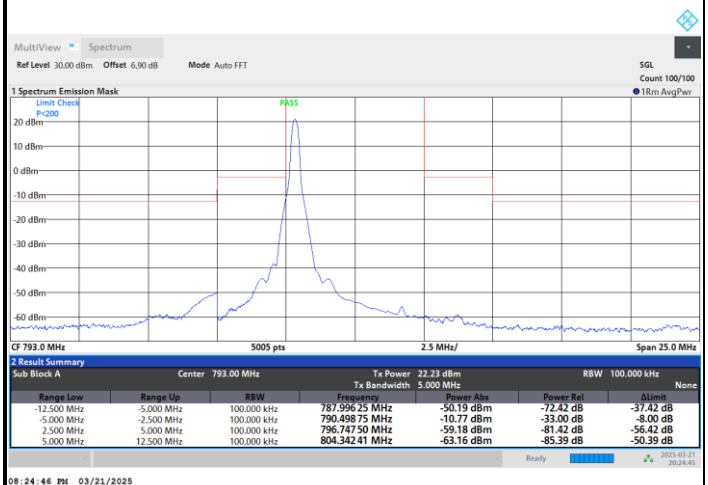
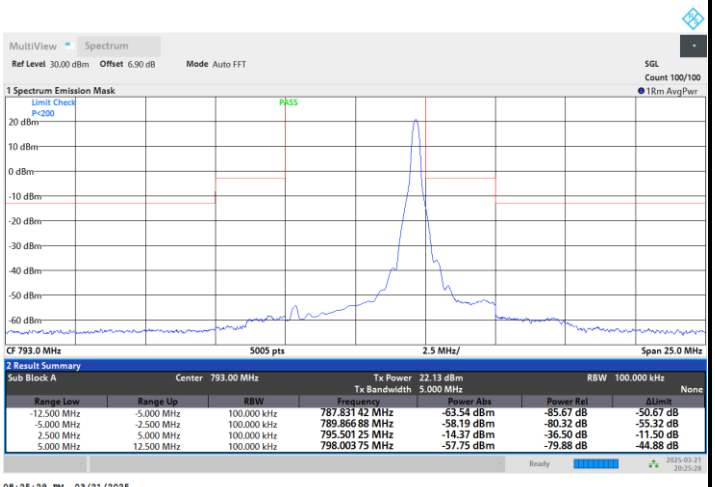
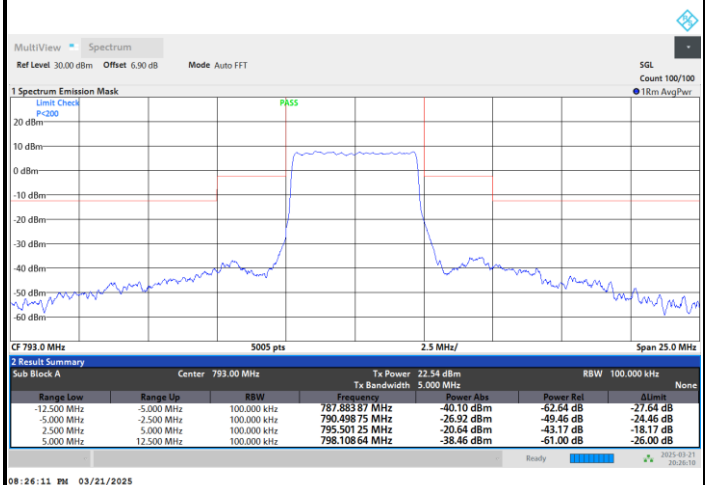
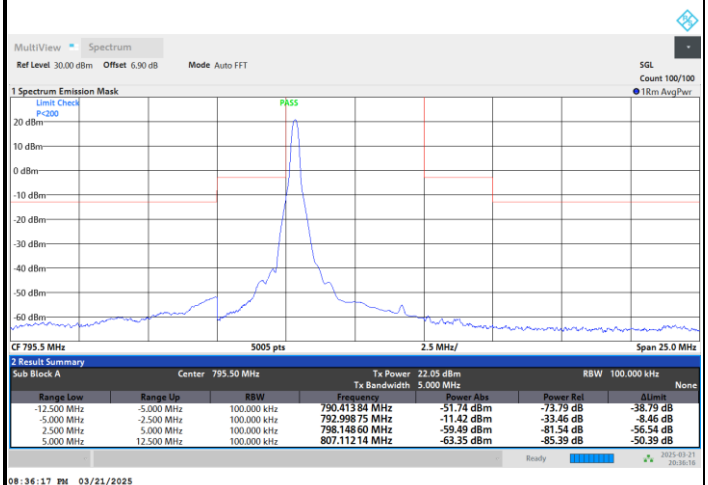
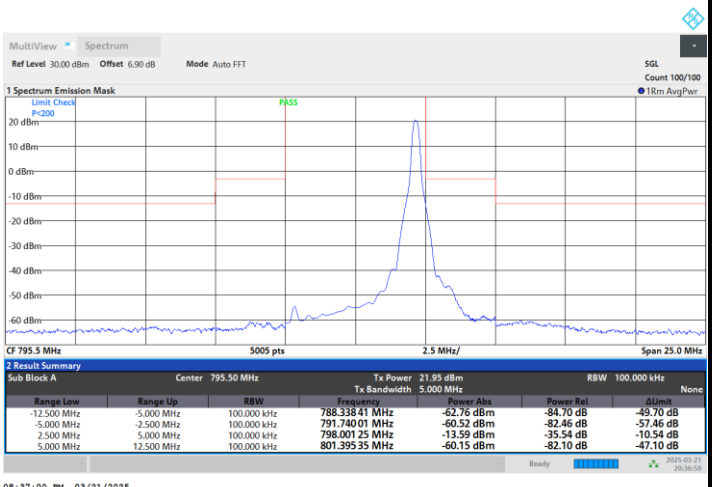
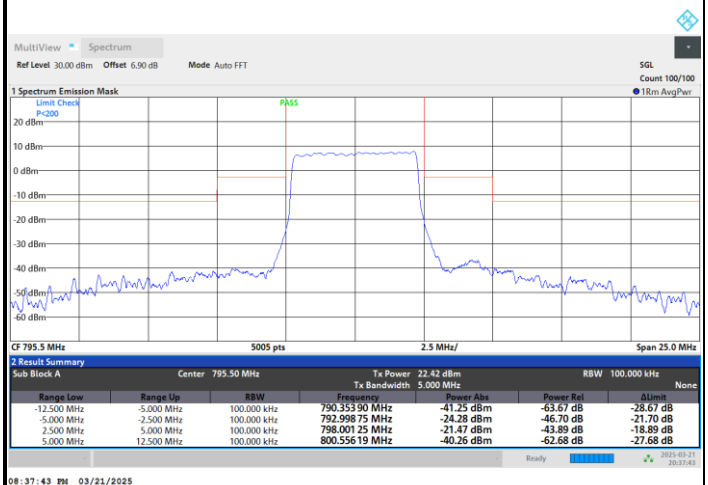
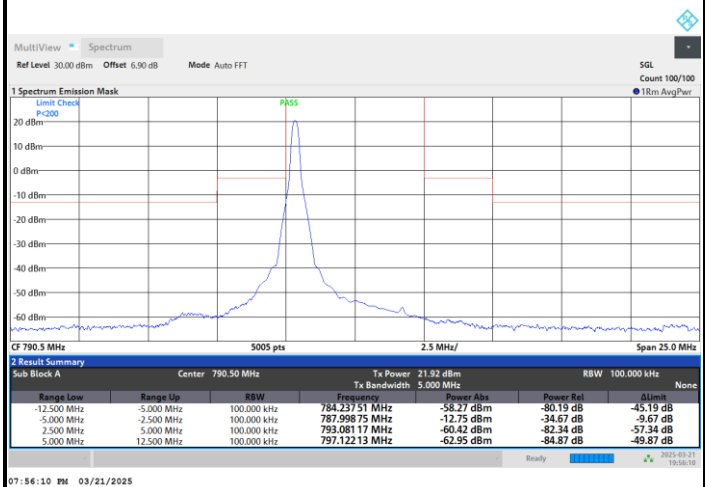
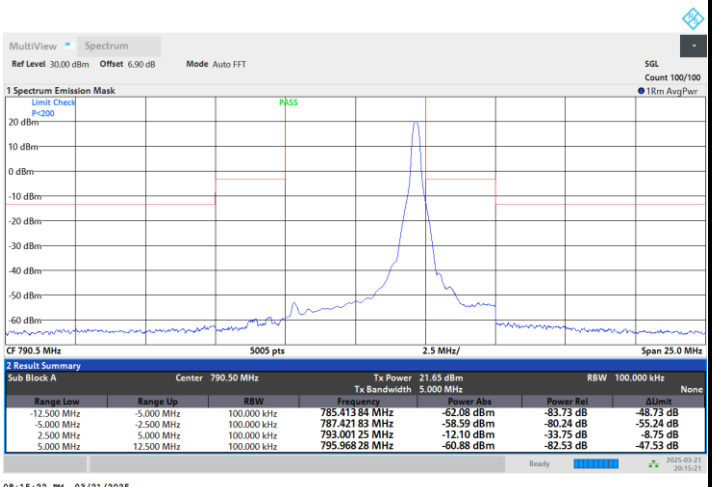
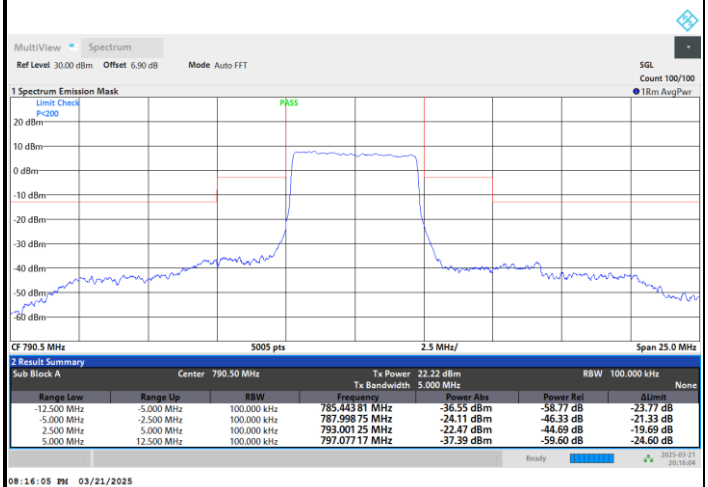
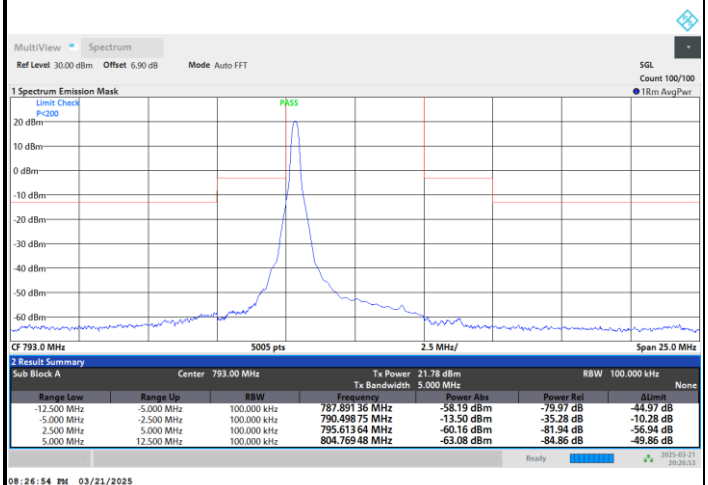
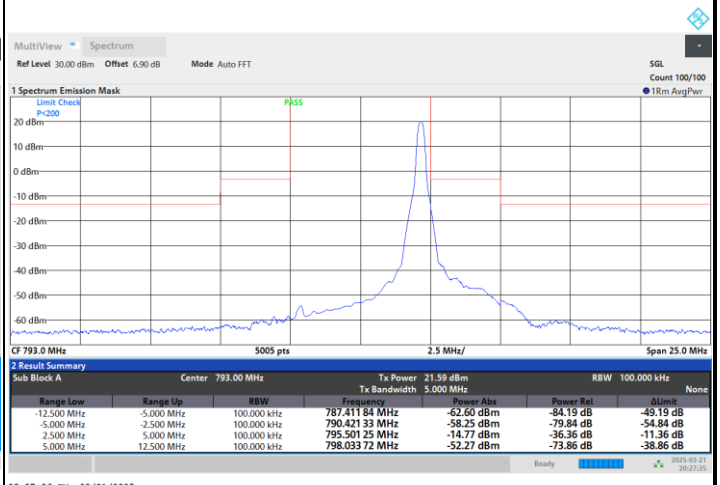
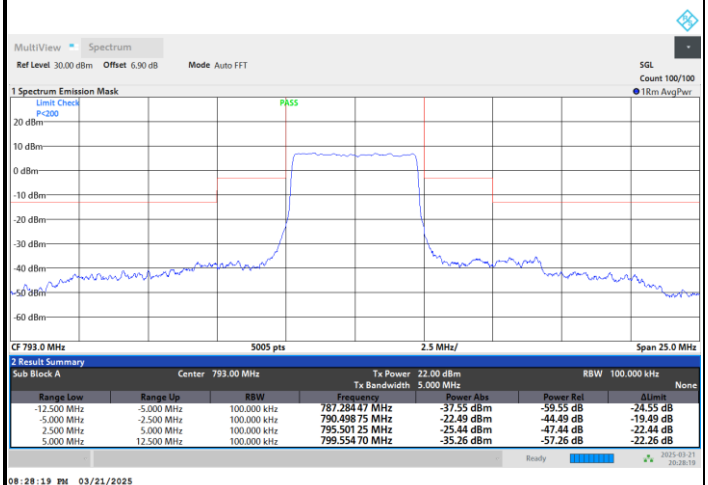
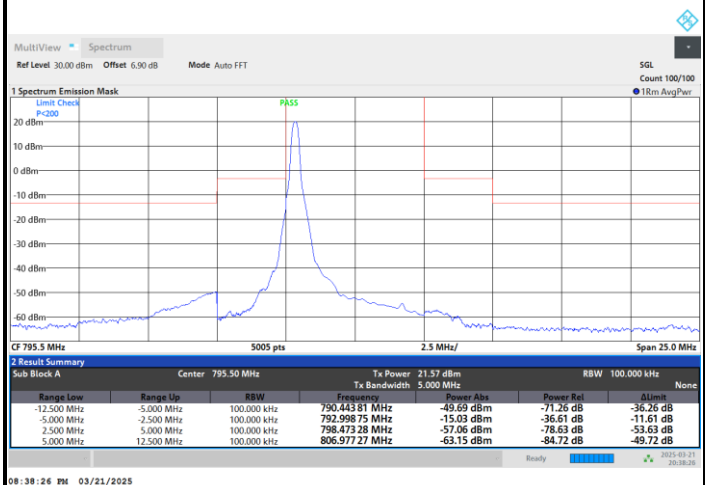
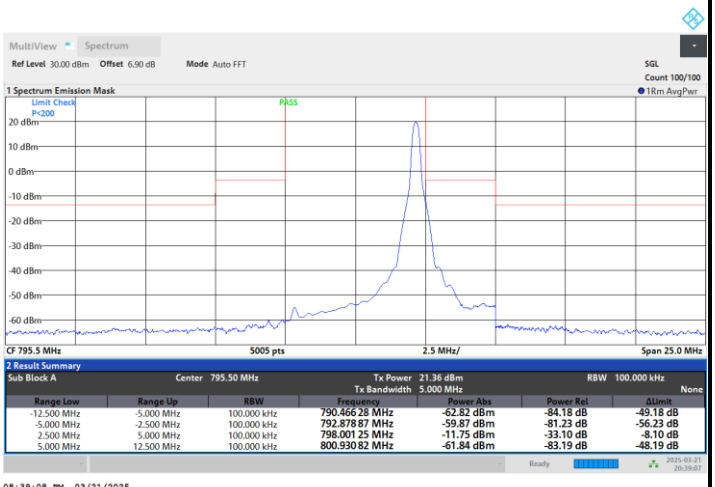
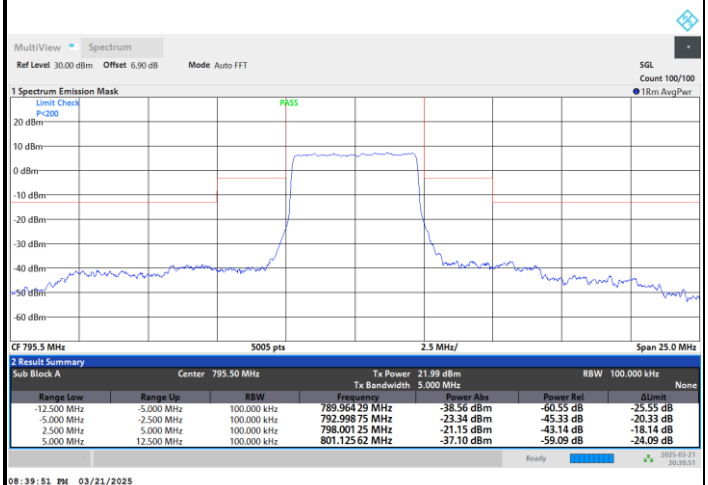
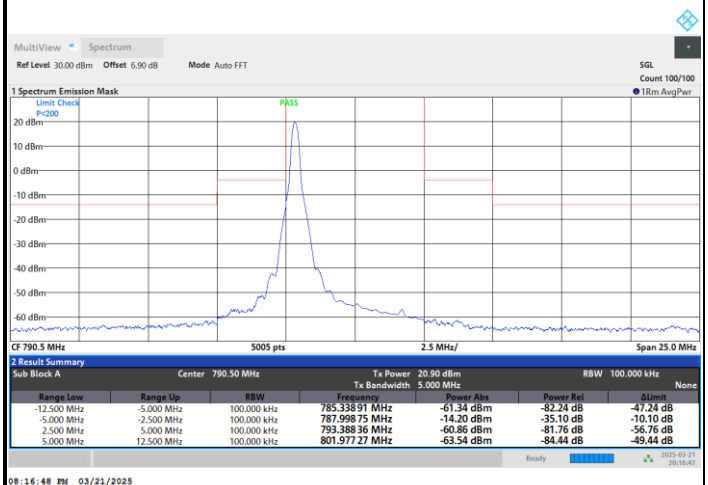
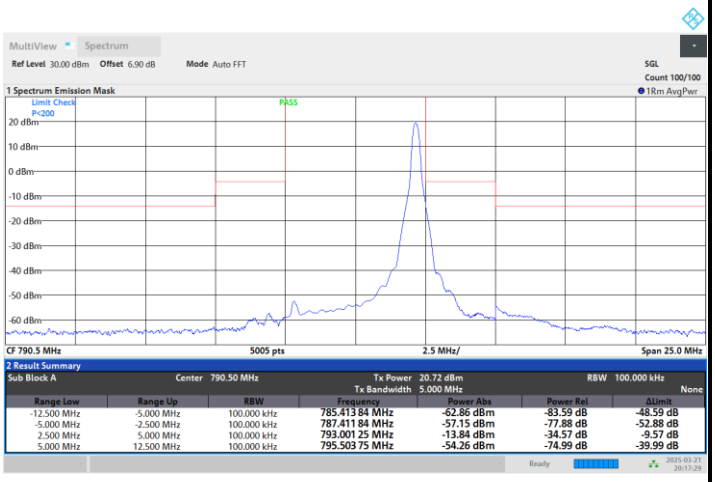
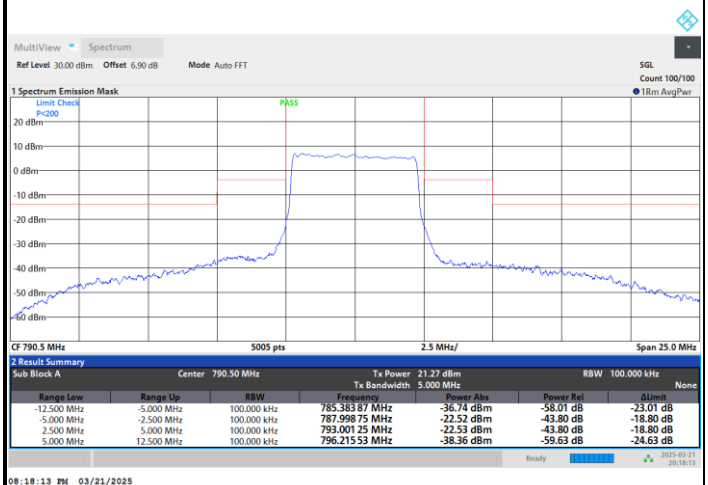
FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK	
Middle Channel	
1RB0	1RBmax
	
