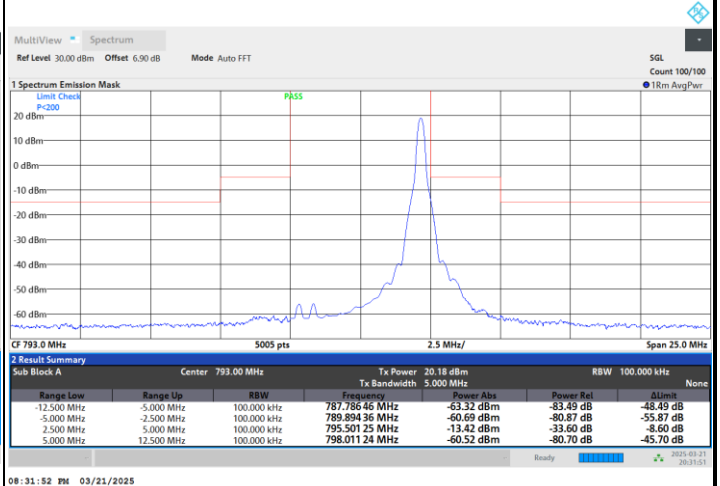
FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

Middle Channel

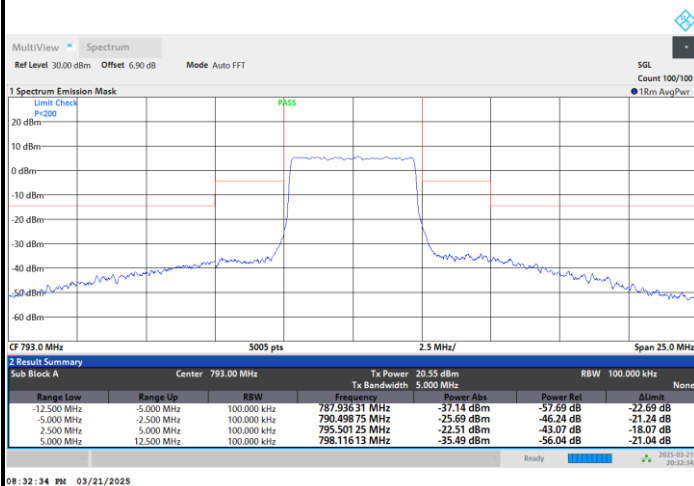
1RB0



1RBmax



Full RB

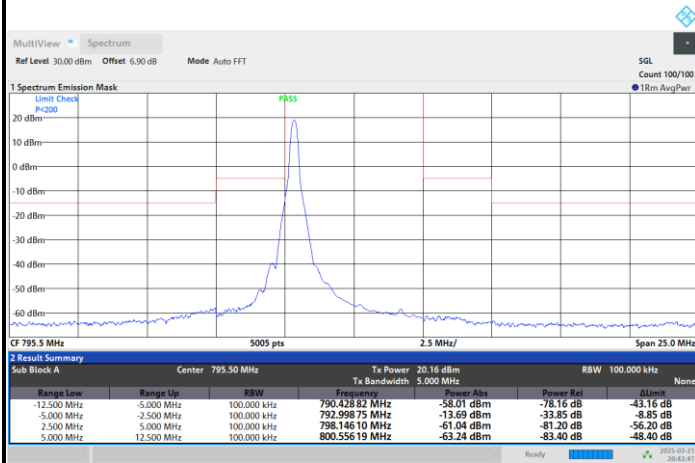




FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

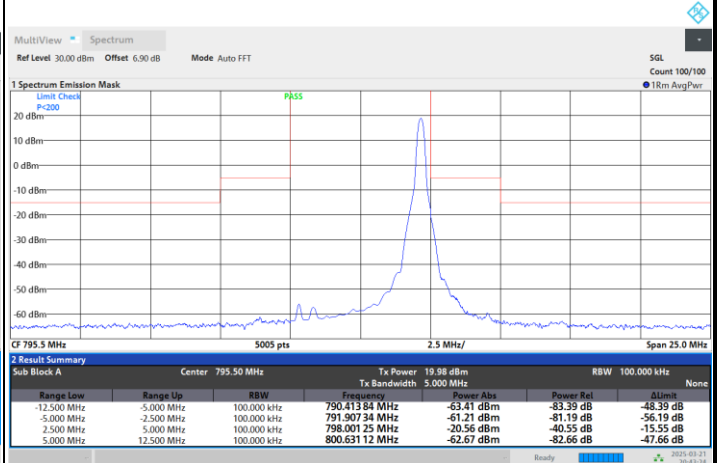
Highest Channel

1RB0



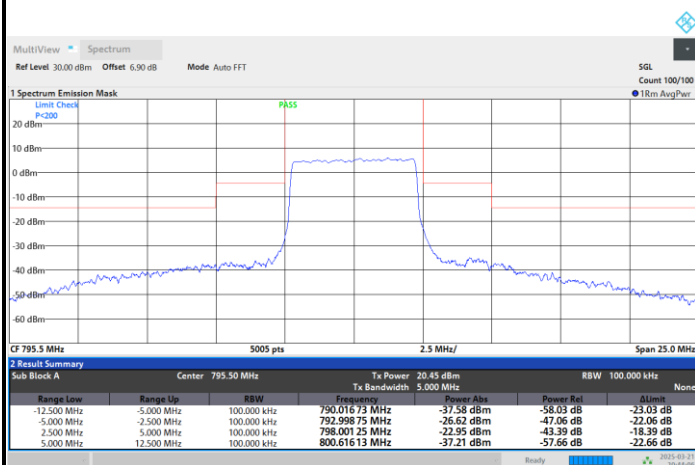
08:42:42 PM 03/21/2025

1RBmax



08:43:24 PM 03/21/2025

Full RB



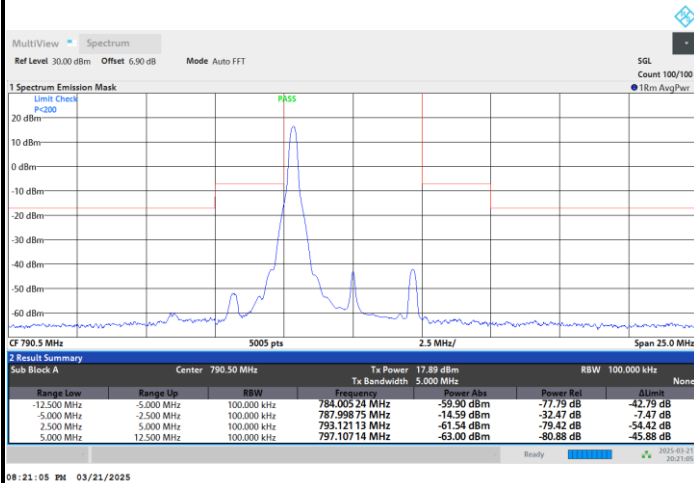
08:44:06 PM 03/21/2025



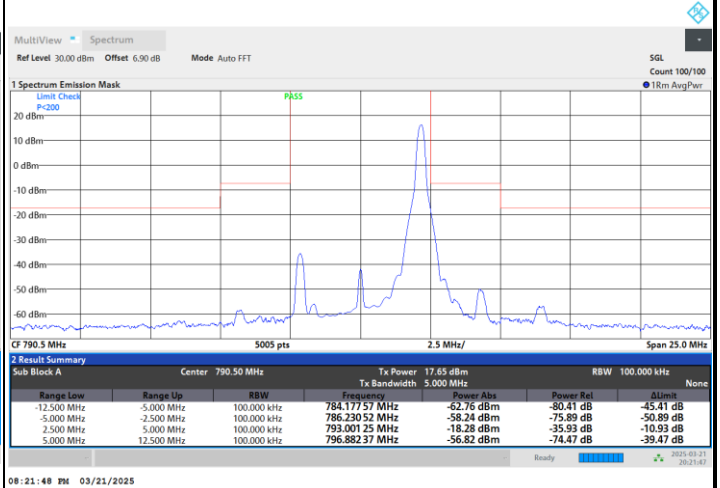
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Lowest Channel

