

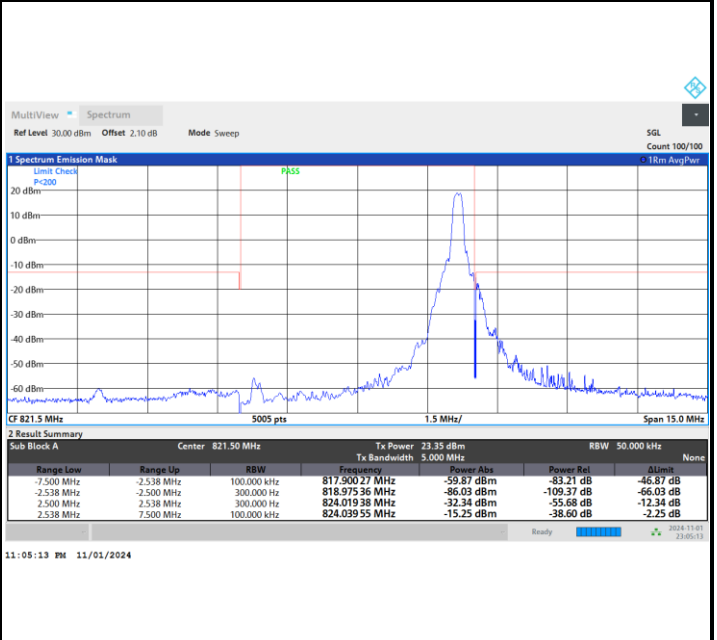
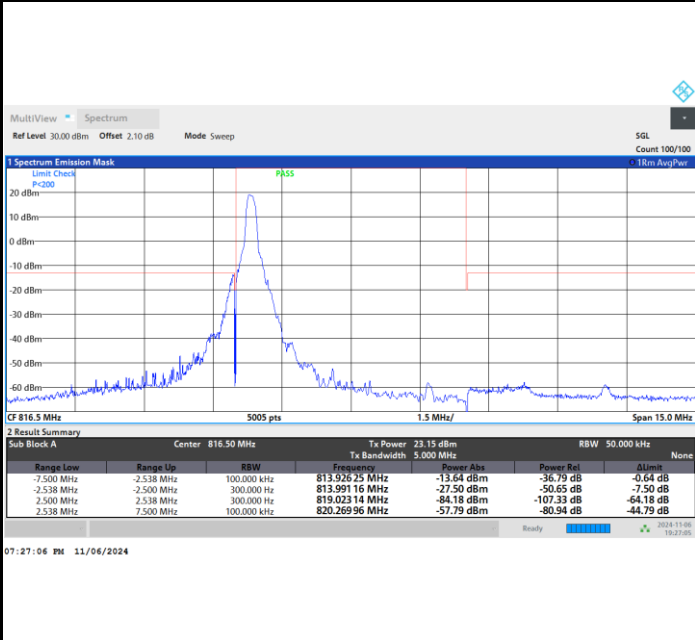


Emission masks – In-band emissions

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

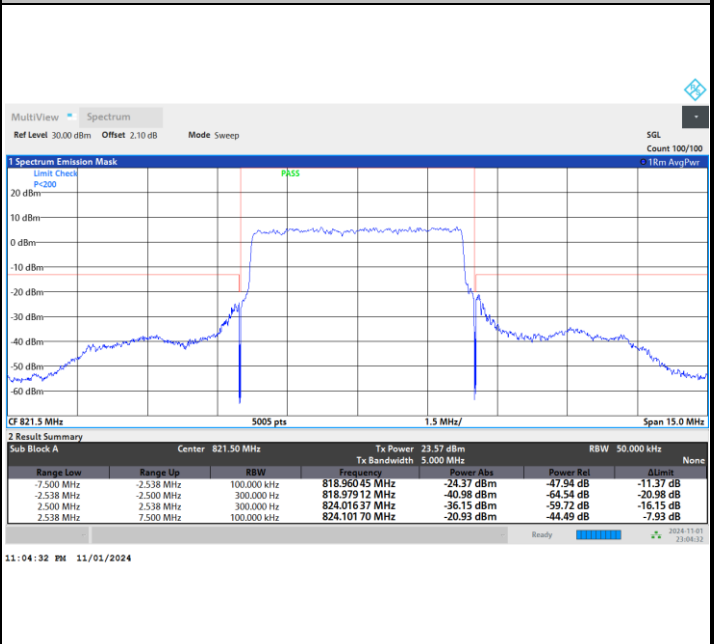
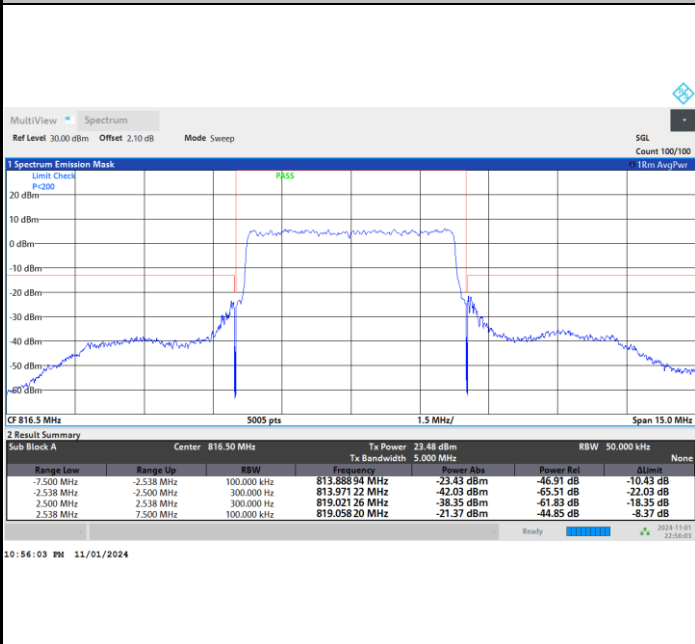
Lowest MASK / 1RB0