Full RB	
	

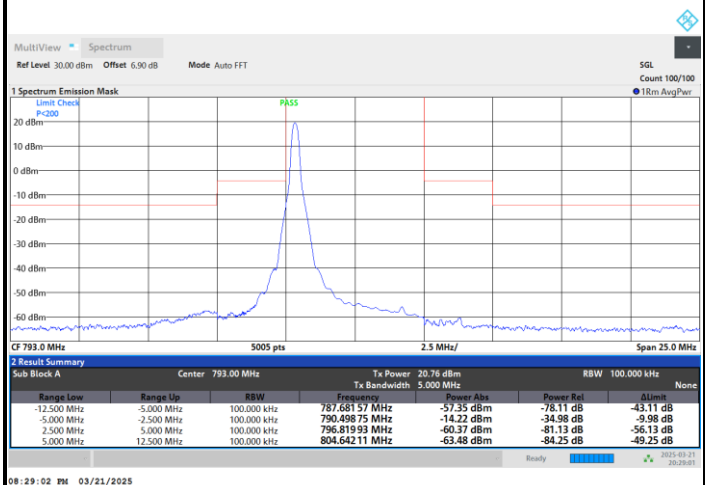
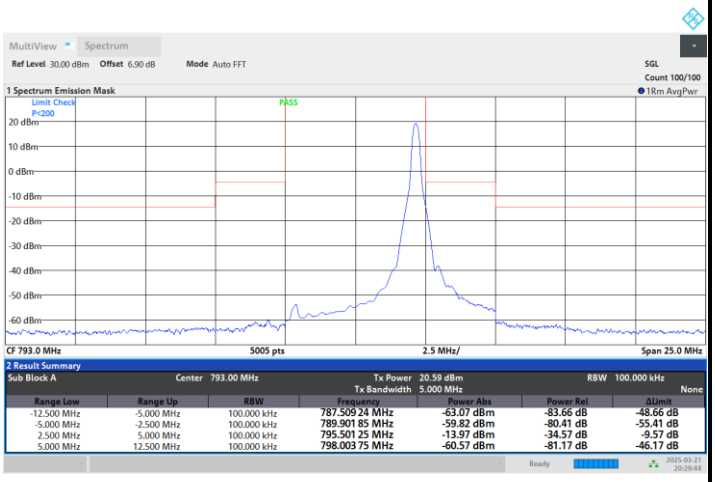
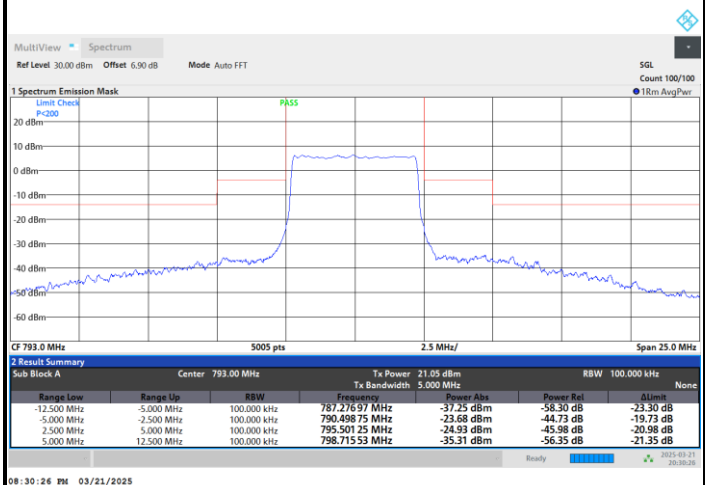
FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK	
Highest Channel	
1RB0	1RBmax
	