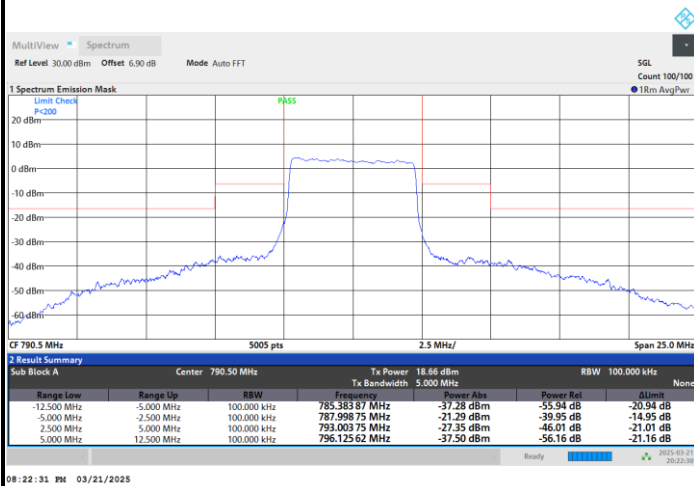
1RB0



1RBmax



Full RB

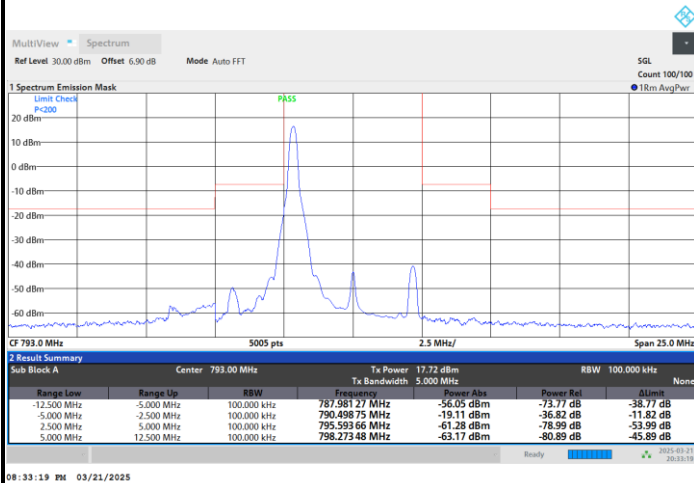




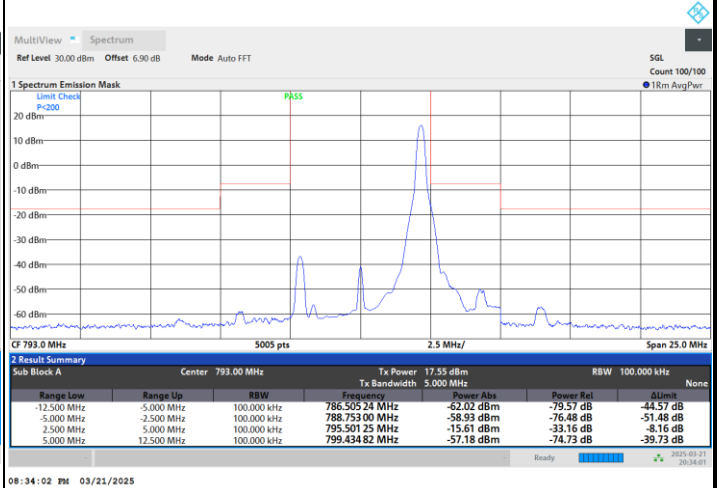
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Middle Channel

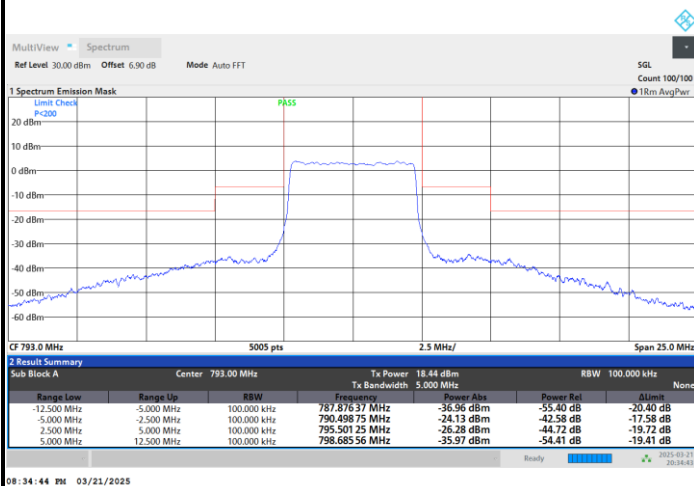
1RB0



1RBmax



Full RB

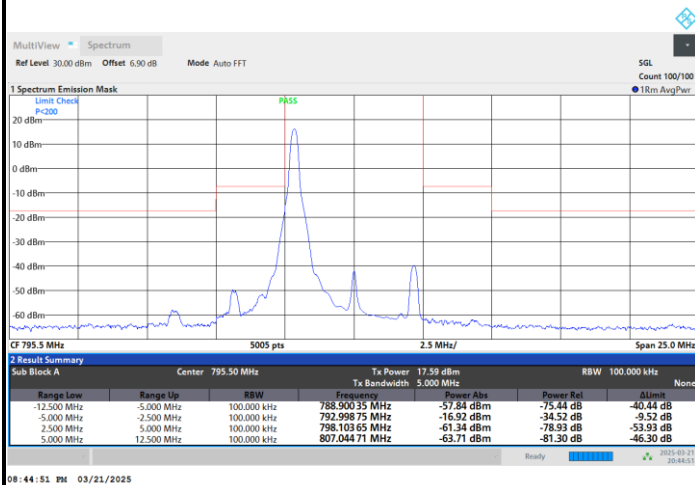




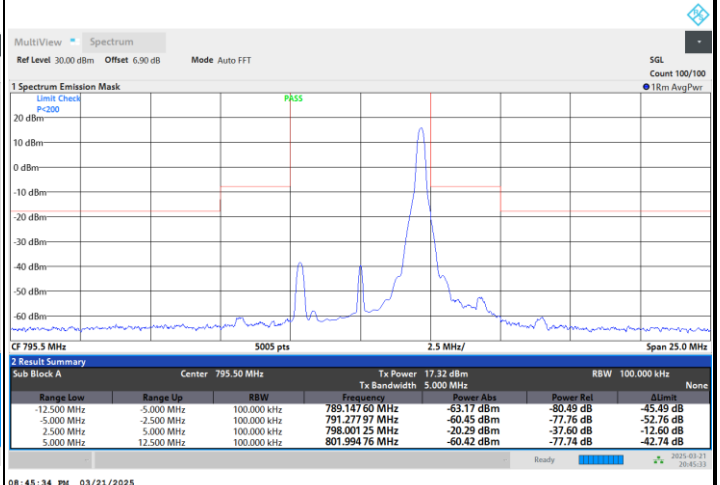
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Highest Channel