Highest MASK / 1RBmax



Lowest MASK / Full RB

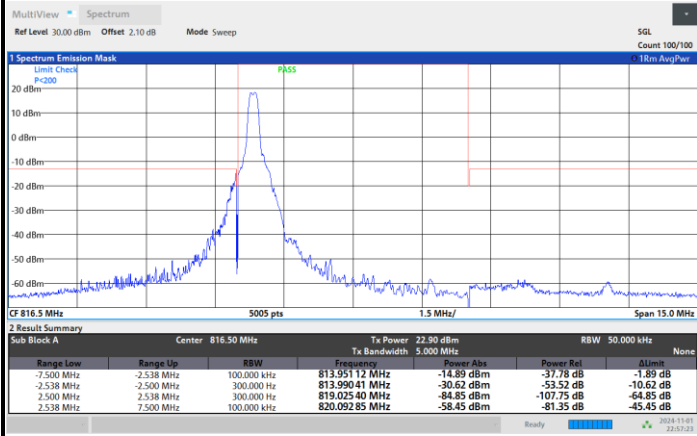
Highest MASK / Full RB





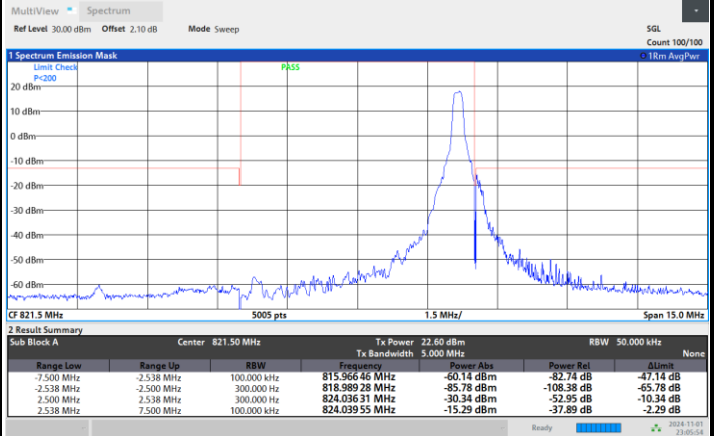
FR1 n26 / 5MHz / DFT-S OFDM / QPSK

Lowest MASK / 1RB0



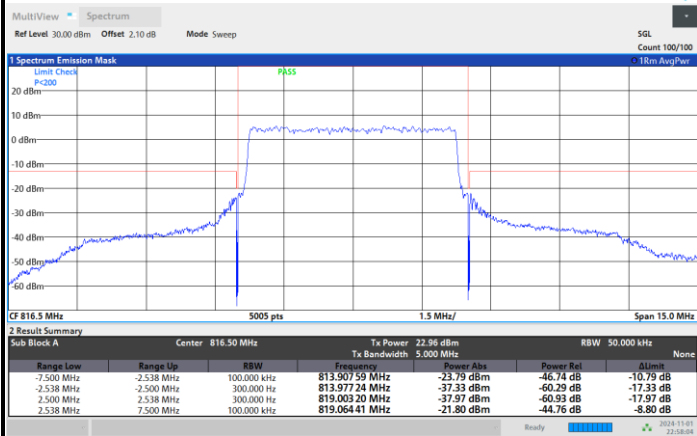
10:57:25 PM 11/01/2024

Highest MASK / 1RBmax



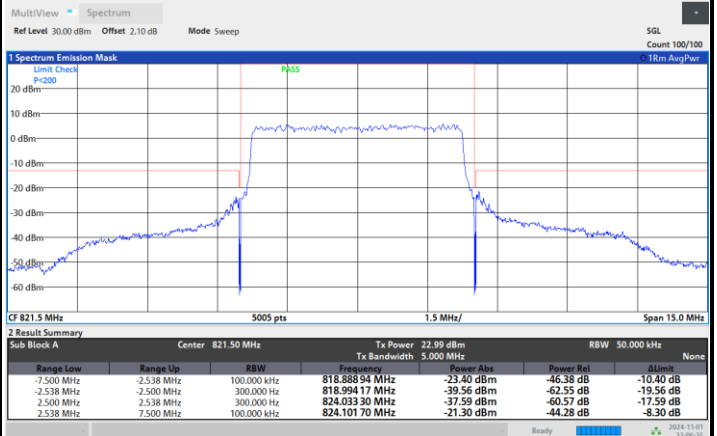
11:05:54 PM 11/01/2024

Lowest MASK / Full RB



10:58:05 PM 11/01/2024

Highest MASK / Full RB

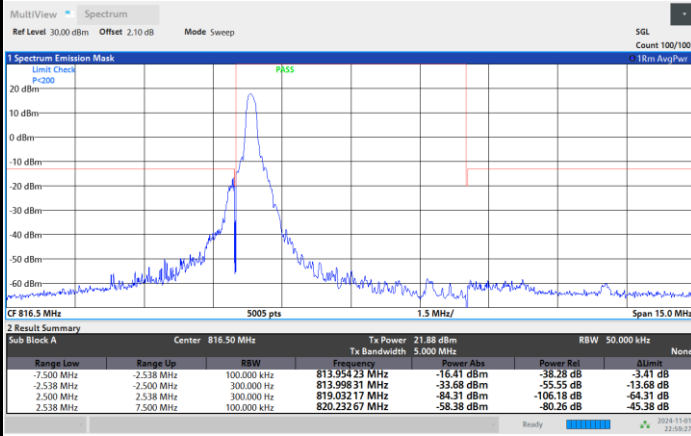