Full RB	
	

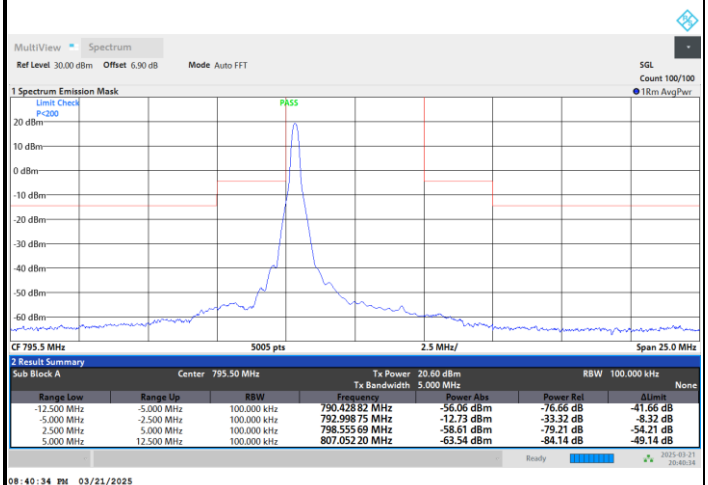
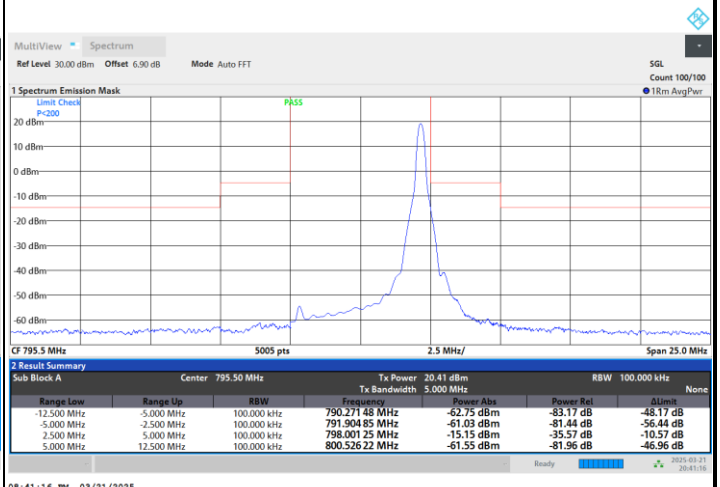
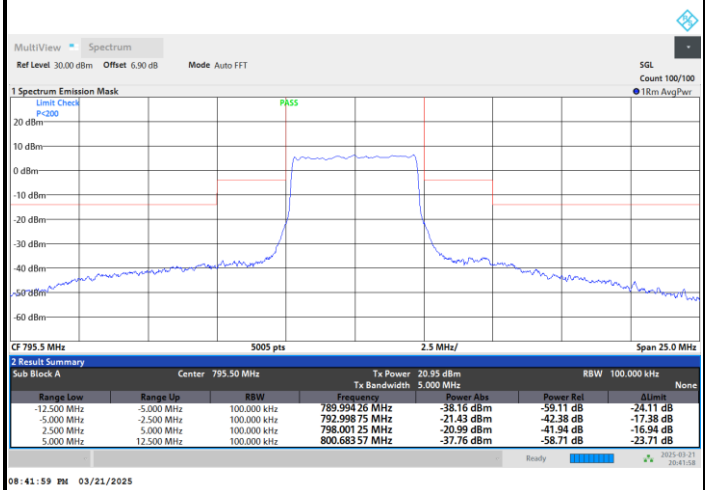
FR1 n14 / 5MHz / DFT-S OFDM / QPSK	
Lowest Channel	
1RB0	**1RBmax**
	
Full RB	
	

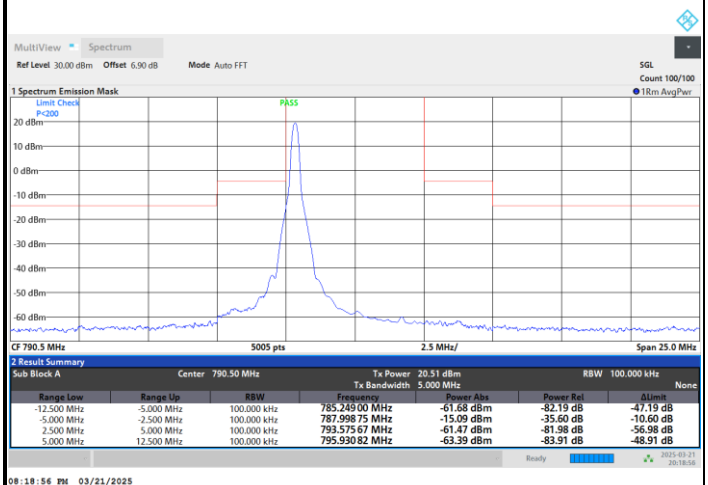
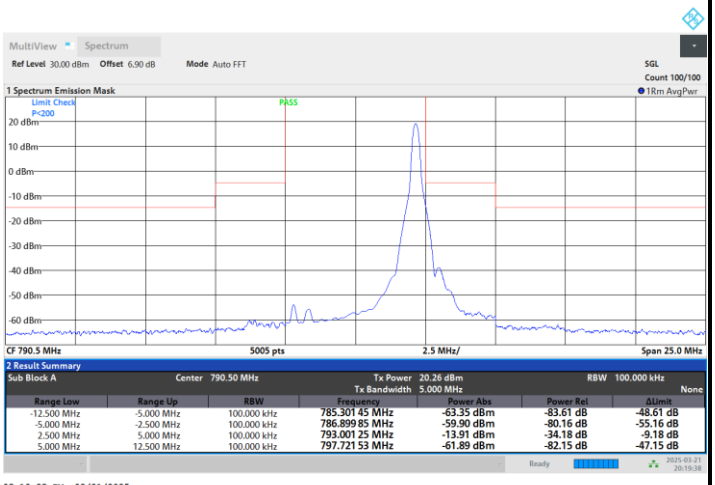
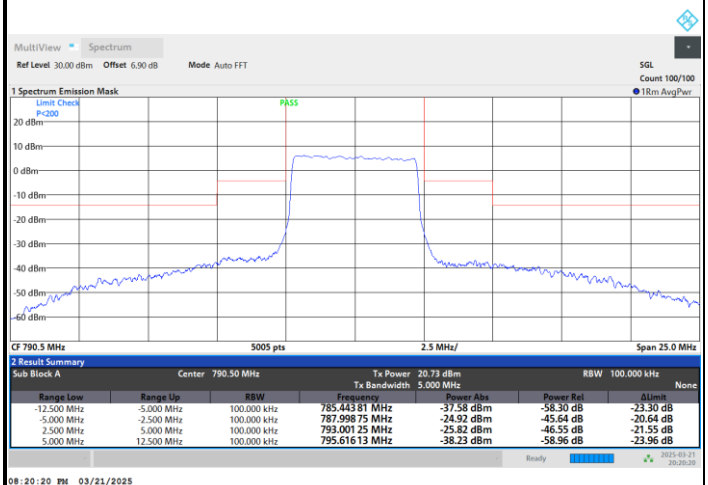
FR1 n14 / 5MHz / DFT-S OFDM / QPSK	
Middle Channel	
1RB0	1RBmax
	
Full RB	
	

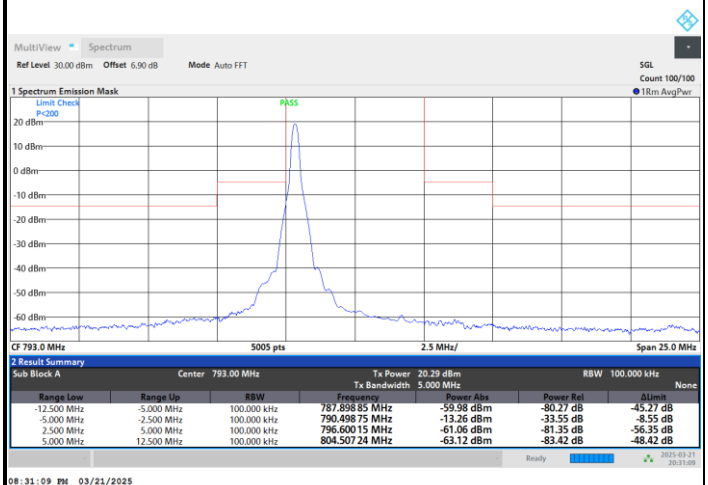
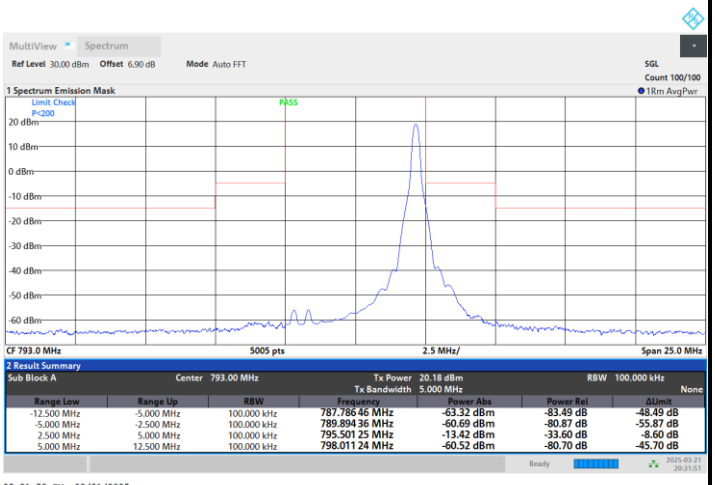
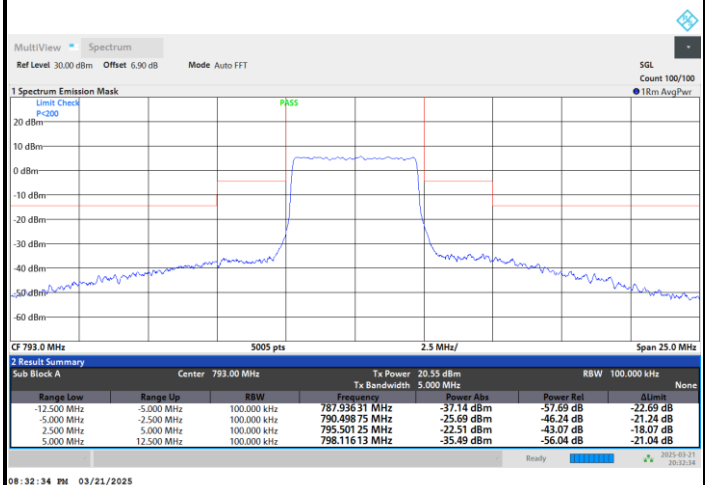
FR1 n14 / 5MHz / DFT-S OFDM / QPSK	
Highest Channel	
1RB0	**1RBmax**
	