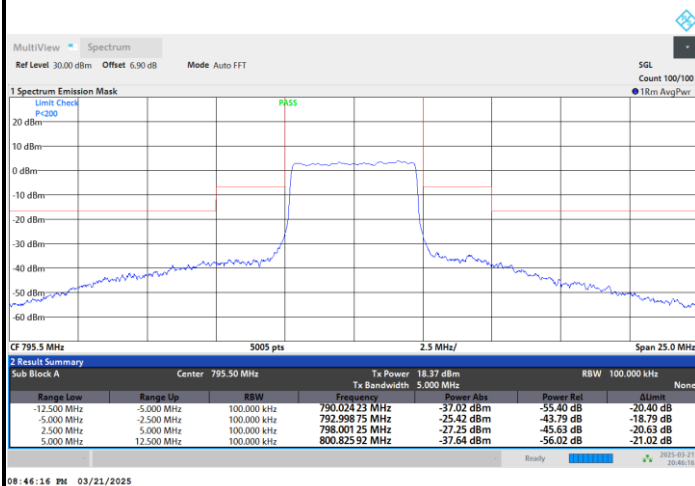
1RB0



1RBmax



Full RB

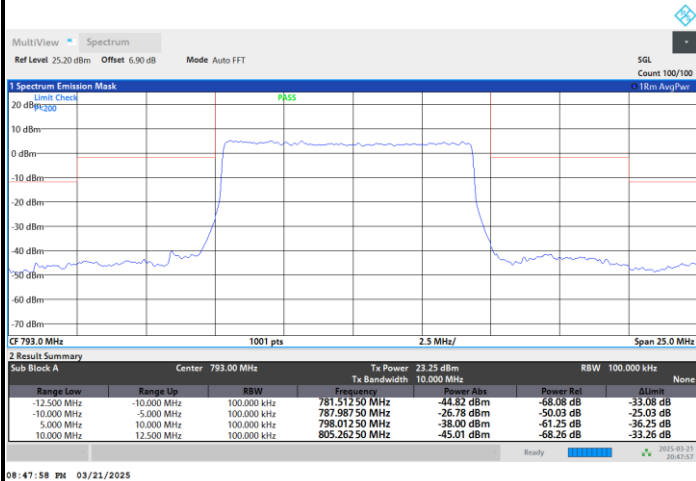




FR1 n14 / 10MHz / DFT-S OFDM / BPSK

Middle Channel

Full RB

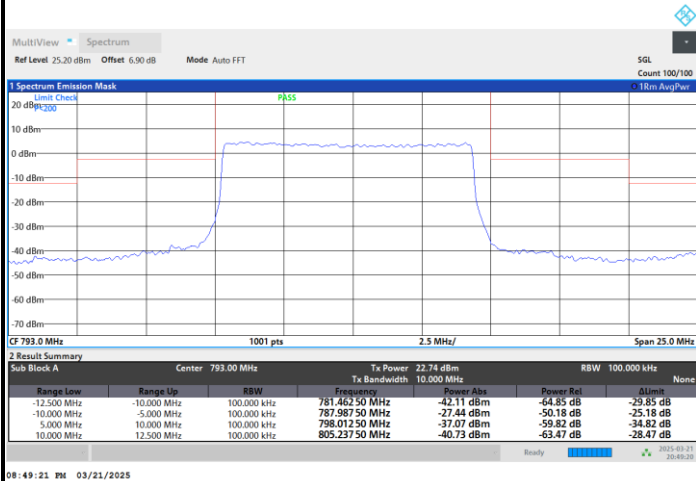




FR1 n14 / 10MHz / DFT-S OFDM / QPSK

Middle Channel

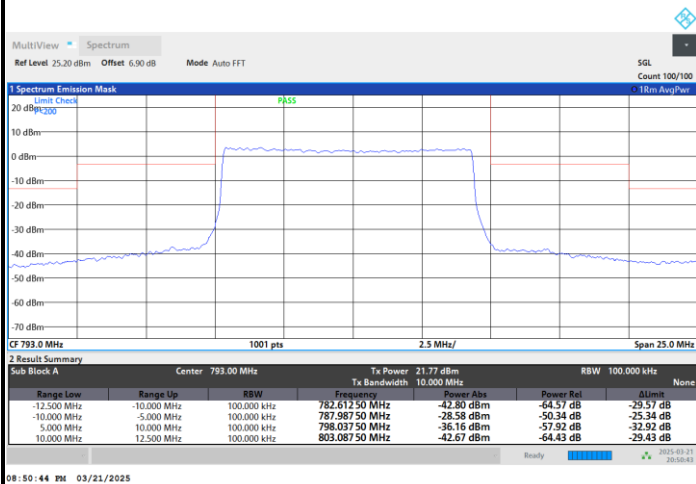
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

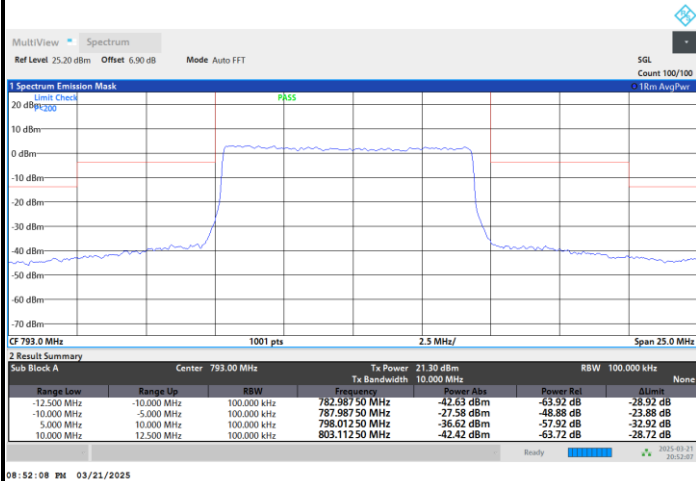




FR1 n14 / 10MHz / DFT-S OFDM / 64QAM

Middle Channel

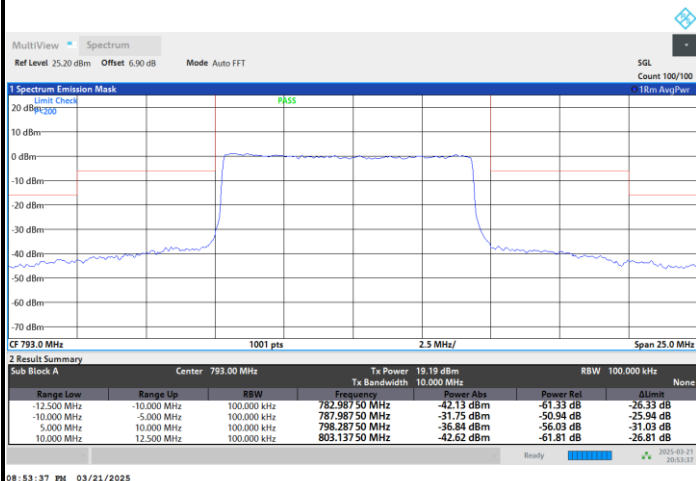
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / 256QAM

Middle Channel

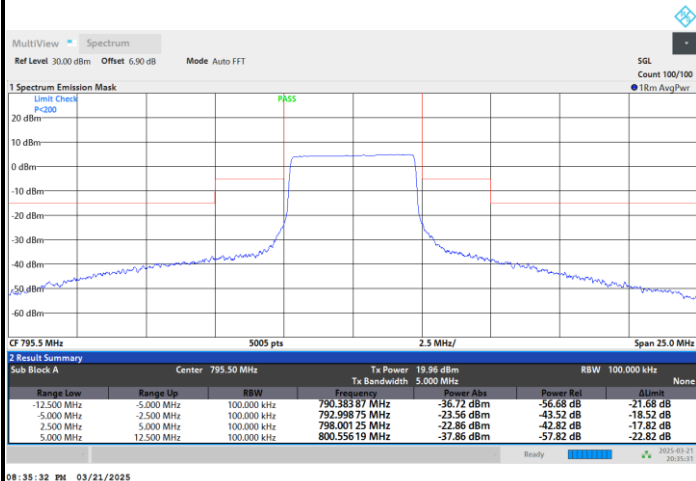
Full RB





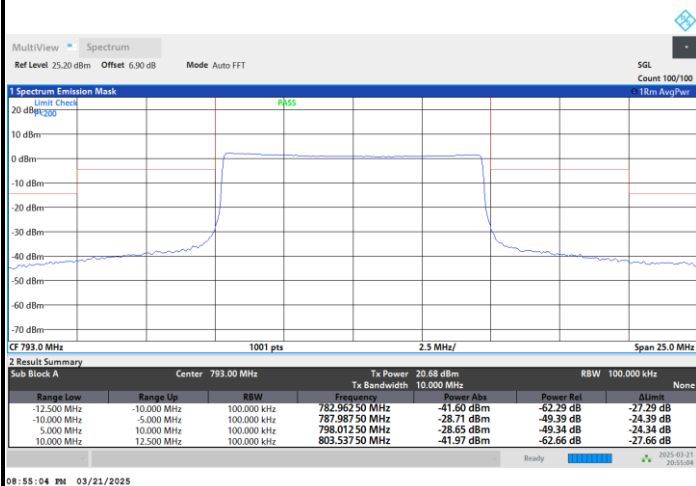
FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB

Highest Channel



FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB

Middle Channel

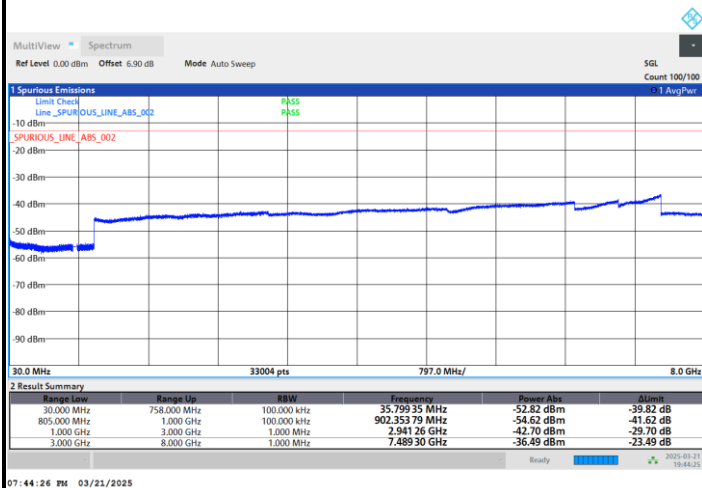




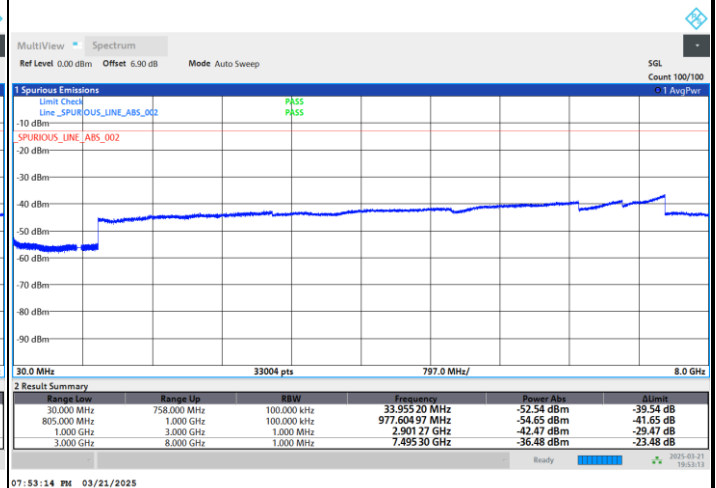
Conducted Spurious Emission

FR1 n14 / 5MHz / DFT-S OFDM / QPSK / 1RB1

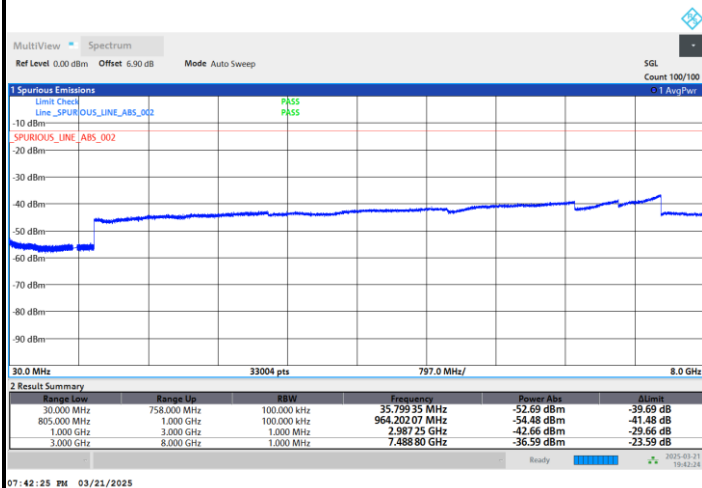
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n14 (PI/2 BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0011	

Note:

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

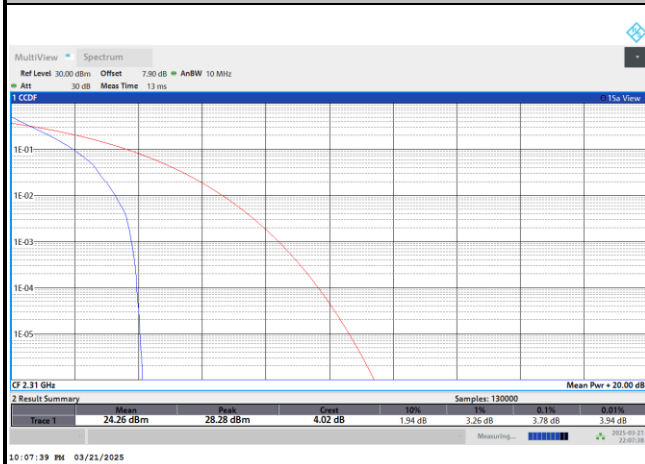
**FR1 n30****Peak-to-Average Ratio**

Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.78	4.50	5.46	5.84	PASS
Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.44				PASS

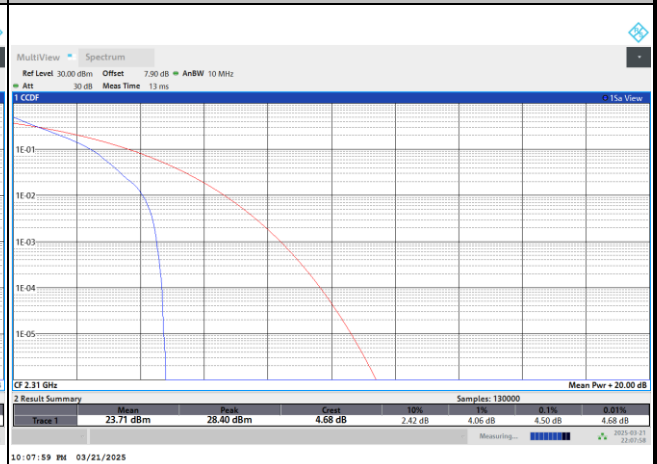


FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

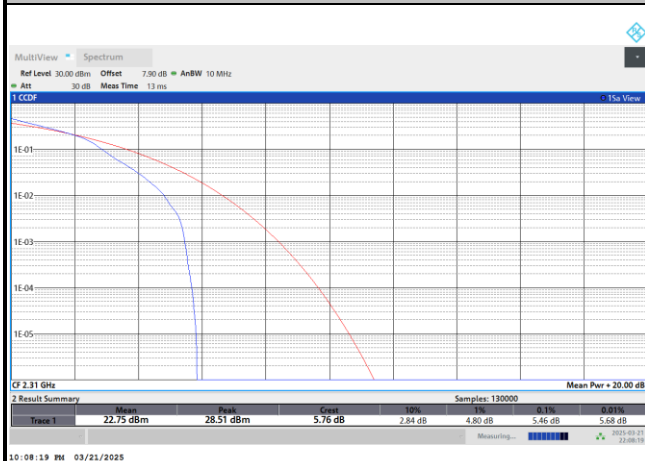
PI/2 BPSK



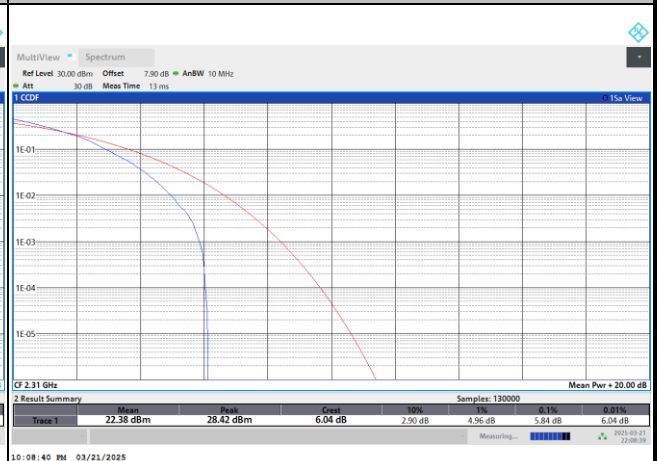
QPSK



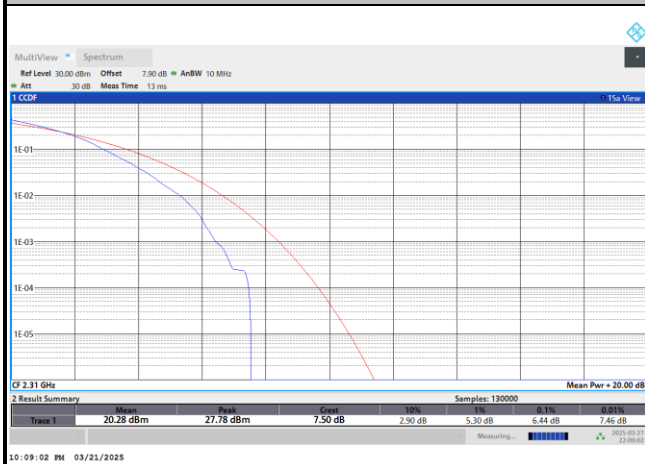
16QAM



64QAM



256QAM



**EIRP Power Density**

Mode	FR1 n30/ Conducted Power Density (dBm/5MHz)				
BW	5MHz	10M			
Mod.	PI/2 BPSK	PI/2 BPSK			
RB Size	1RB1	1RB1			
Lowest CH	24.49	-			
Middle CH	24.48	24.46			
Highest CH	24.46	-			