11:06:35 PM 11/01/2024

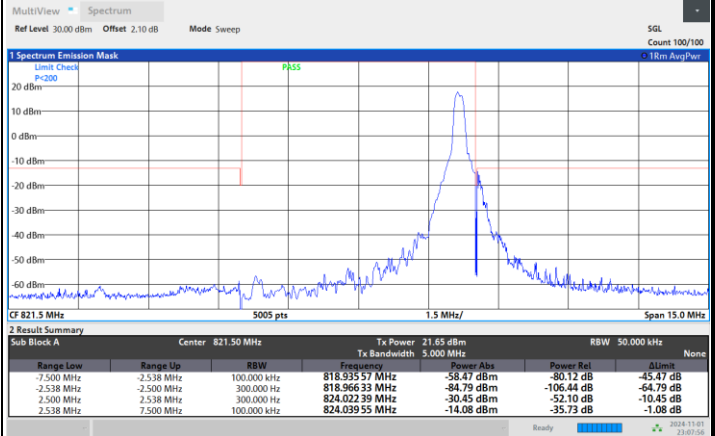


FR1 n26 / 5MHz / DFT-S OFDM / 16QAM

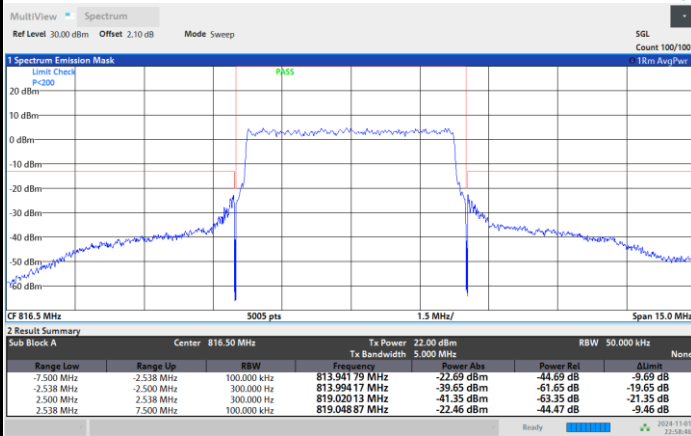
Lowest MASK / 1RB0



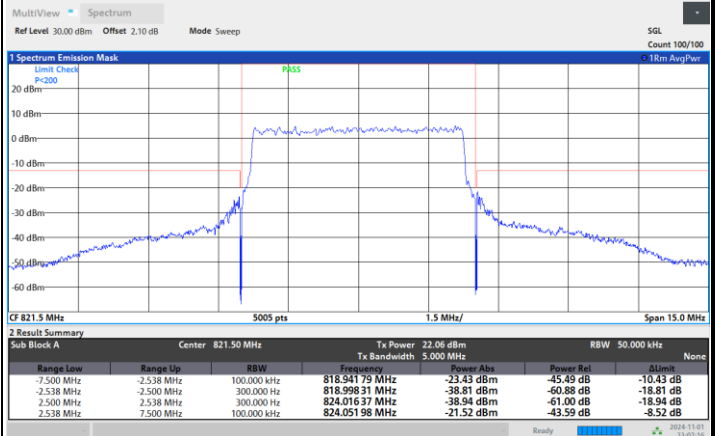
Highest MASK / 1RBmax



Lowest MASK / Full RB



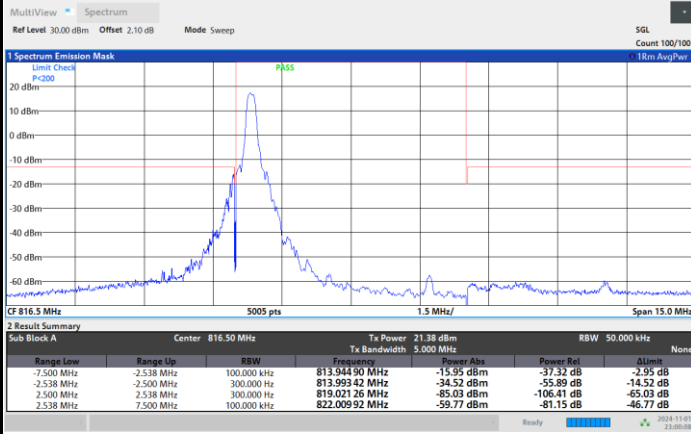
Highest MASK / Full RB



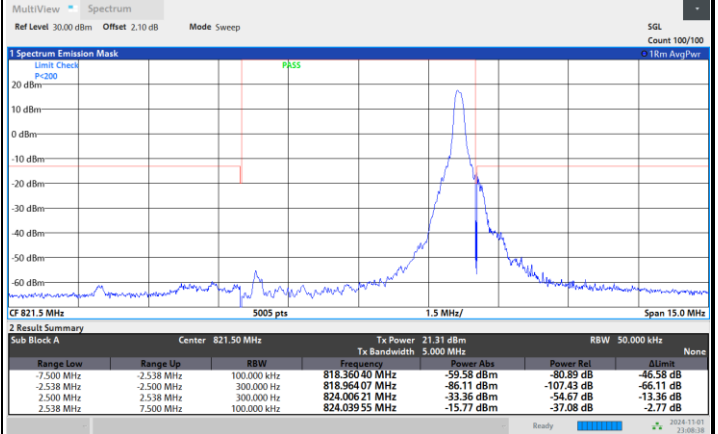


FR1 n26 / 5MHz / DFT-S OFDM / 64QAM

Lowest MASK / 1RB0



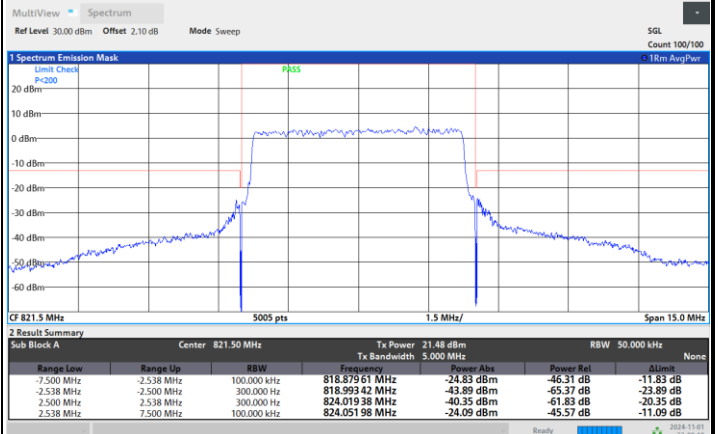