Full RB	
	

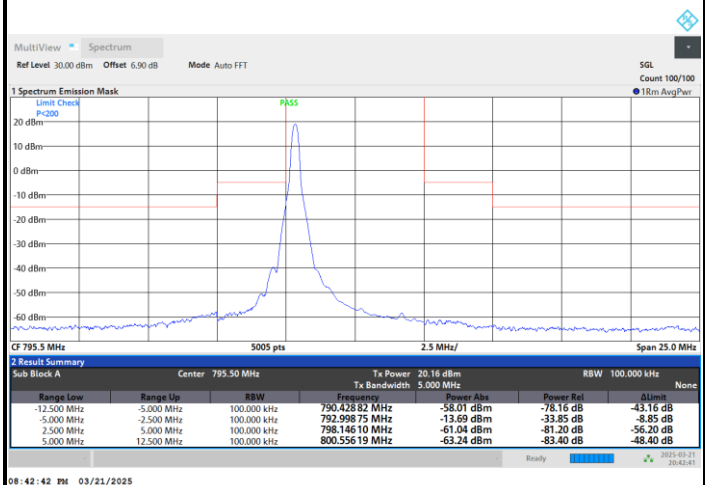
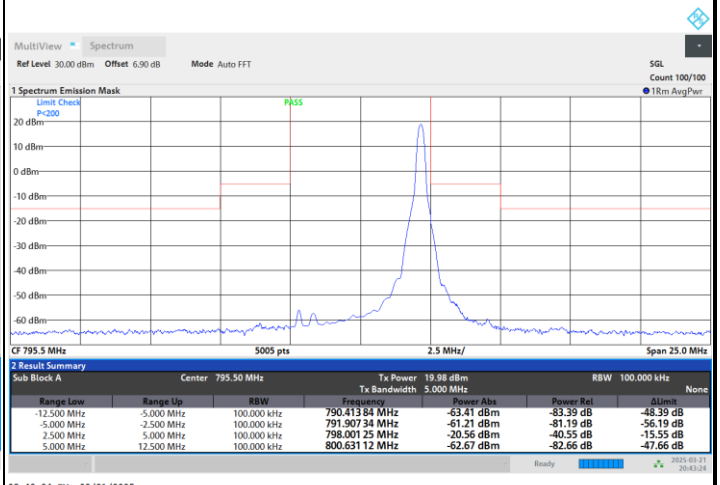
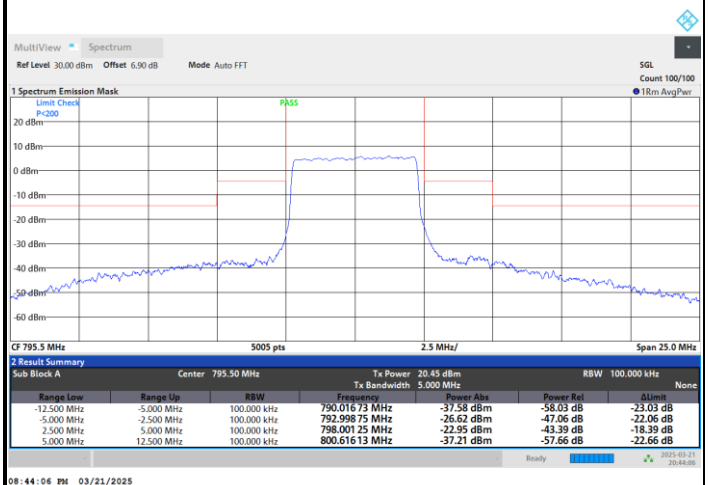
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM	
Lowest Channel	
1RB0	1RBmax
	
Full RB	
	

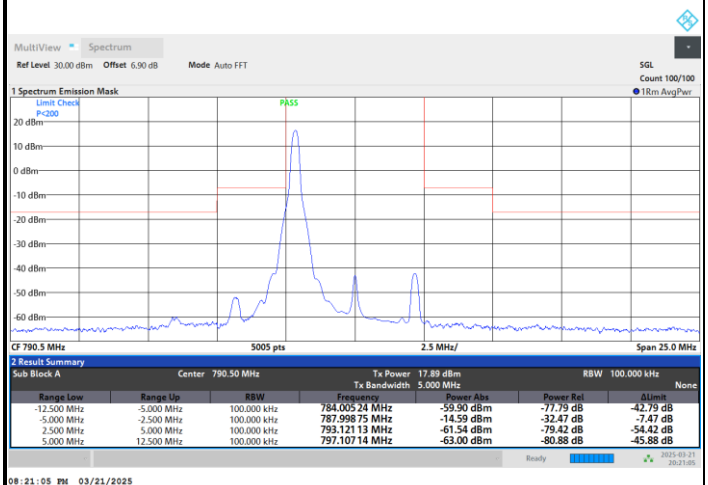
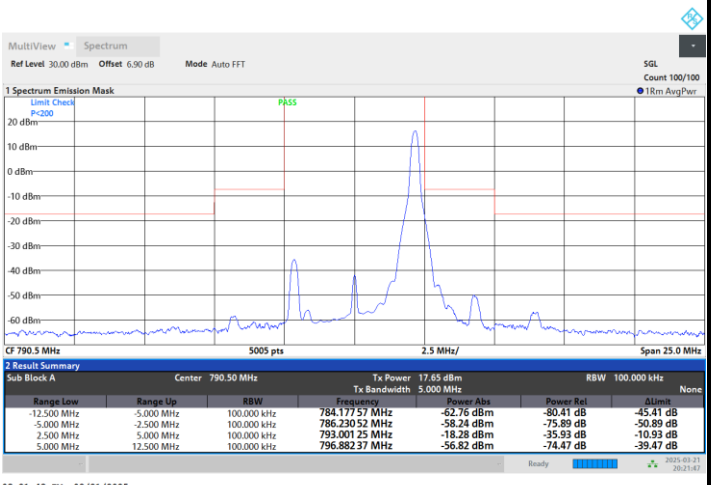
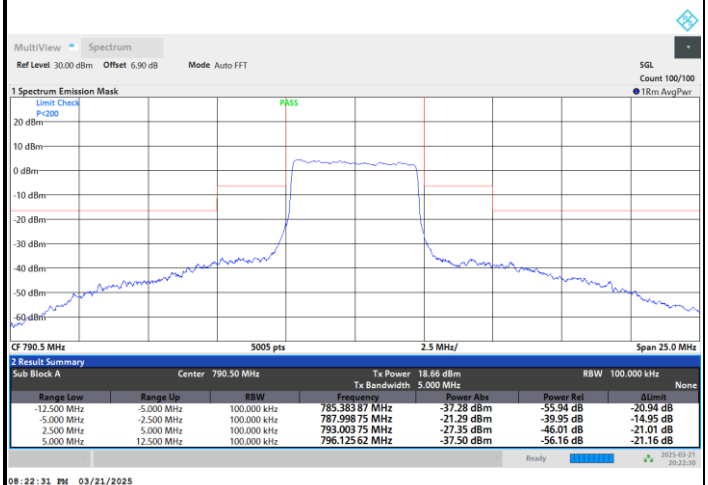
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM	
Middle Channel	
1RB0	1RBmax
	
Full RB	
	

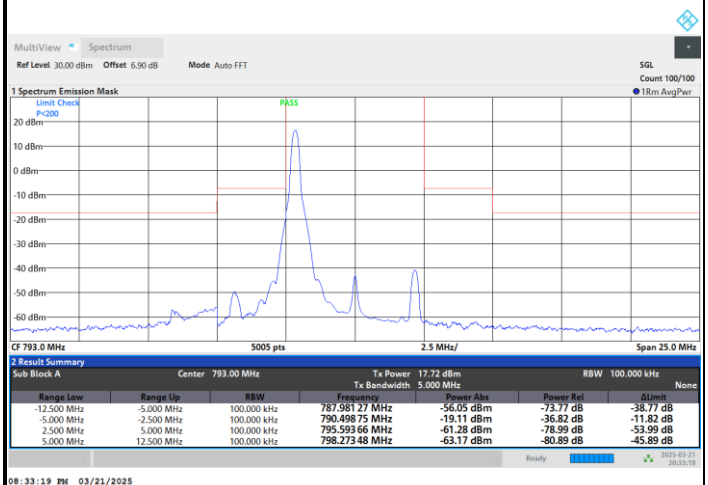
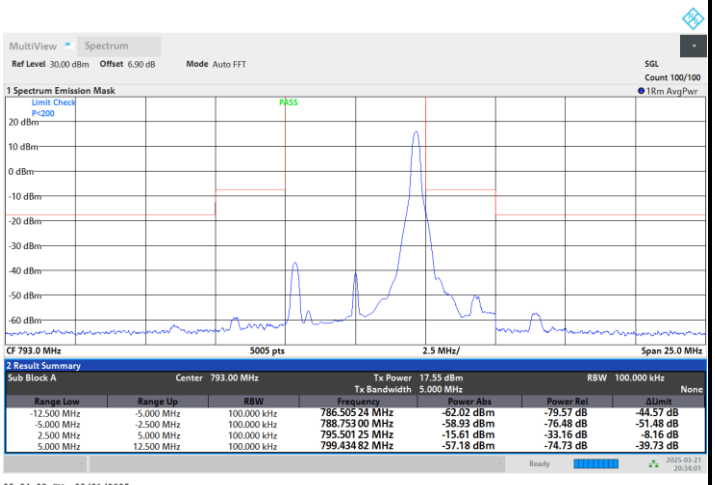
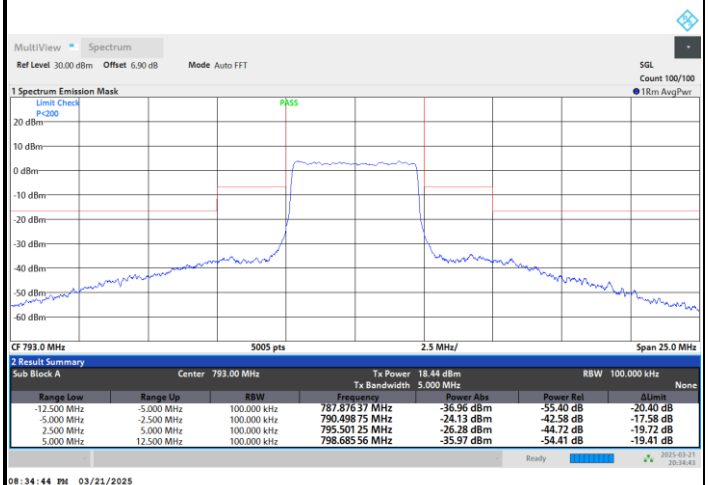
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM	
Highest Channel	
1RB0	1RBmax
	
Full RB	
	

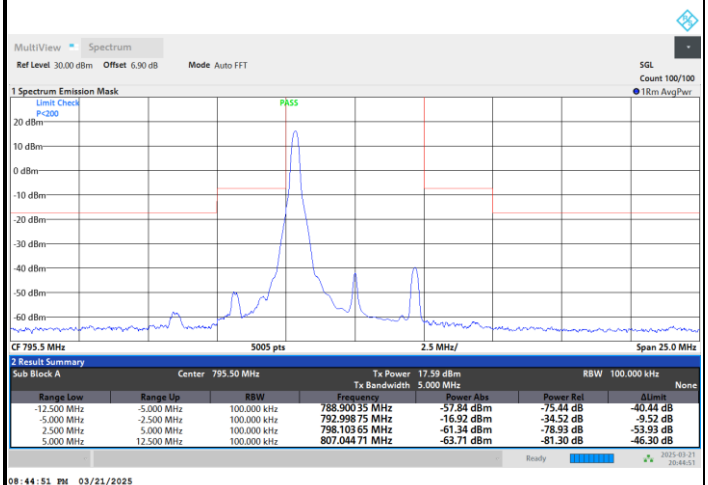
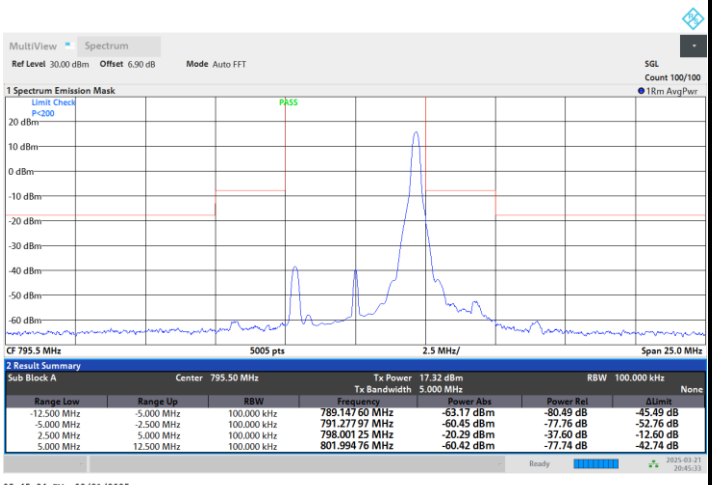
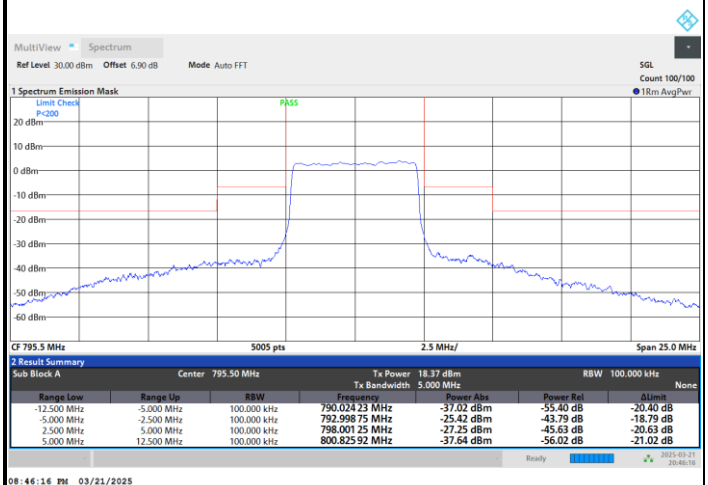
FR1 n14 / 5MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
1RB0	1RBmax
	