Mode	FR1 n30/ Conducted Power Density (dBm/5MHz)			
BW	5MHz		10M	10M
Mod.	QPSK	16QAM	QPSK	16QAM
RB Size	1RB1	1RB1	1RB1	1RB1
Lowest CH	24.48	24.21	-	-
Middle CH	24.43	24.35	24.47	24.01
Highest CH	24.44	24.31	-	-
Mod.	64QAM	256QAM	64QAM	256QAM
RB Size	1RB1	1RB1	1RB1	1RB1
Lowest CH	22.82	20.27	-	-
Middle CH	22.80	20.27	22.60	20.16
Highest CH	22.81	20.30	-	-



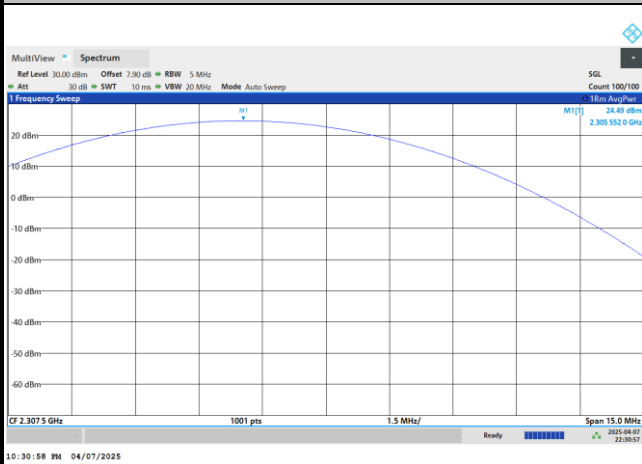
Mode	FR1 n30/ EIRP Power Density (dBm/5MHz)				
BW	5MHz	10M			
Mod.	PI/2 BPSK	PI/2 BPSK			
RB Size	1RB1	1RB1			
Lowest CH	32.99	-			
Middle CH	32.98	32.46			
Highest CH	32.96	-			

Mode	FR1 n30/ EIRP Power Density (dBm/5MHz)			
BW	5MHz		10M	10M
Mod.	QPSK	16QAM	QPSK	16QAM
RB Size	1RB1	1RB1	1RB1	1RB1
Lowest CH	32.98	32.71		
Middle CH	32.93	32.85	32.97	32.51
Highest CH	32.94	32.81		
Mod.	64QAM	256QAM	64QAM	256QAM
RB Size	1RB1	1RB1	1RB1	1RB1
Lowest CH	31.32	28.77		
Middle CH	31.3	28.77	31.1	28.66
Highest CH	31.31	28.8		
Antenna Gain	8.5 dBi			
Limit	2W / 5MHz = 33dBm / 5MHz			
Result	Pass			