Highest MASK / 1RBmax



Lowest MASK / Full RB



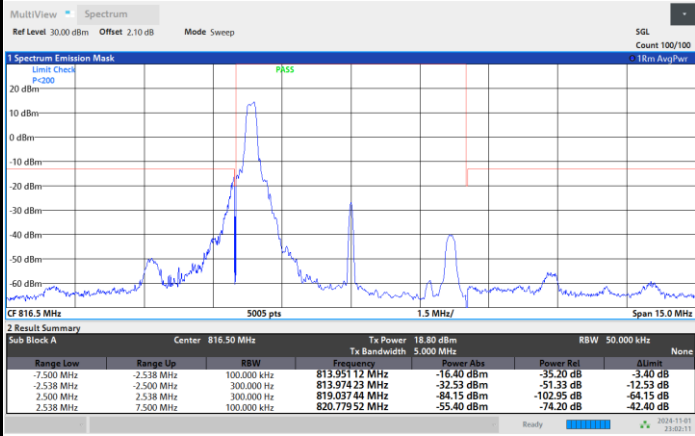
Highest MASK / Full RB



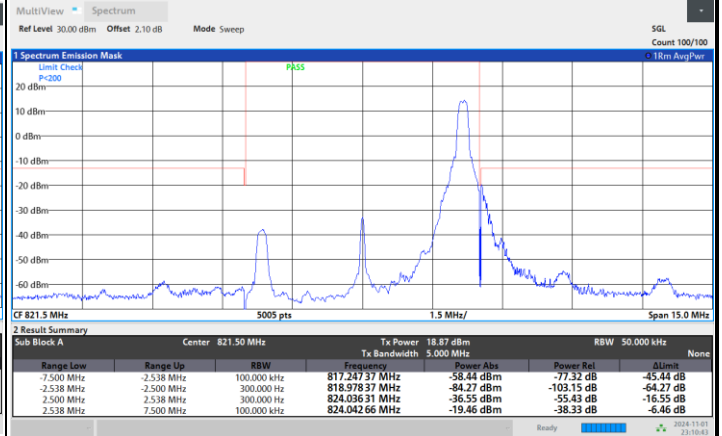


FR1 n26 / 5MHz / DFT-S OFDM / 256QAM

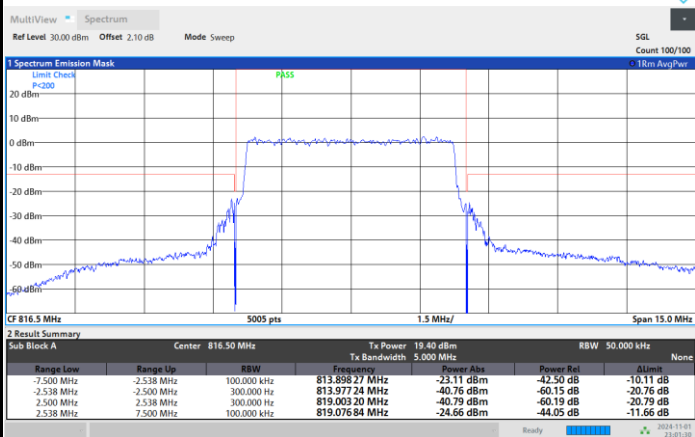
Lowest MASK / 1RB0



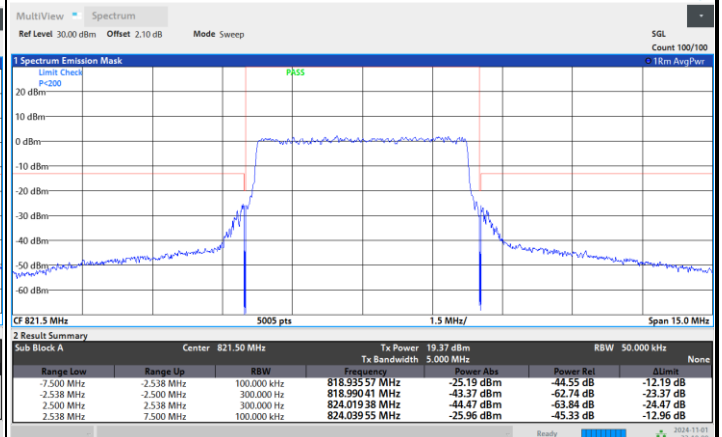
Highest MASK / 1RBmax



Lowest MASK / Full RB



Highest MASK / Full RB

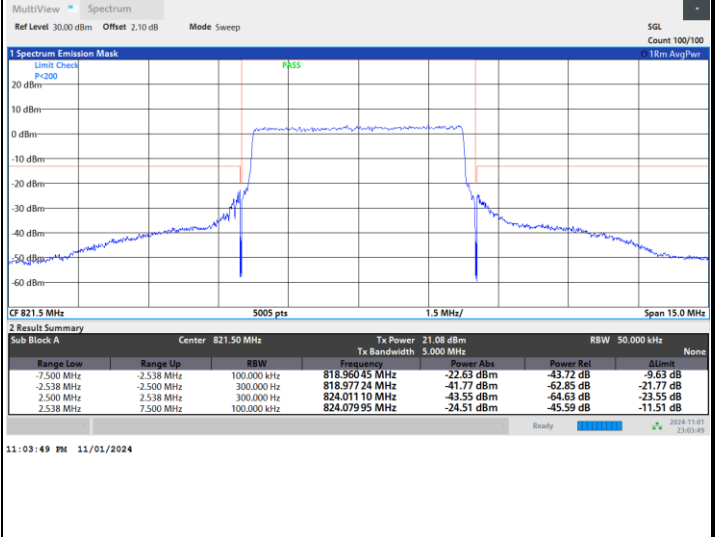
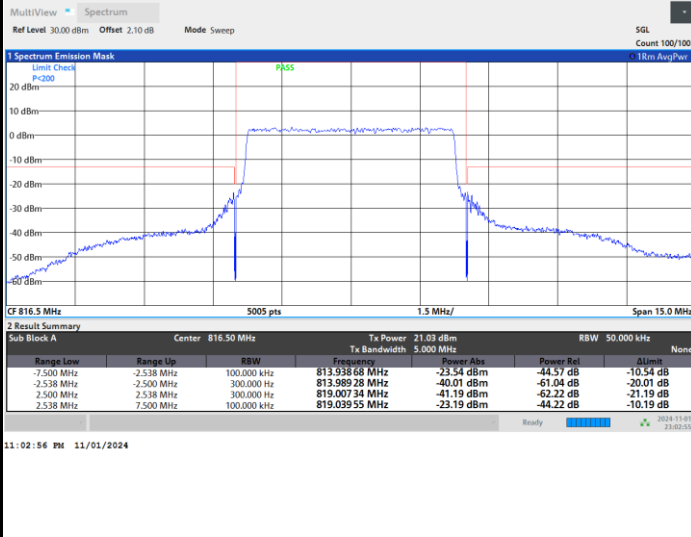