Full RB	
	

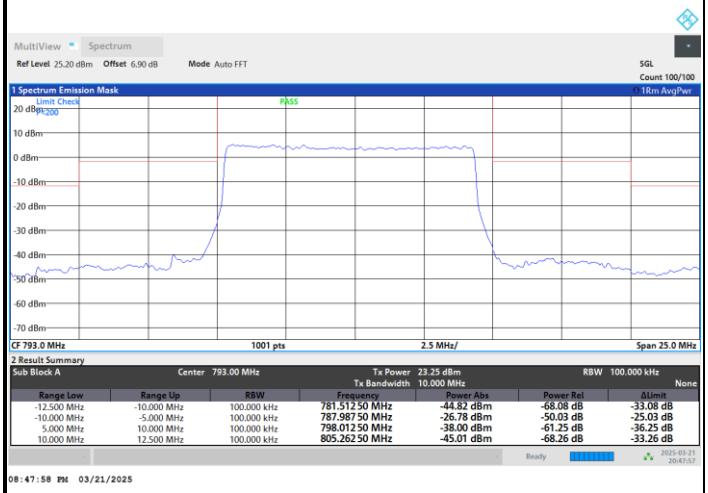
FR1 n14 / 5MHz / DFT-S OFDM / 64QAM	
Middle Channel	
1RB0	1RBmax
	
Full RB	
	

FR1 n14 / 5MHz / DFT-S OFDM / 64QAM	
Highest Channel	
1RB0	1RBmax
	
Full RB	
	

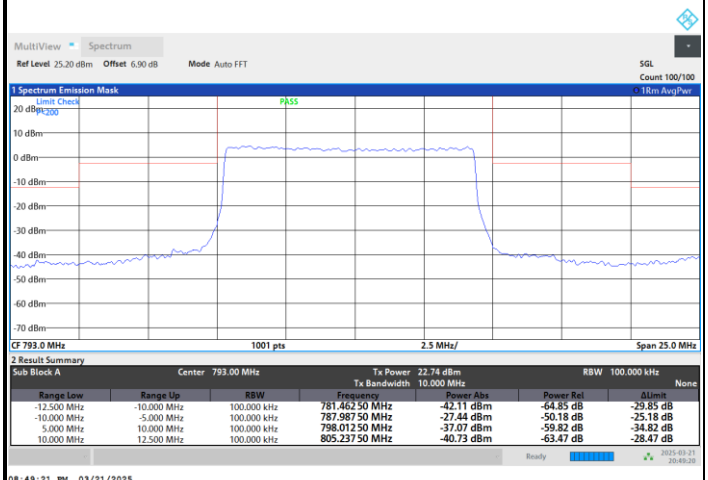
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM	
Lowest Channel	
1RB0	1RBmax
	
Full RB	
	

FR1 n14 / 5MHz / DFT-S OFDM / 256QAM	
Middle Channel	
1RB0	1RBmax
	
Full RB	
	

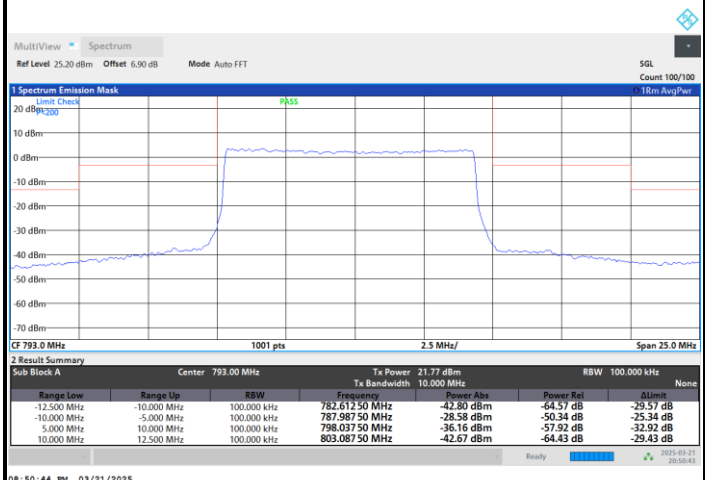
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM	
Highest Channel	
1RB0	1RBmax
	
Full RB	
	

FR1 n14 / 10MHz / DFT-S OFDM / BPSK	
Middle Channel	
Full RB	
	

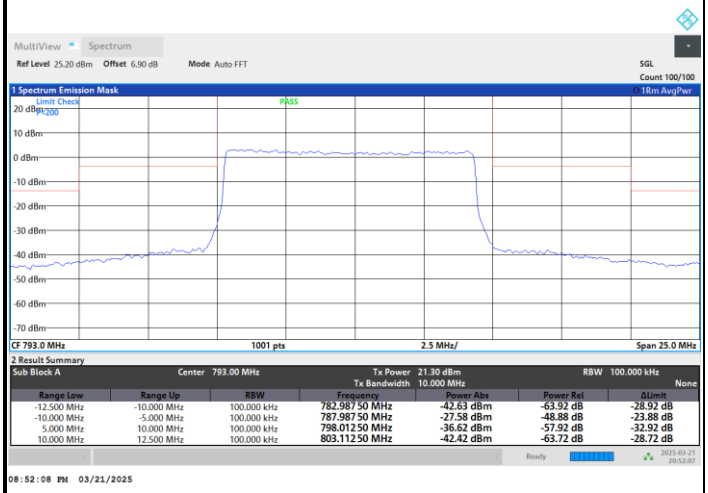
FR1 n14 / 10MHz / DFT-S OFDM / QPSK	
Middle Channel	
Full RB	



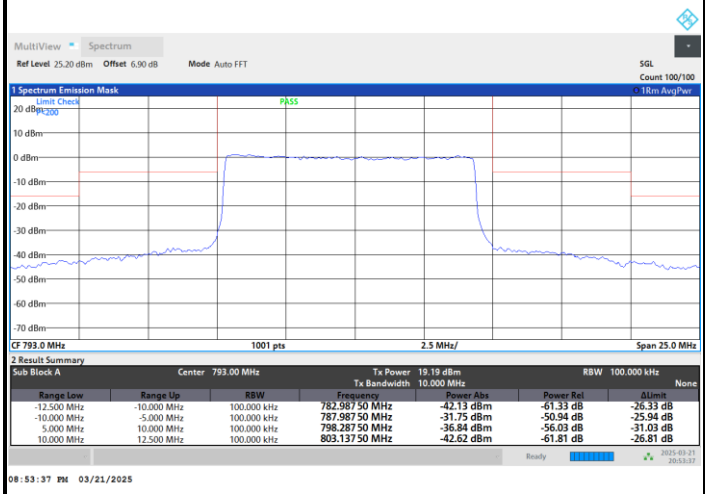
FR1 n14 / 10MHz / DFT-S OFDM / 16QAM	
Middle Channel	
Full RB	

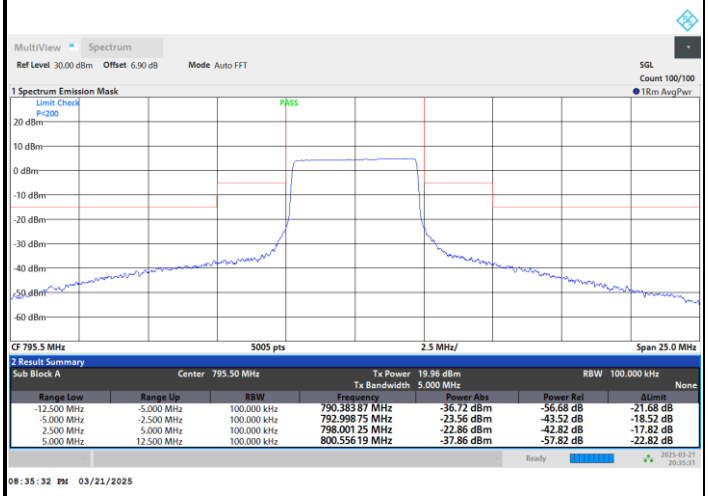


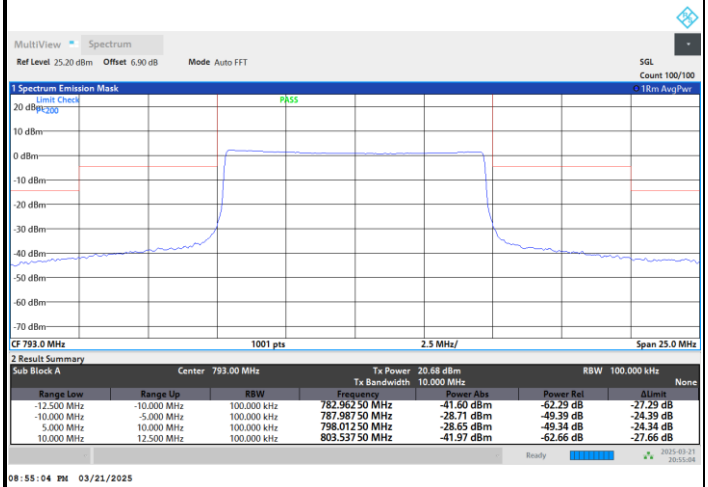
FR1 n14 / 10MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	



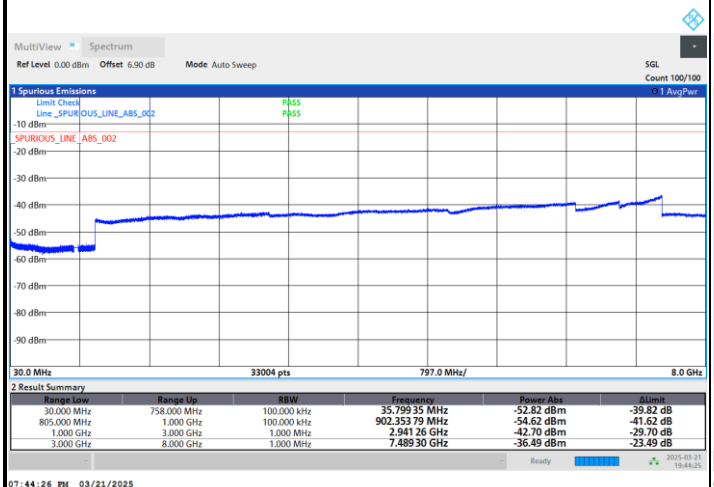
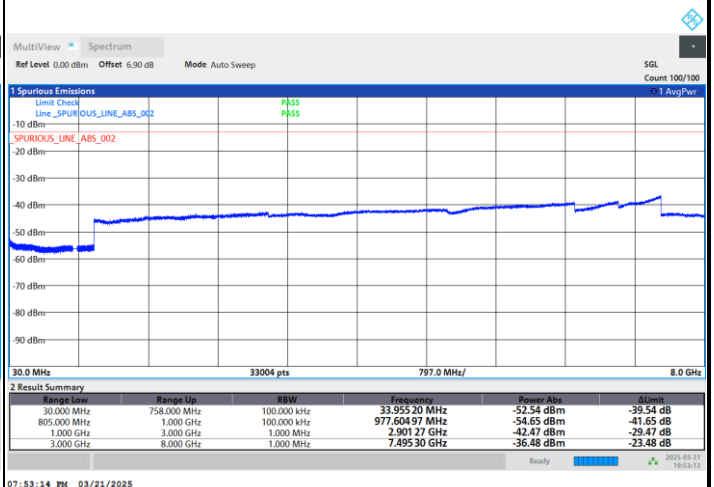
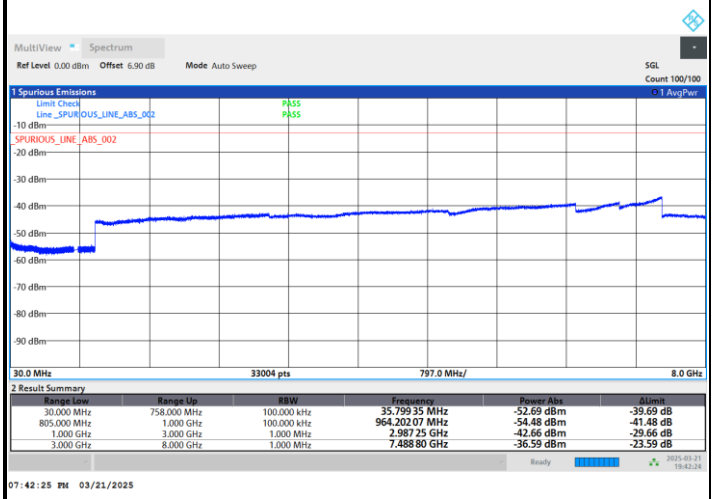
FR1 n14 / 10MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	