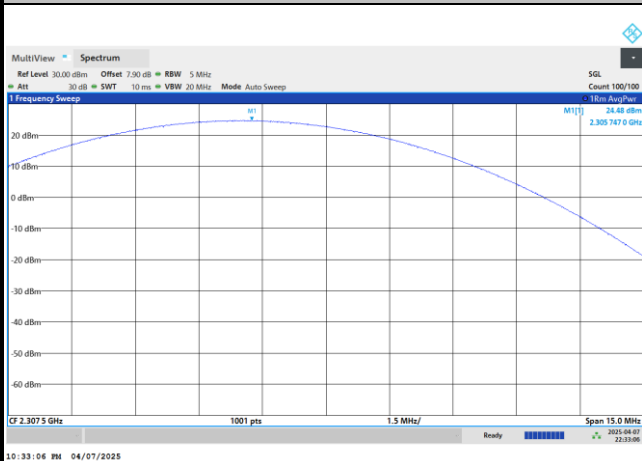


FR1 n30 / 5MHz / DFT-S OFDM / Lowest Channel / 1RB1

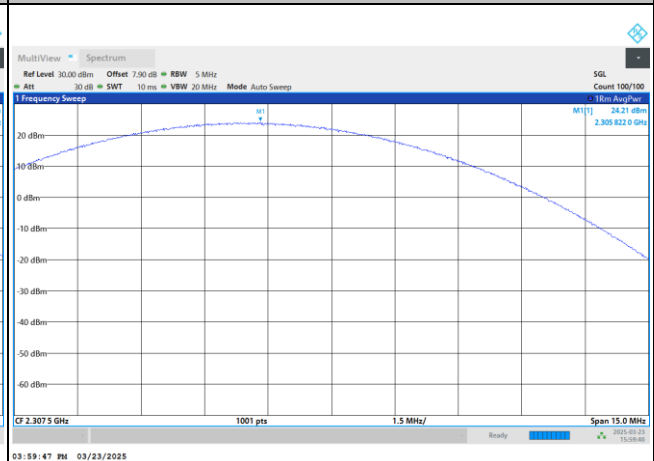
PI/2 BPSK



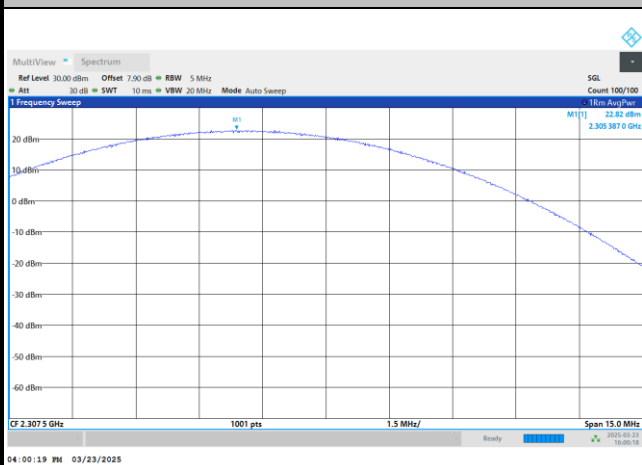
QPSK



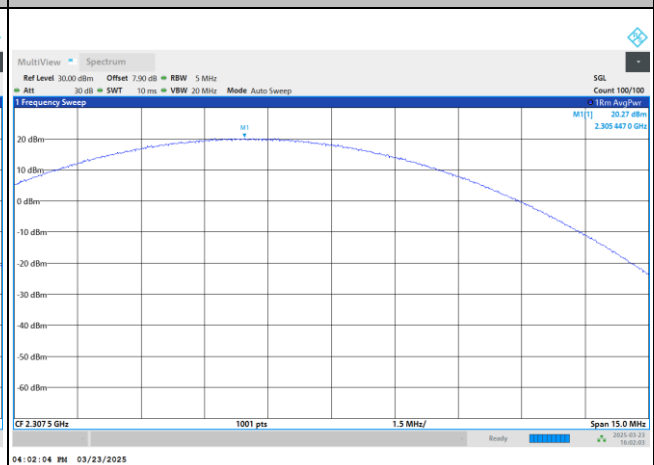
16QAM



64QAM



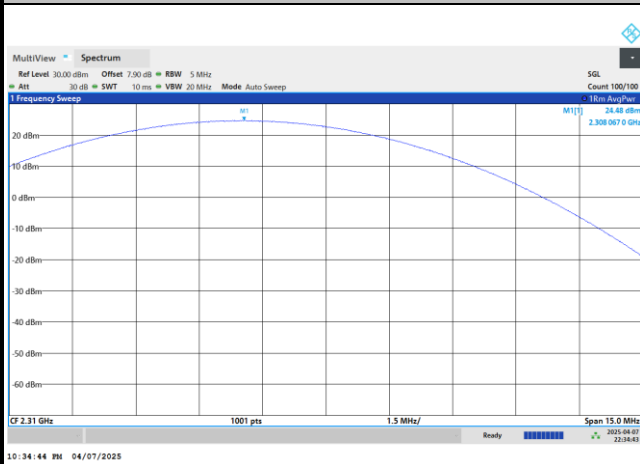
256QAM



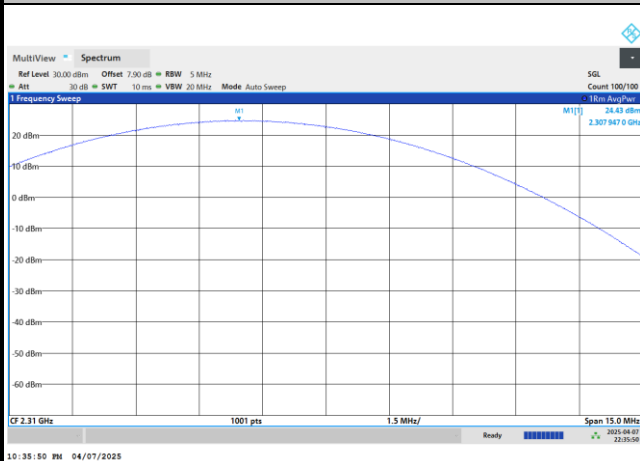


FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / 1RB1

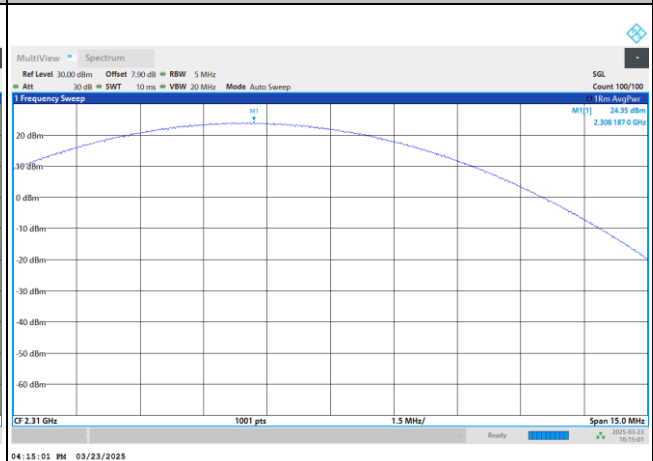
PI/2 BPSK



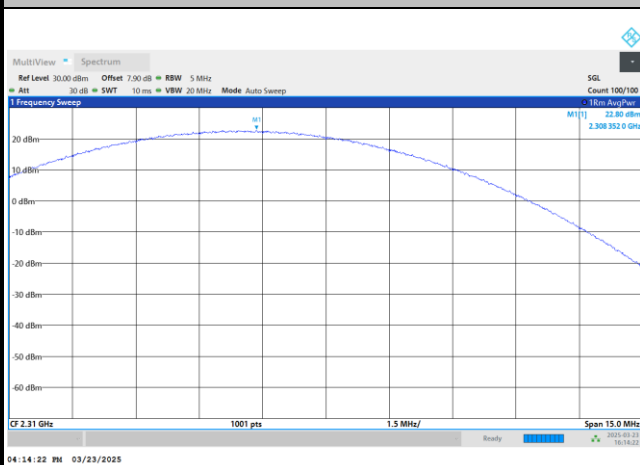
QPSK



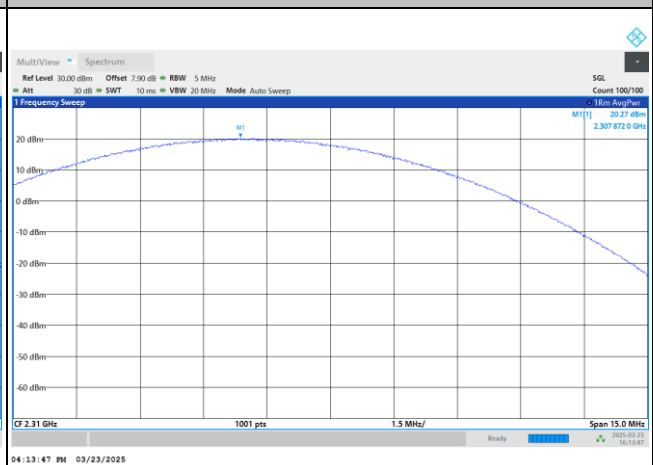
16QAM



64QAM



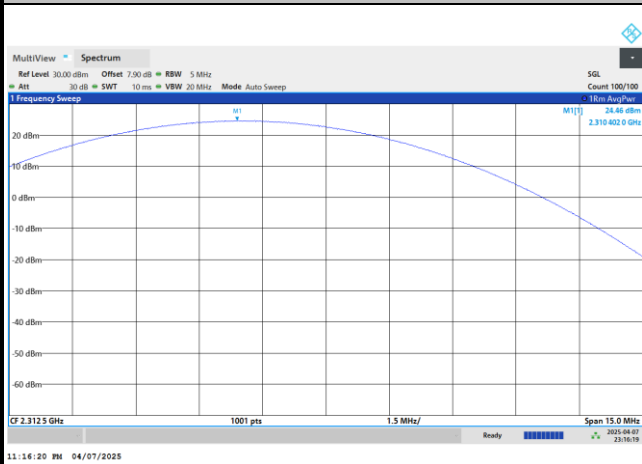
256QAM



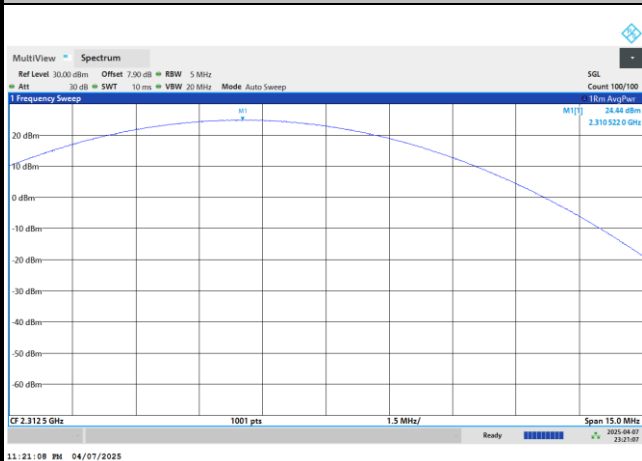


FR1 n30 / 5MHz / DFT-S OFDM / Highest Channel / 1RB1

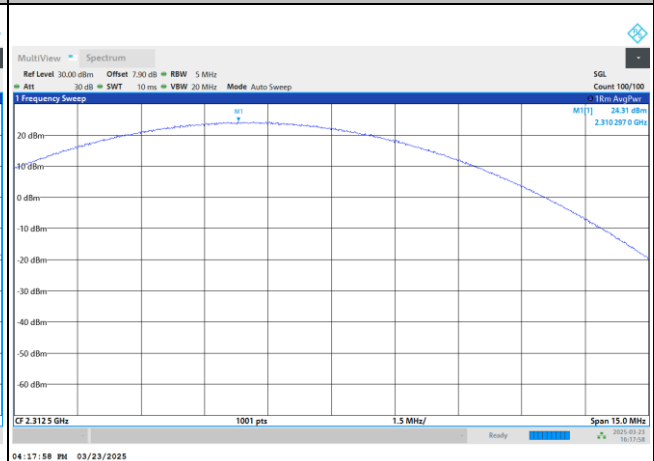
PI/2 BPSK



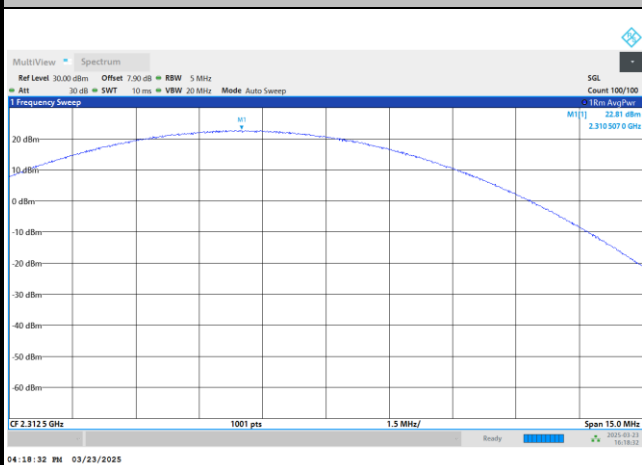