FR1 n26 / 5MHz / CP OFDM / QPSK / Full RB

Lowest MASK

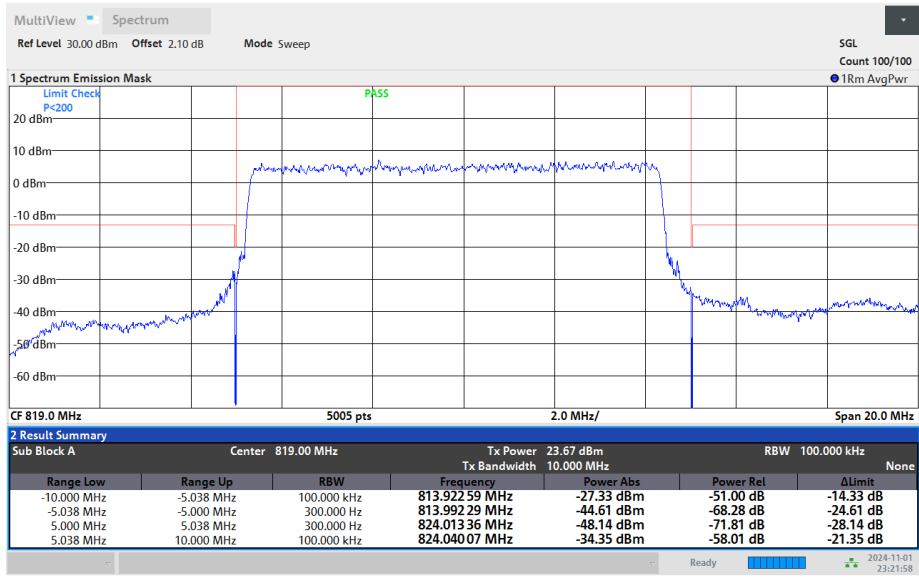
Highest MASK





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

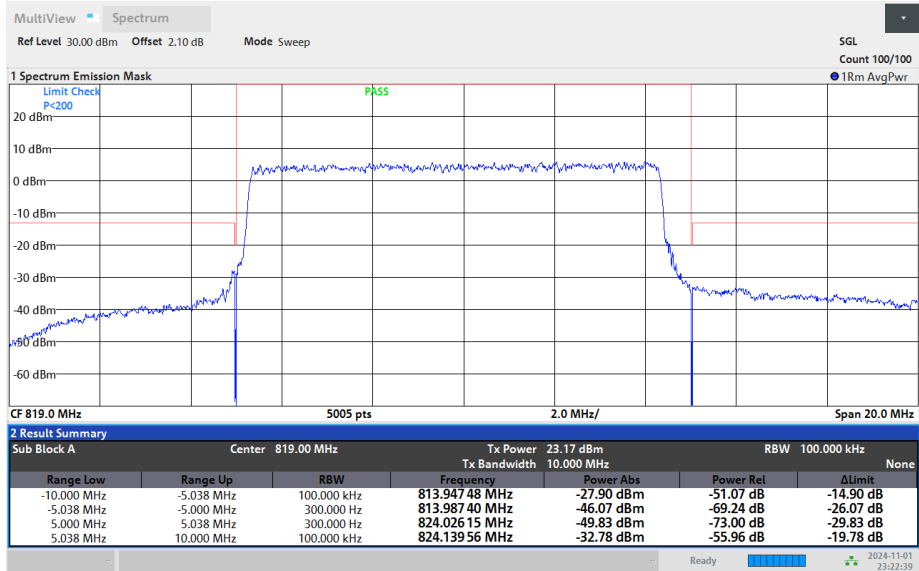
Middle MASK / Full RB



11:21:59 PM 11/01/2024

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

Lowest MASK / Full RB

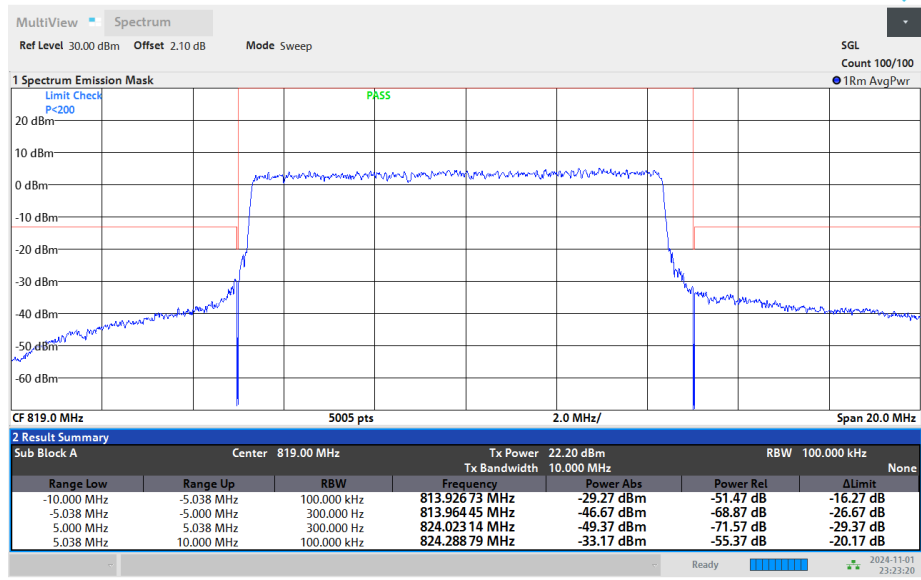


11:22:40 PM 11/01/2024



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

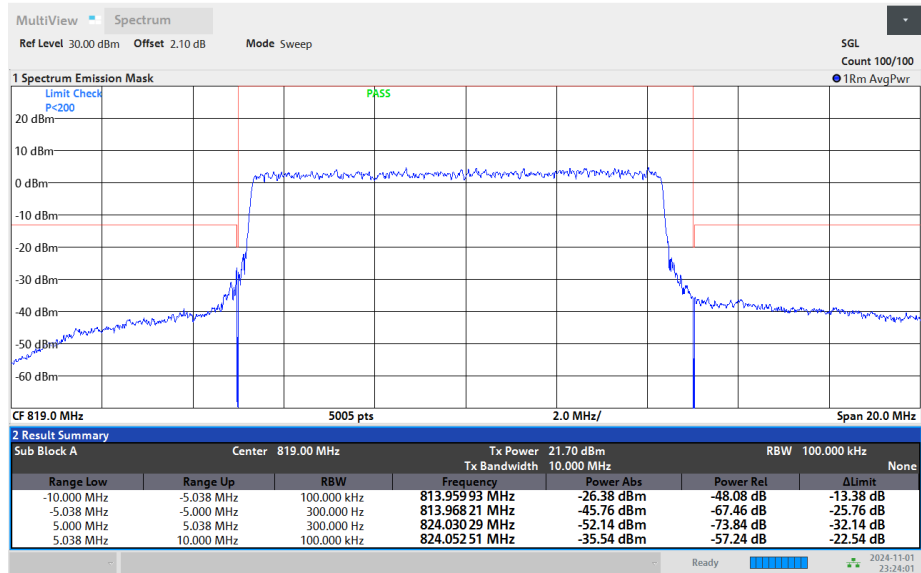
Middle MASK / Full RB



11:23:21 PM 11/01/2024

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

Middle MASK / Full RB

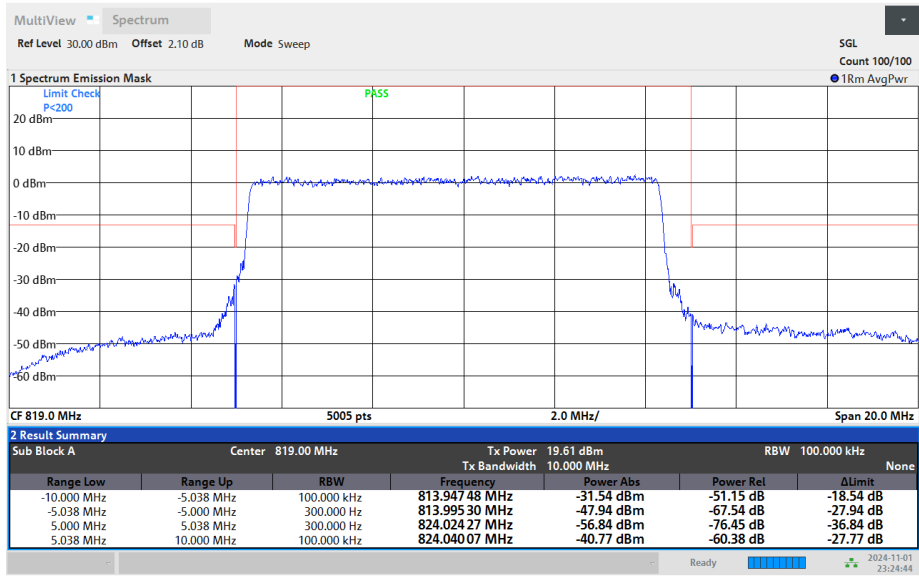