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	

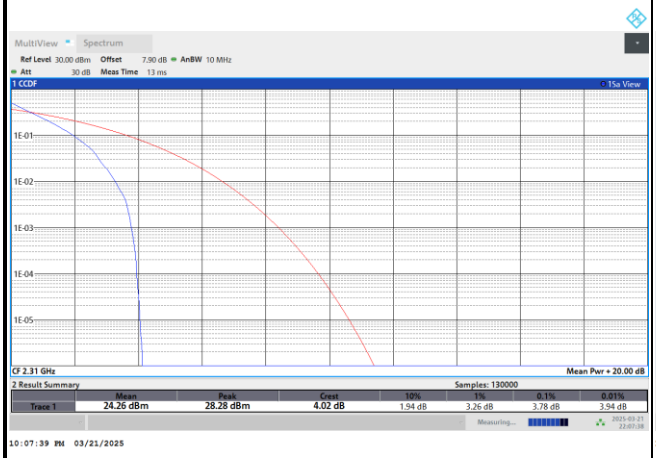
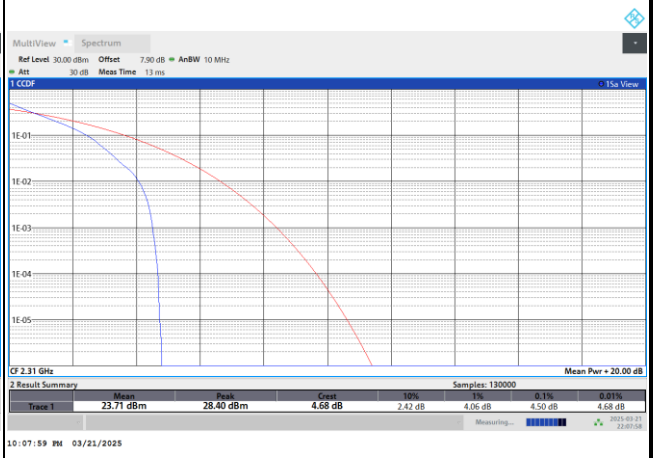
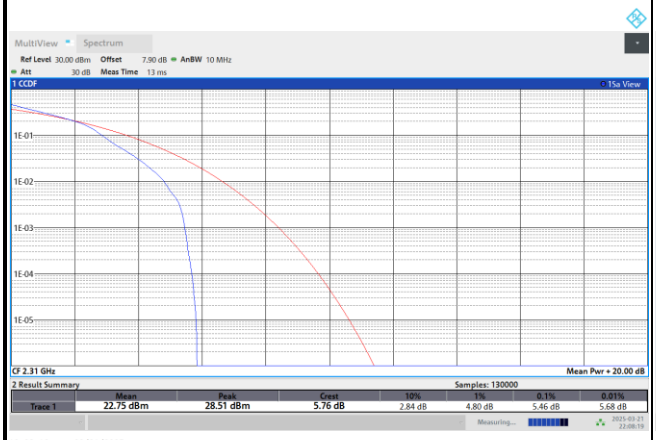
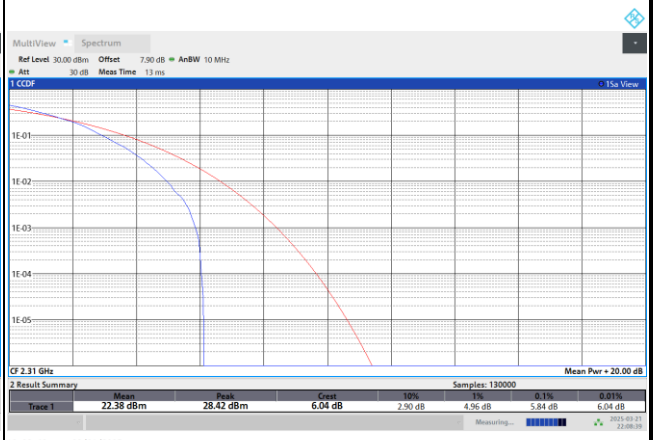
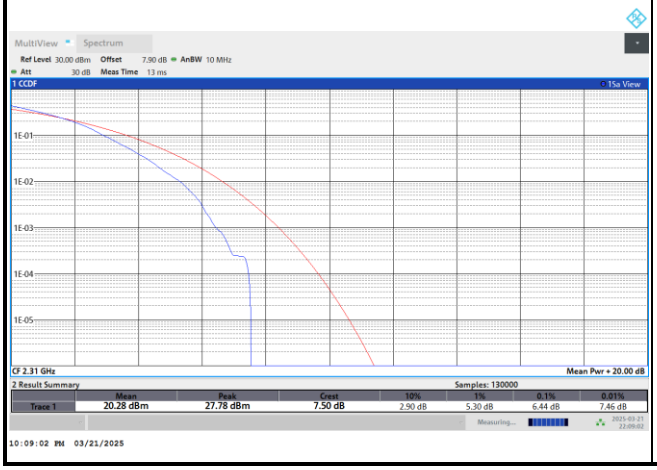
Note:

1. Normal Voltage = 3.8 V.；Minimum Voltagee = 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	
	

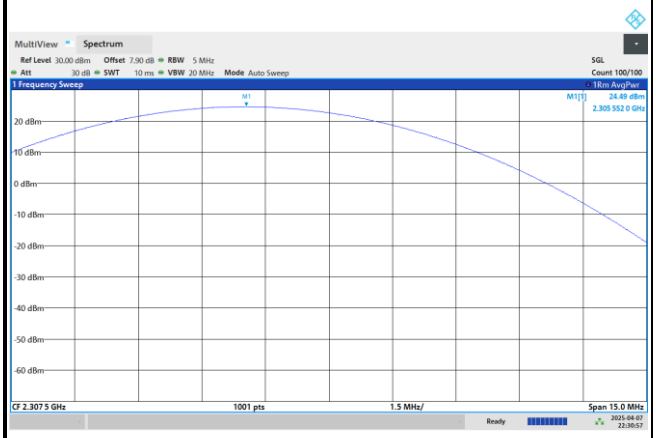
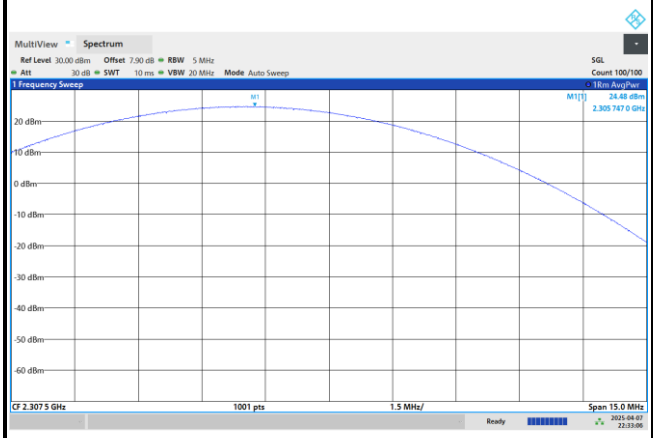
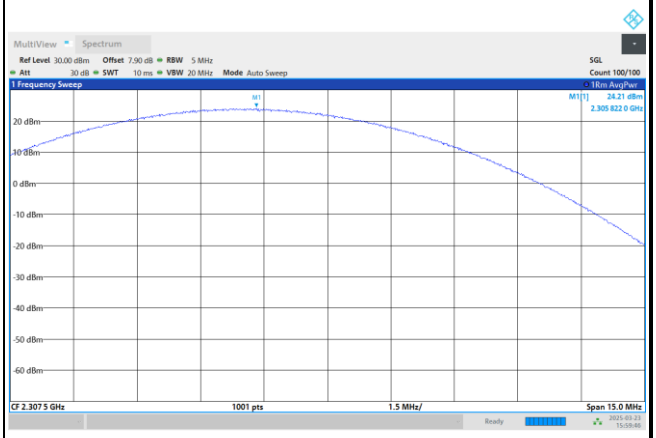
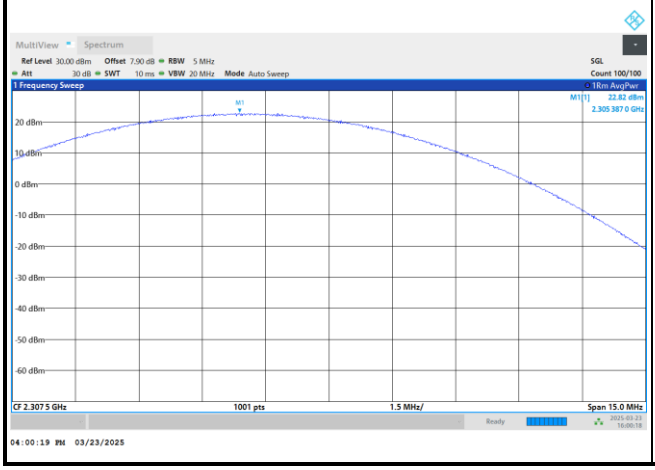
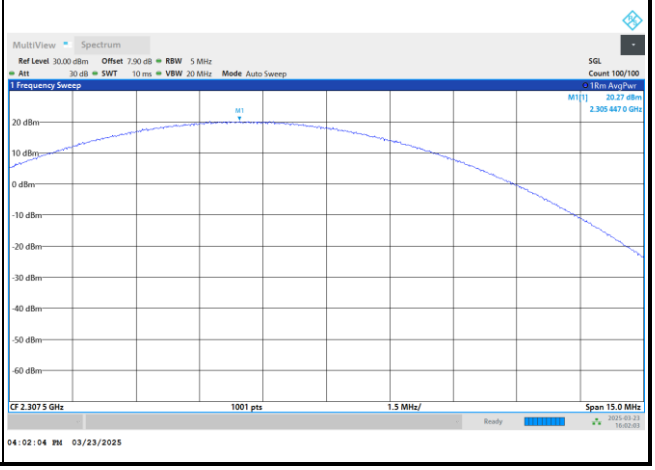
EIRP Power Density