QPSK



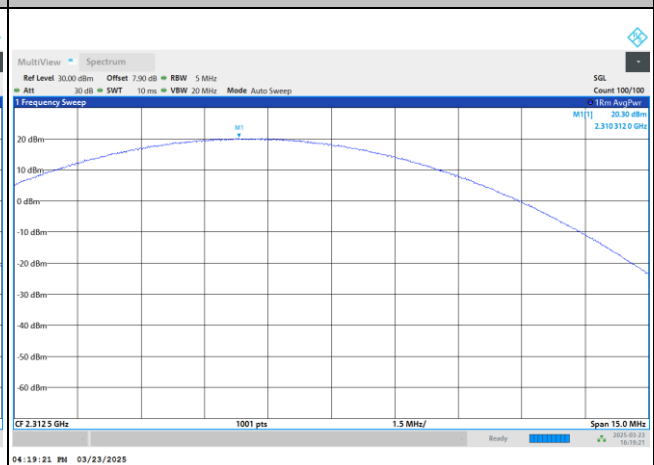
16QAM



64QAM



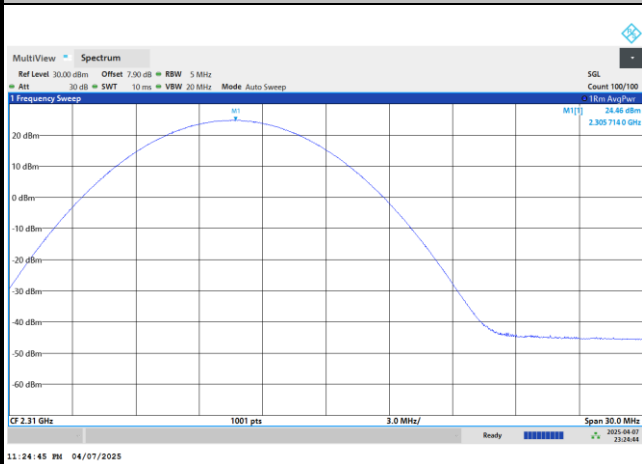
256QAM



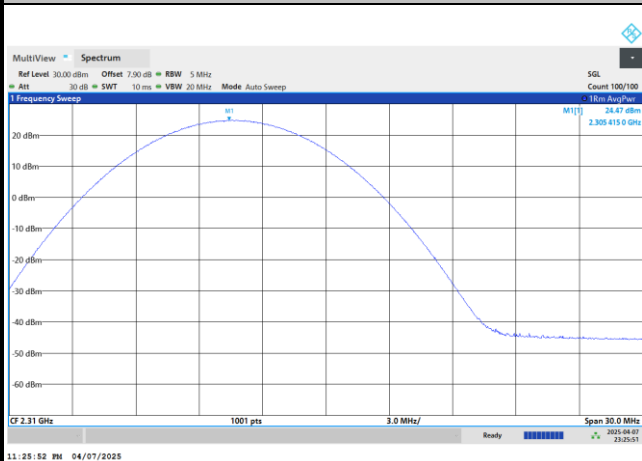


FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / 1RB1

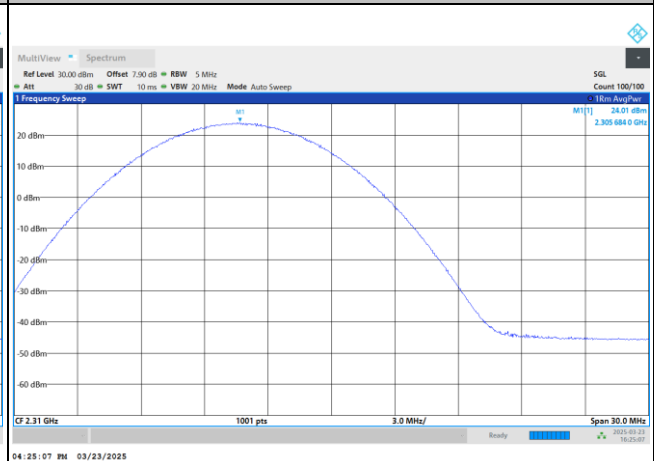
PI/2 BPSK



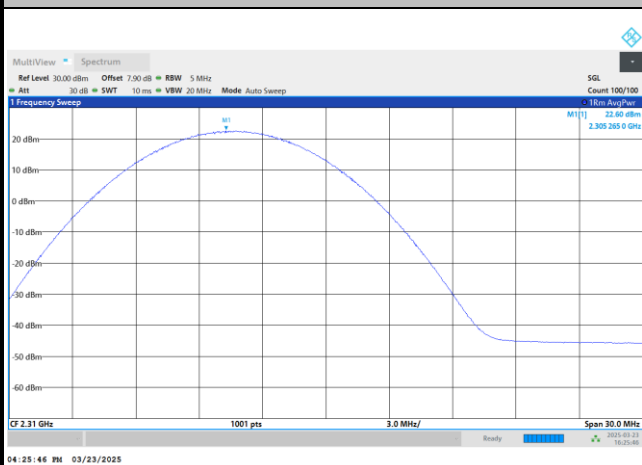
QPSK



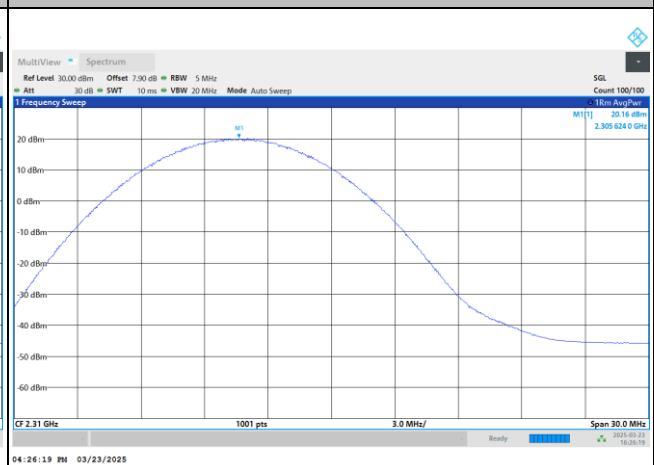
16QAM



64QAM



256QAM



**26dB Bandwidth**

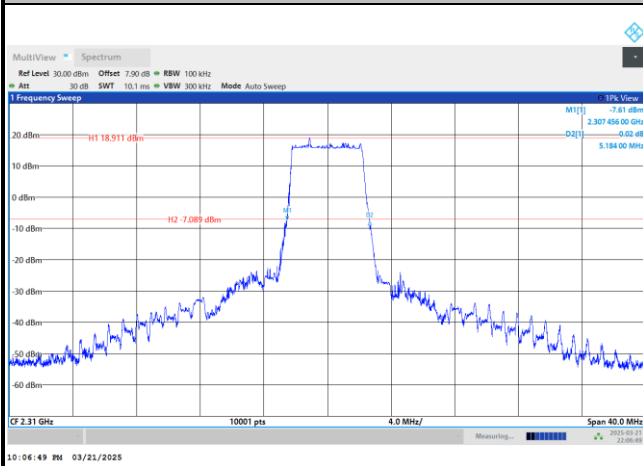
Mode	FR1 n30 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.18		10.33					

Mode	FR1 n30 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	5.25	5.28	10.37	10.98				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	5.24	5.30	10.34	10.35				



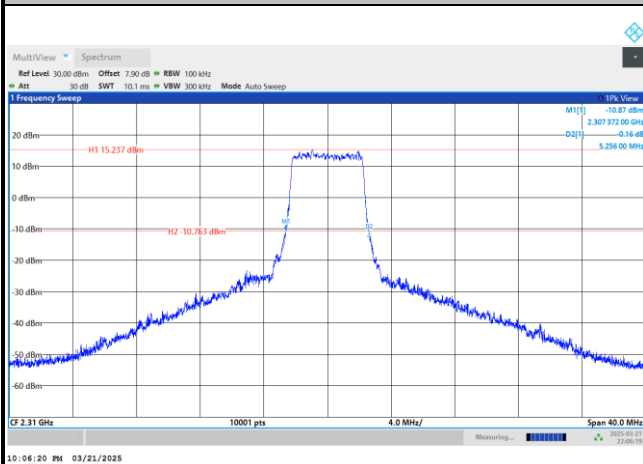
FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