11:24:03 PM 11/01/2024



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

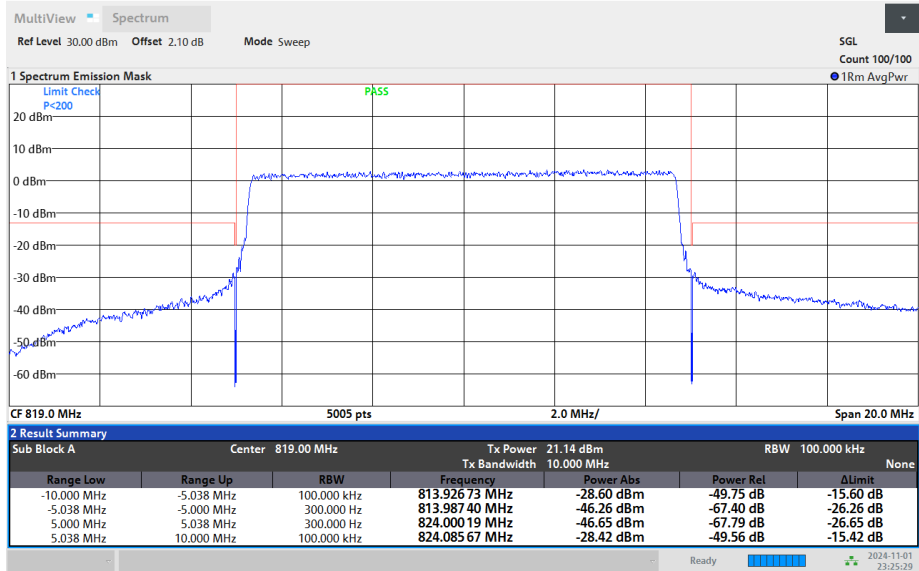
Middle MASK / Full RB



11:24:45 PM 11/01/2024

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

Middle MASK



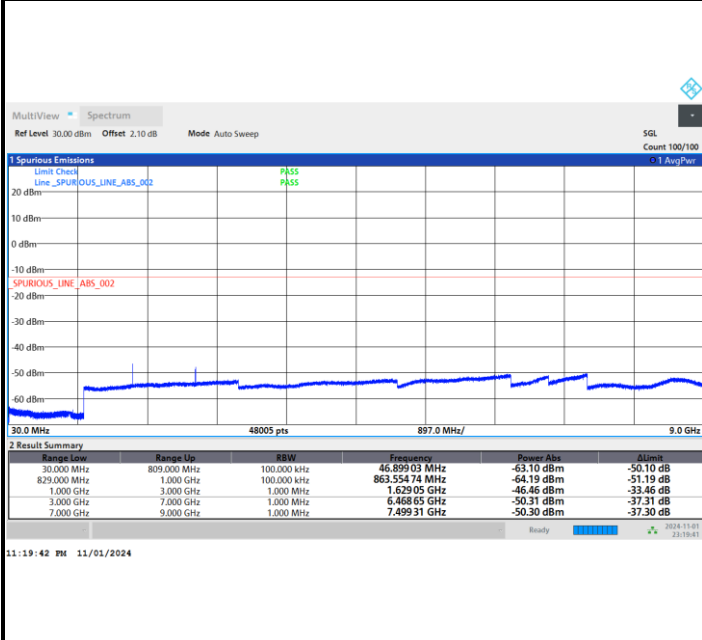
11:25:30 PM 11/01/2024



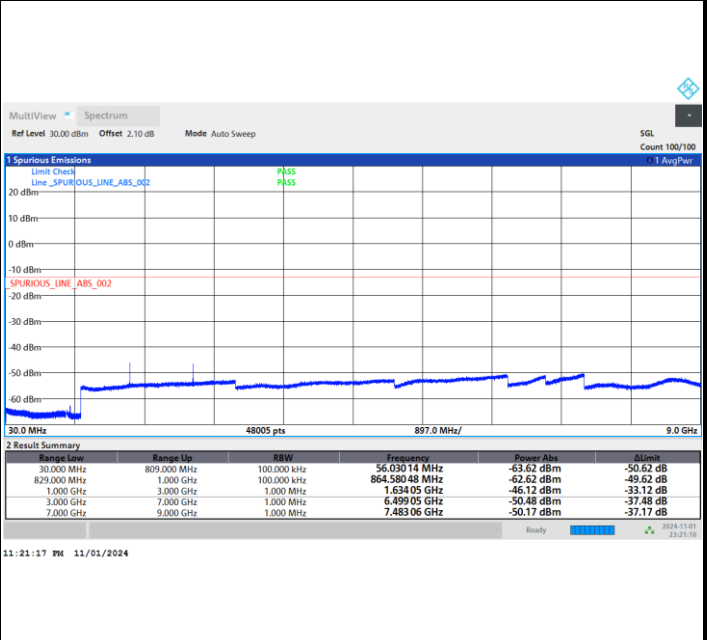
Emission masks – Out of band emissions

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

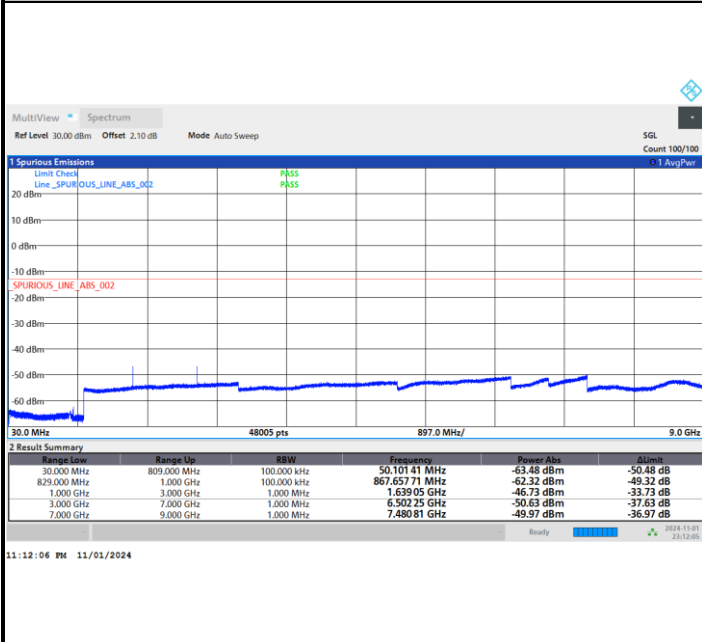
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0222	
-20	Normal Voltage	0.0052	
-30	Normal Voltage	0.0086	
20	Maximum Voltage	0.0127	
20	Normal Voltage	0.0001	
20	Minimum Voltage	0.0174	