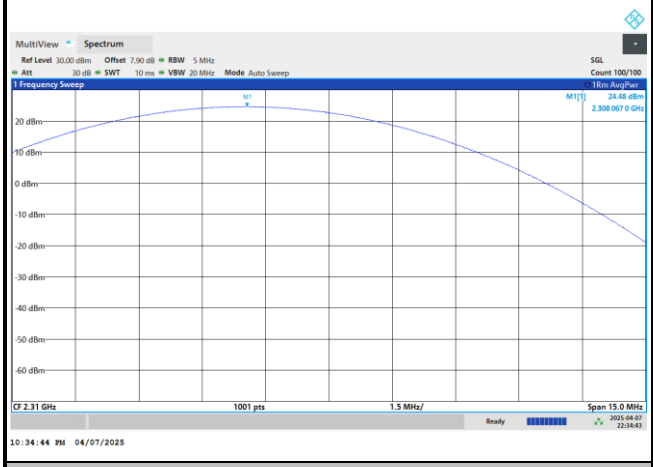
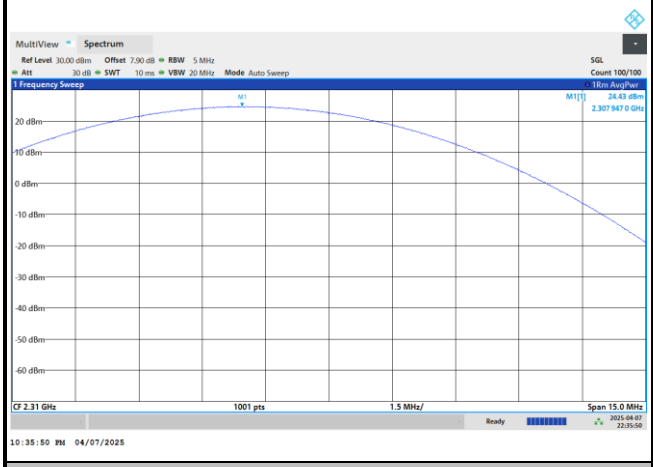
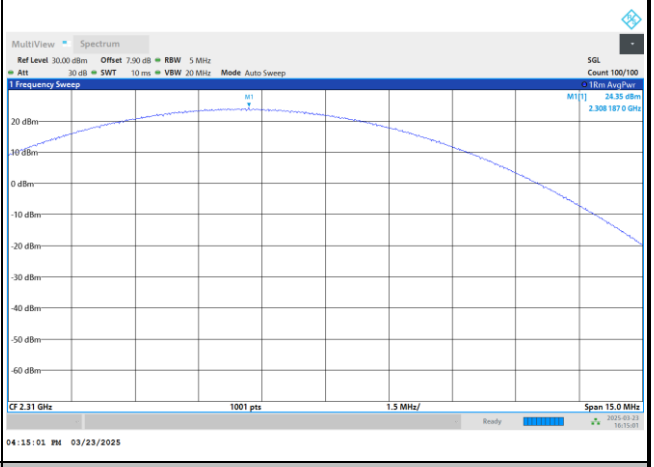
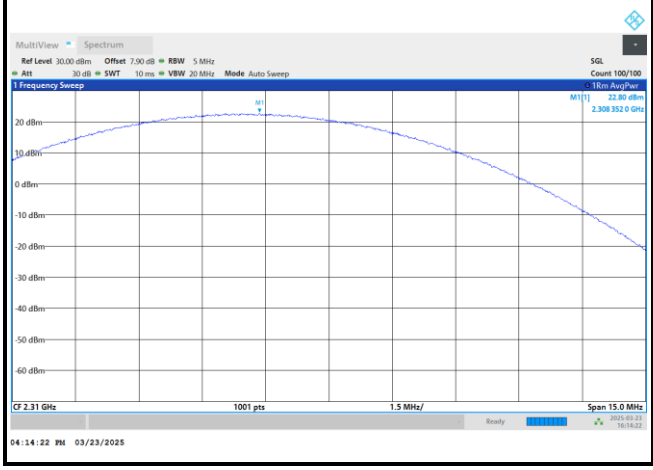
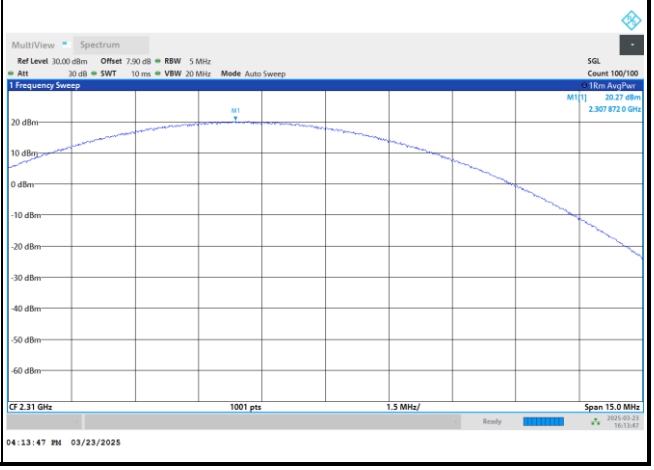
Mode	FR1 n30/ Conducted Power Density (dBm/5MHz)				
BW	5MHz	10M			
Mod.	PI/2 BPSK	PI/2 BPSK			
RB Size	1RB1	1RB1			
Lowest CH	24.49	-			
Middle CH	24.48	24.46			
Highest CH	24.46	-			

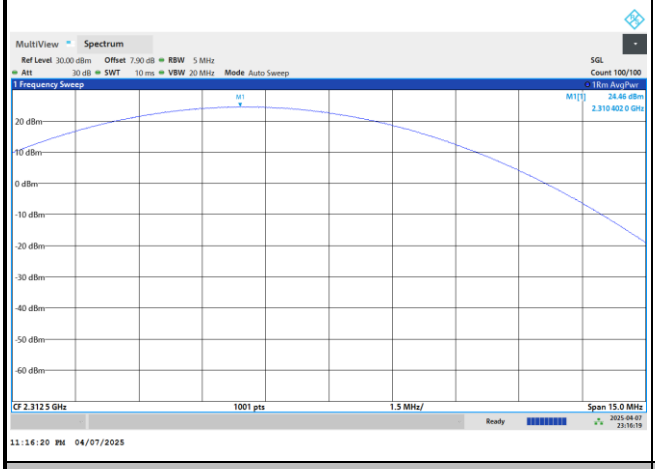
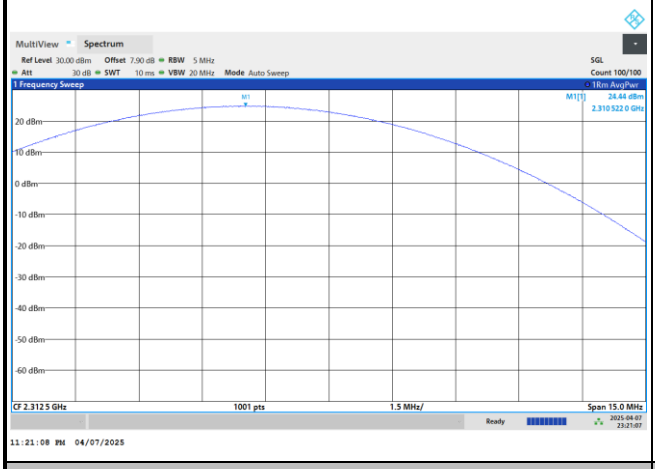
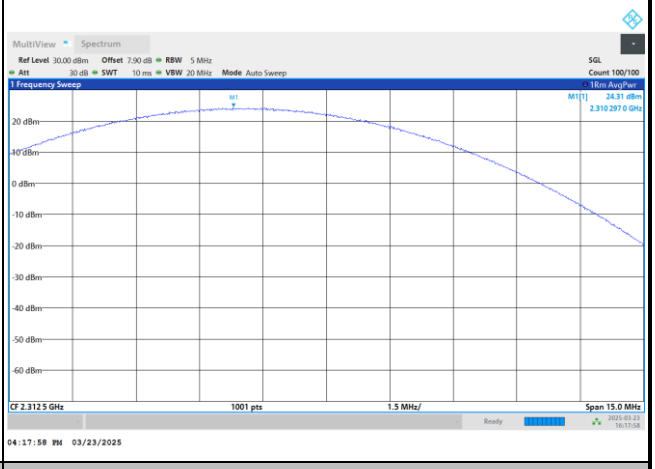
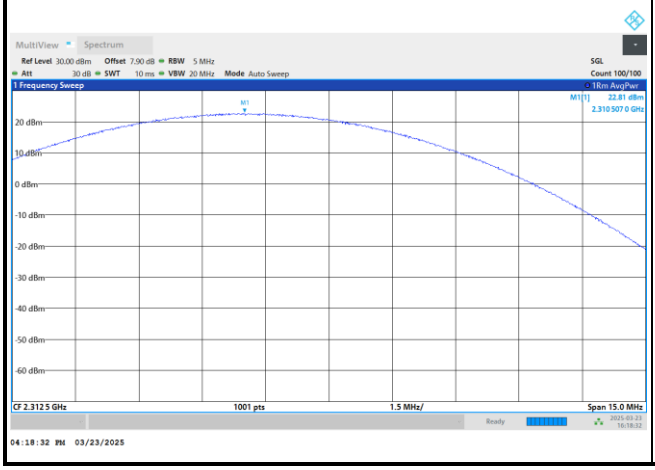
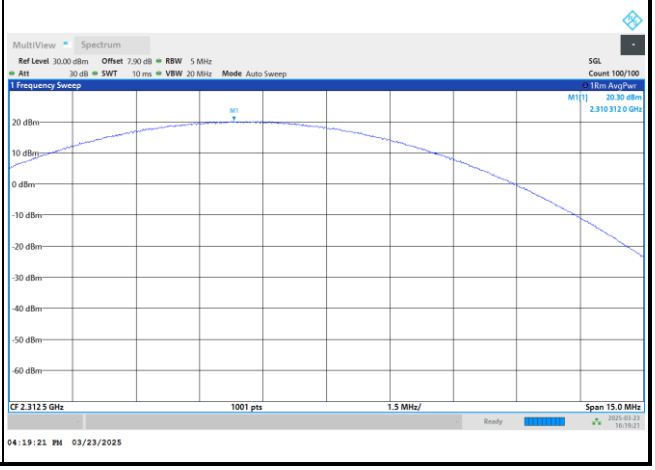
Mode	FR1 n30/ Conducted Power Density (dBm/5MHz)			
BW	5MHz		10M	10M
Mod.	QPSK	16QAM	QPSK	16QAM
RB Size	1RB1	1RB1	1RB1	1RB1
Lowest CH	24.48	24.21	-	-
Middle CH	24.43	24.35	24.47	24.01
Highest CH	24.44	24.31	-	-
Mod.	64QAM	256QAM	64QAM	256QAM
RB Size	1RB1	1RB1	1RB1	1RB1
Lowest CH	22.82	20.27	-	-
Middle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

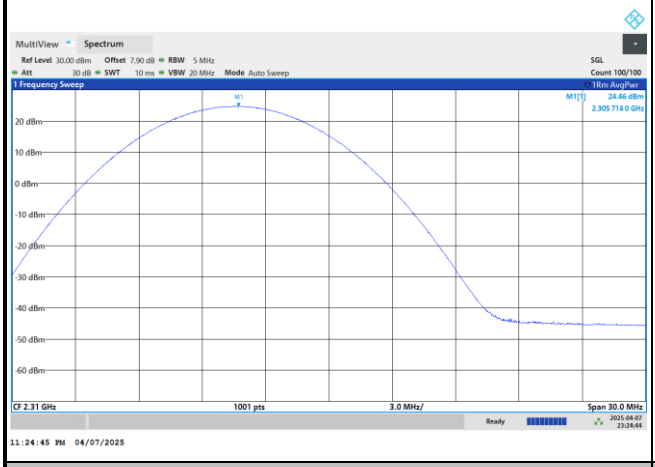
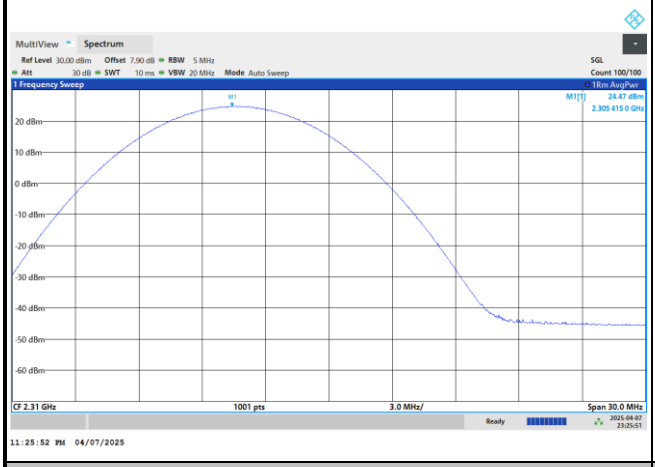
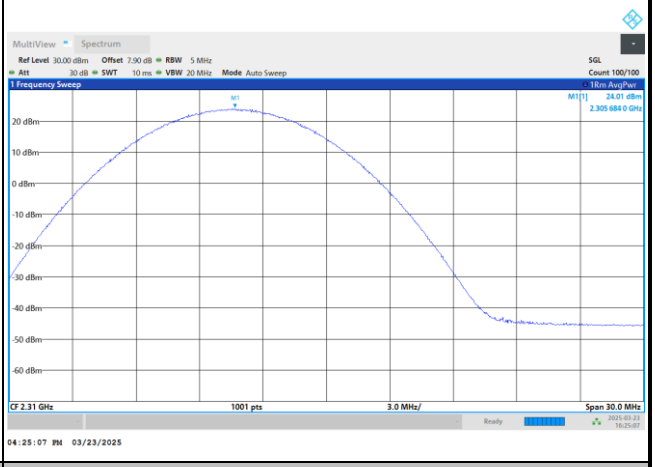
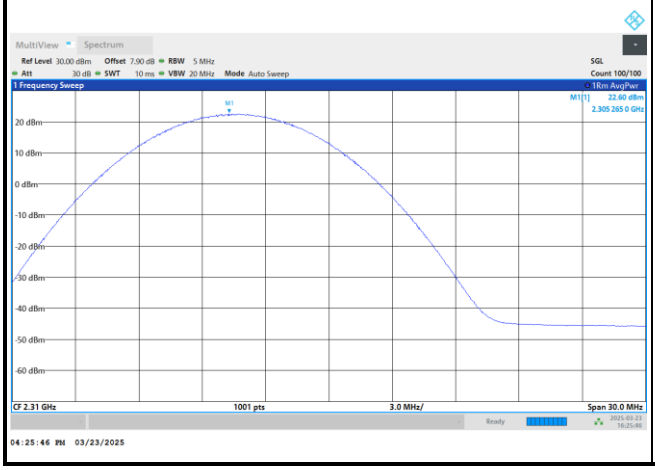
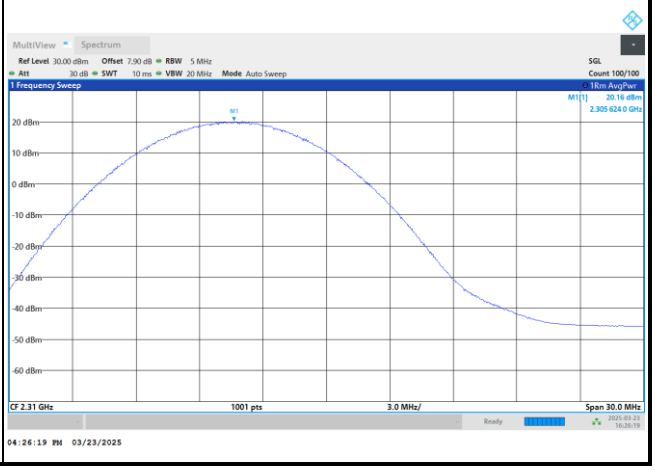
Mode	FR1 n30/ EIRP Power Density (dBm/5MHz)				
BW	5MHz	10M			
Mod.	PI/2 BPSK	PI/2 BPSK			
RB Size	1RB1	1RB1			
Lowest CH	32.99	-			
Middle CH	32.98	32.46			
Highest CH	32.96	-			