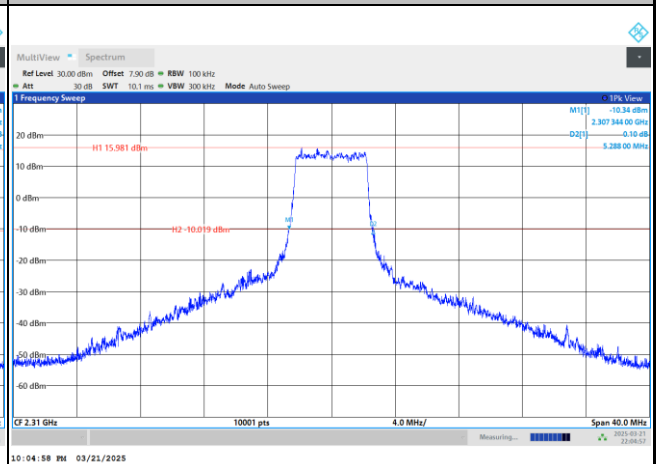


FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB

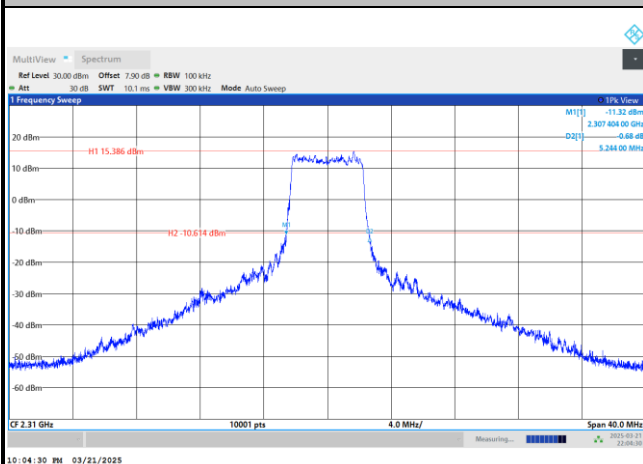
QPSK



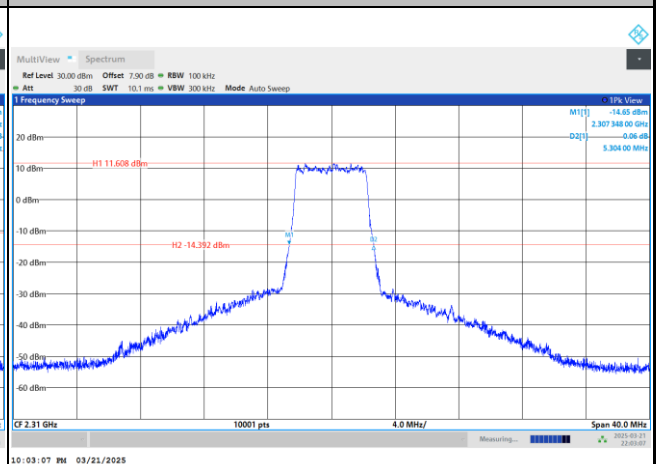
16QAM



64QAM



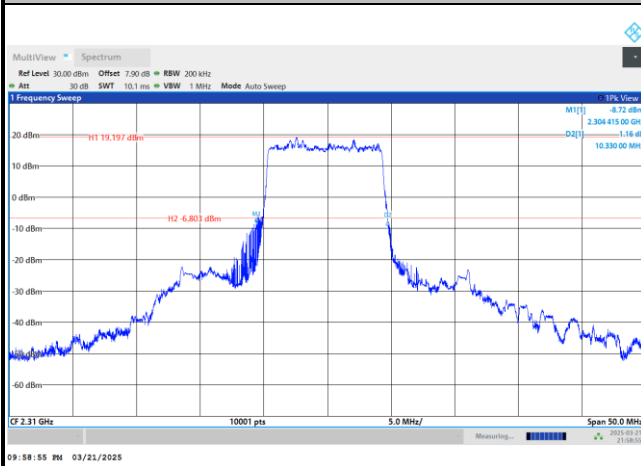
256QAM





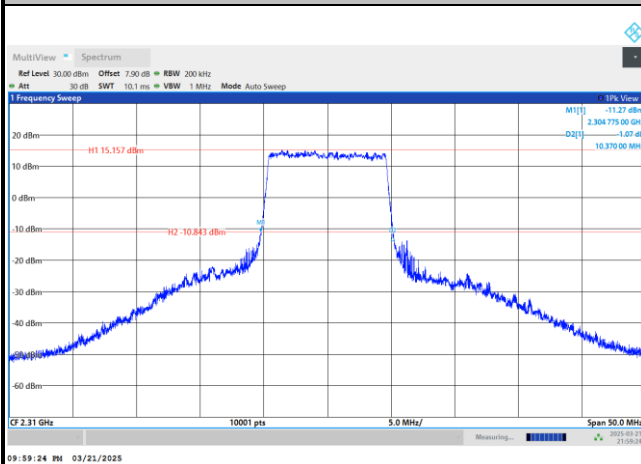
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

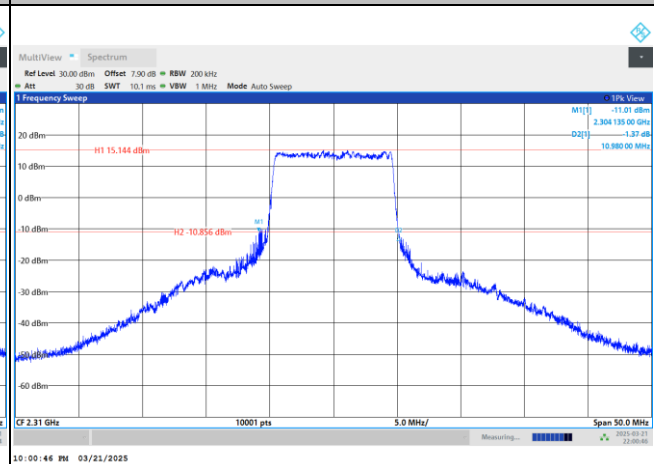


FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB

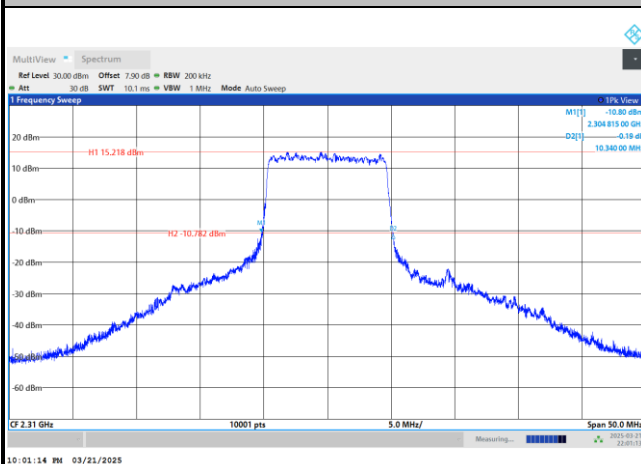
QPSK



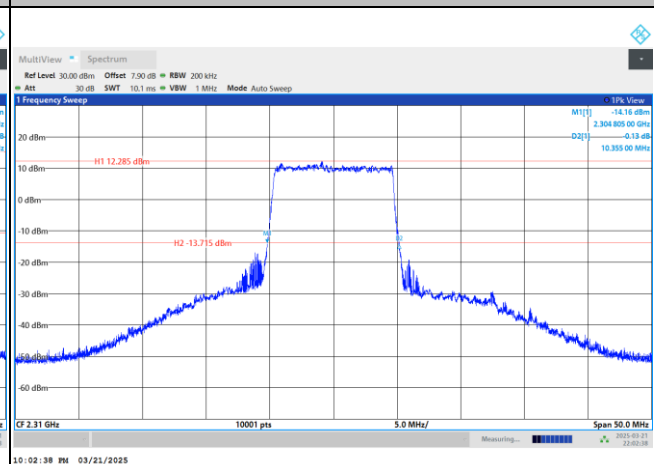
16QAM



64QAM



256QAM



**Occupied Bandwidth**

Mode	FR1 n30 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.50		8.98					

Mode	FR1 n30 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.52	4.53	9.32	9.34				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.53	4.51	9.31	9.35				