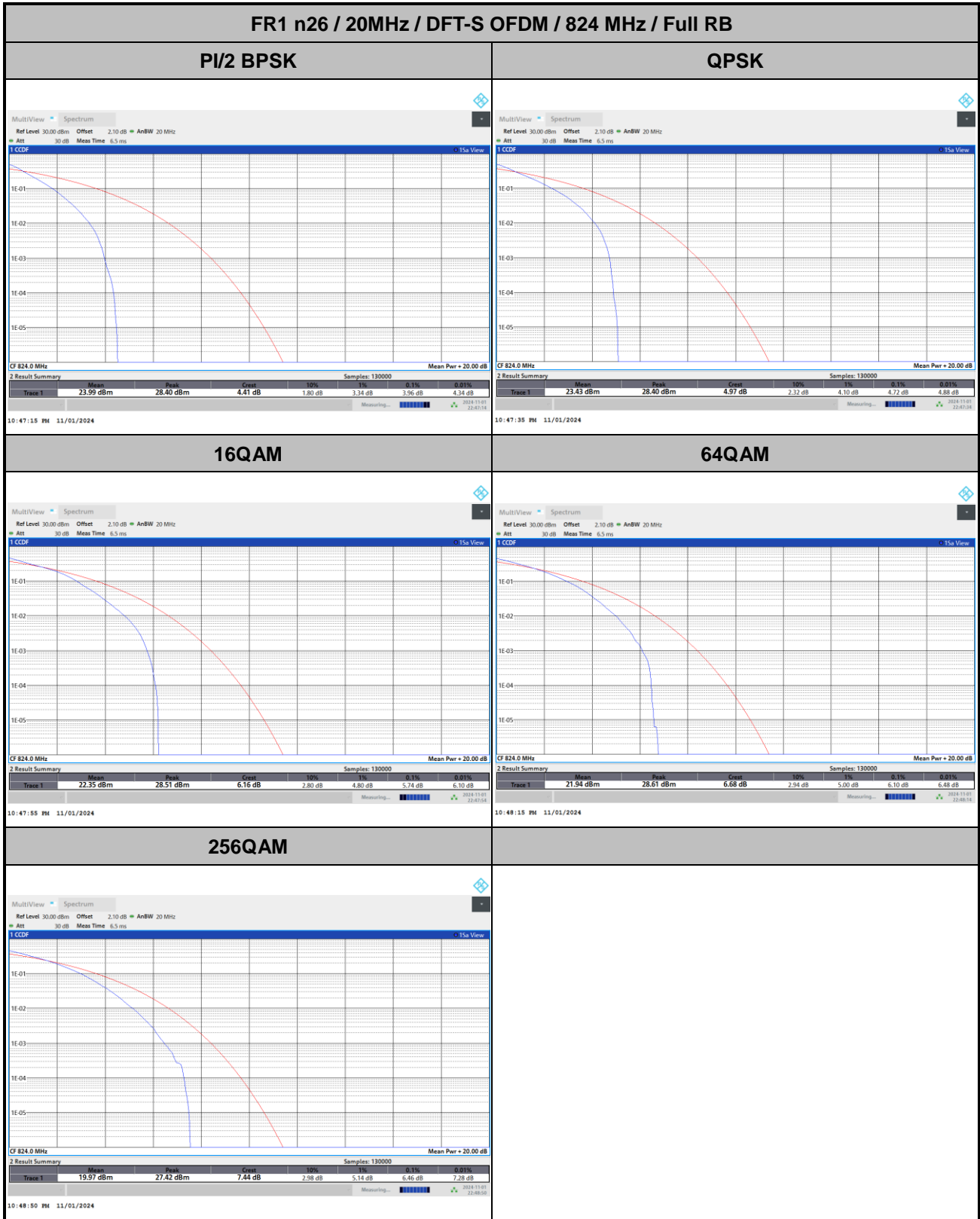
Note: Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 3.465 V.



FR1 n26 (Part90s Straddle Channel)

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	3.96	4.72	5.74	6.10	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
824 MHz	6.46				PASS





26dB Bandwidth

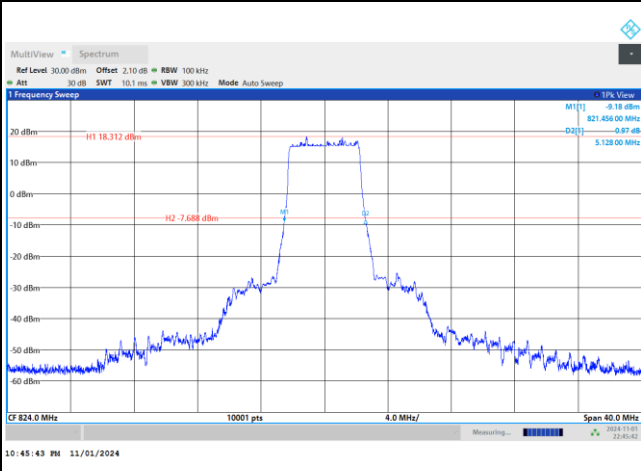
Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	PI/2 BPSK		PI/2 BPSK	
824 MHz	5.13	9.78	14.39	19.33

Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824 MHz	5.33	5.30	10.33	10.21	15.22	15.28	20.47	20.59
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824 MHz	5.27	5.27	10.20	10.27	15.25	15.22	20.38	20.48



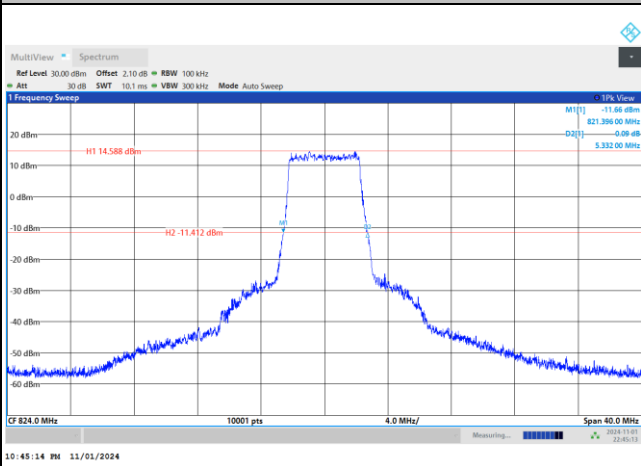
FR1 n26 / 5MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