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
	

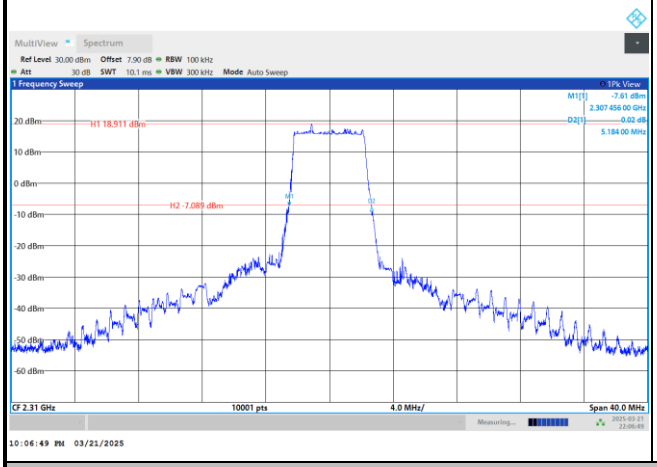
FR1 n30 / 5MHz / DFT-S OFDM / Highest Channel / 1RB1	
PI/2 BPSK	
	
QPSK	16QAM
	
64QAM	256QAM
	

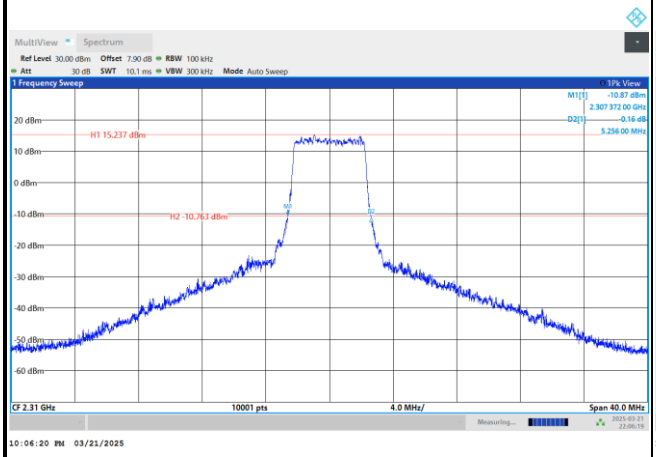
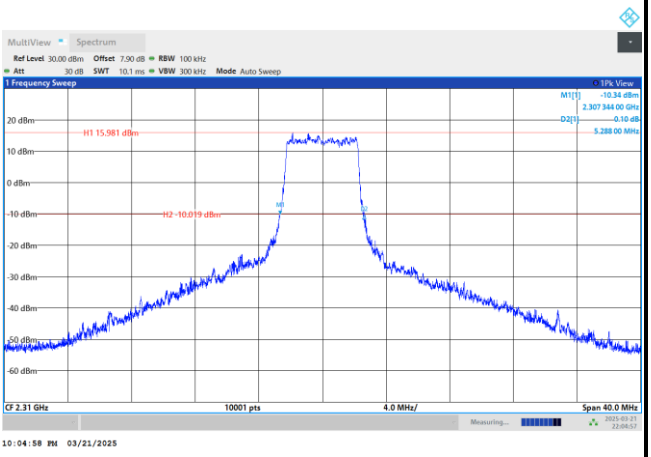
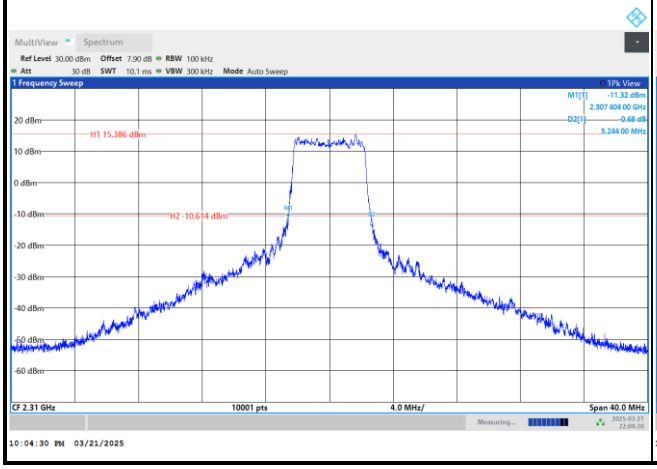
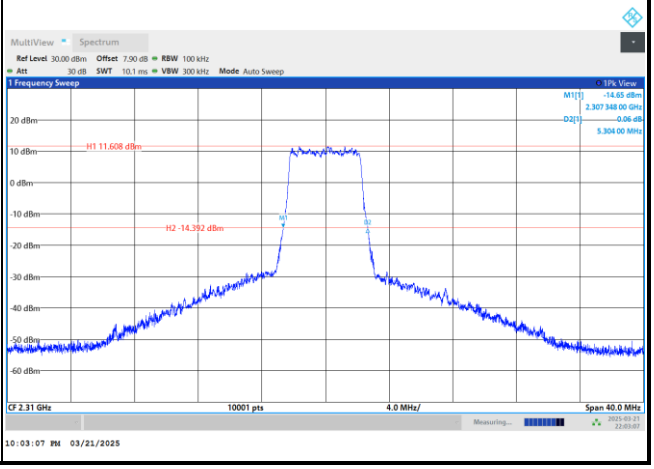
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / 1RB1	
PI/2 BPSK	
	
QPSK	16QAM
	
64QAM	256QAM
	

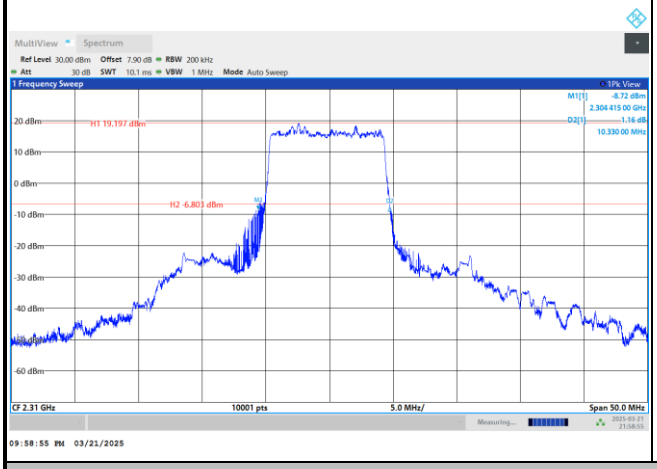
26dB Bandwidth

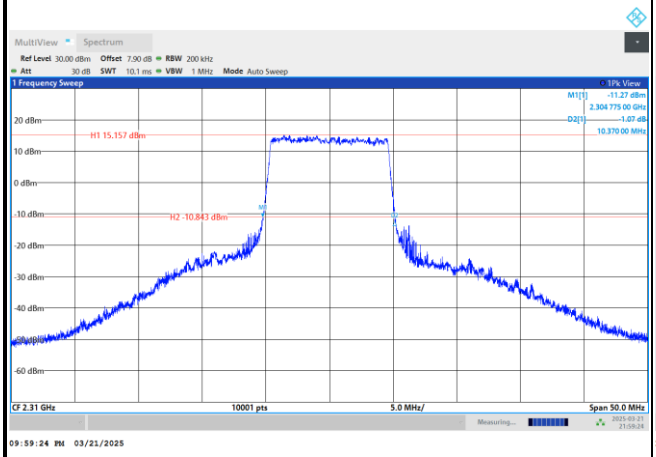
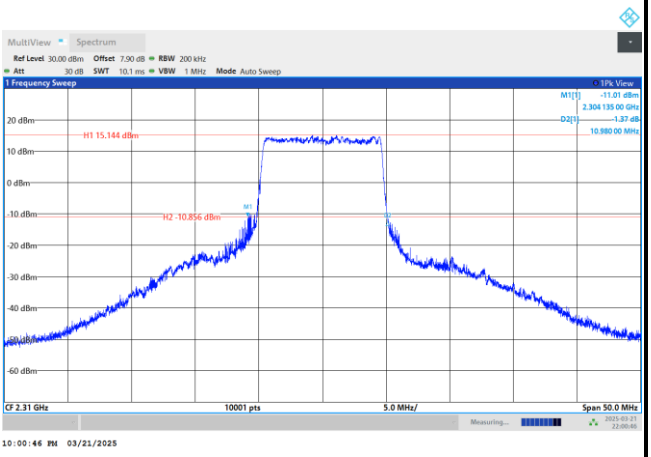
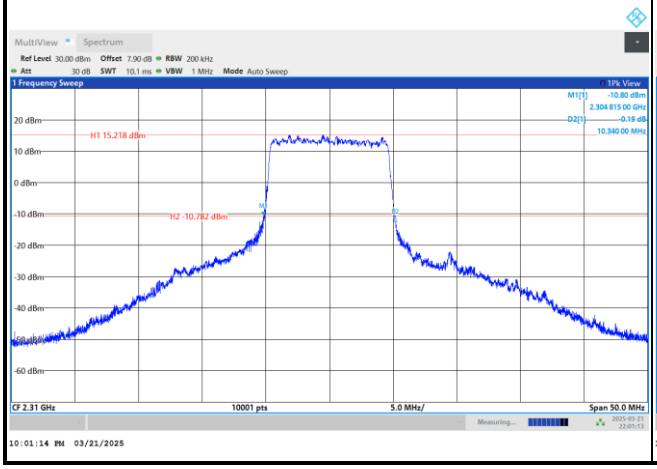
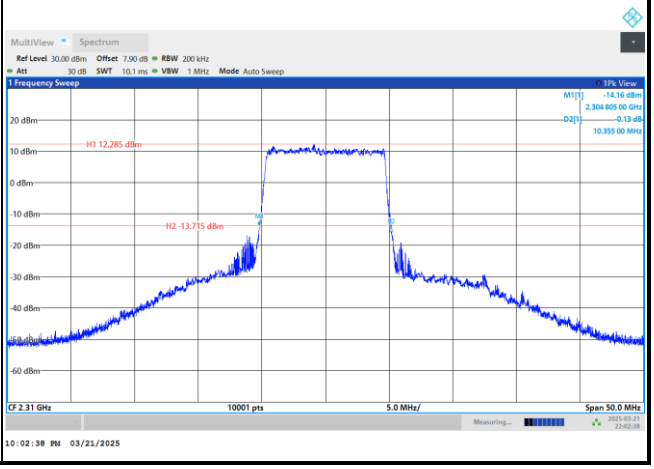
Mode	FR1 n30 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.18		10.33					

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				