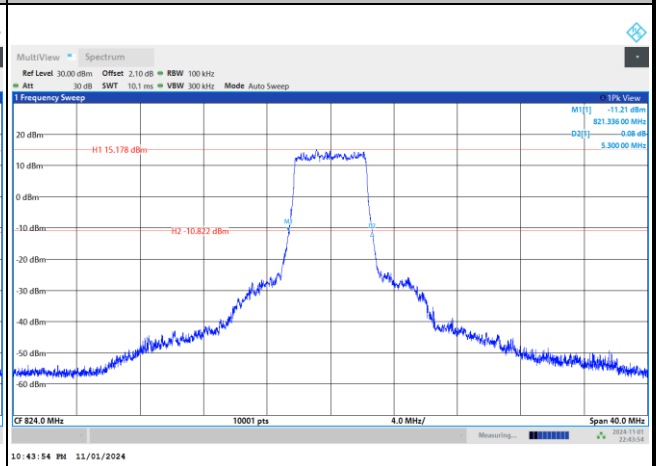


FR1 n26 / 5MHz / CP OFDM / 824 MHz / Full RB

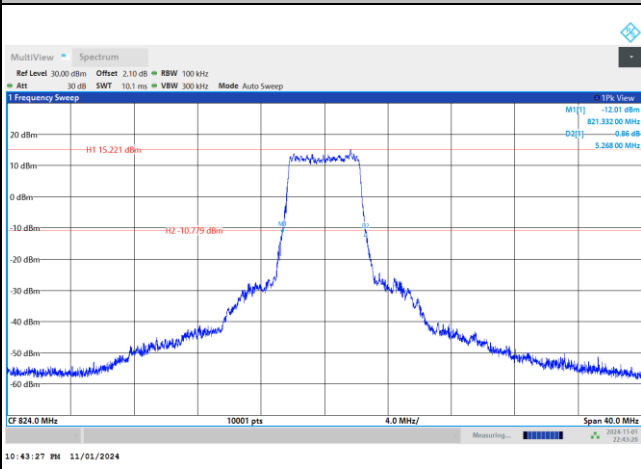
QPSK



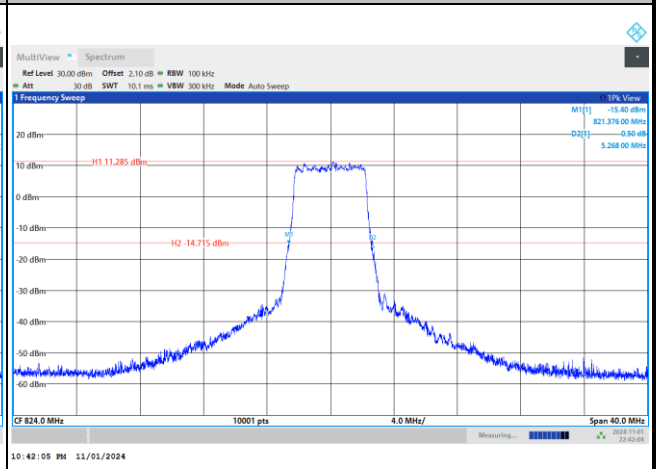
16QAM



64QAM



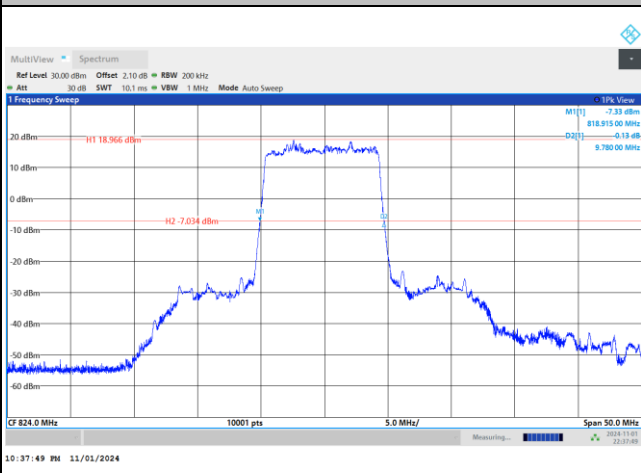
256QAM





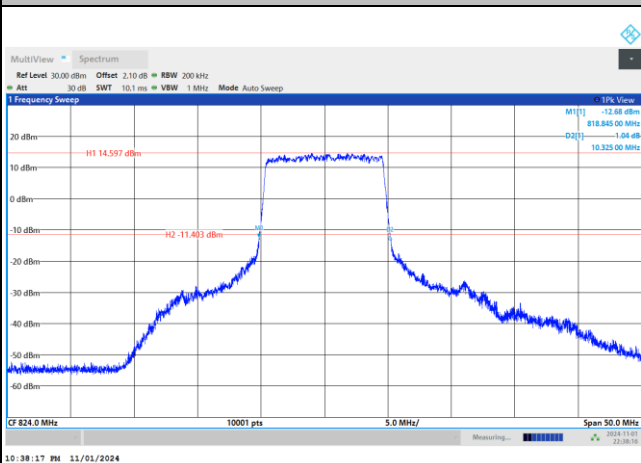
FR1 n26 / 10MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

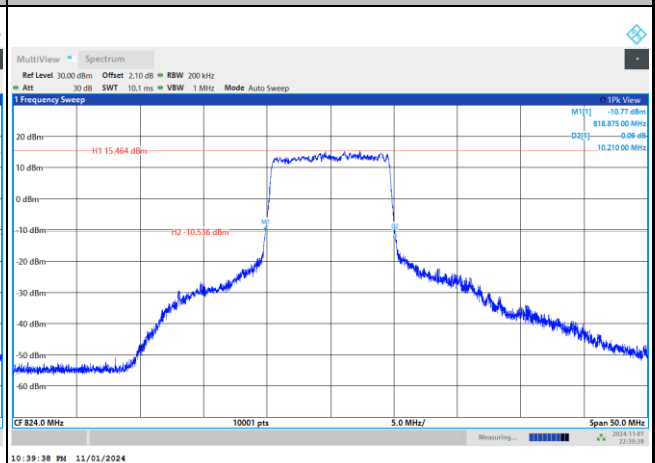


FR1 n26 / 10MHz / CP OFDM / 824 MHz / Full RB

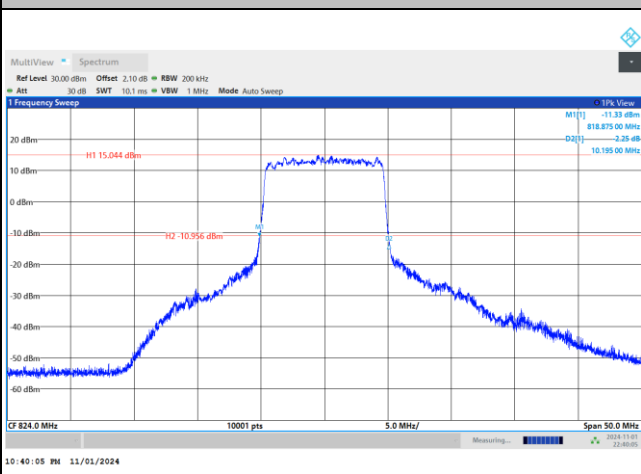
QPSK



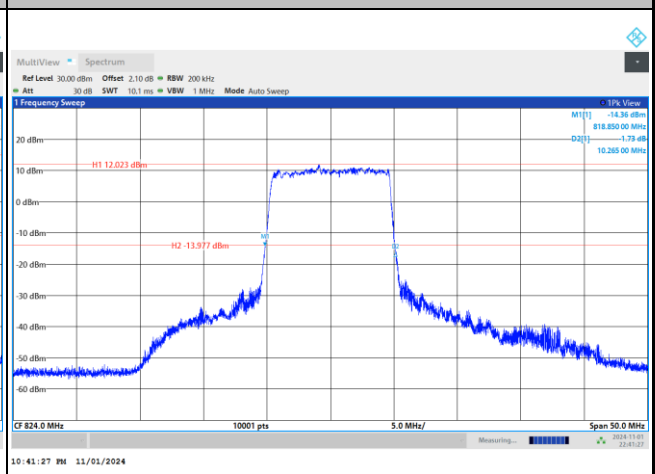
16QAM



64QAM



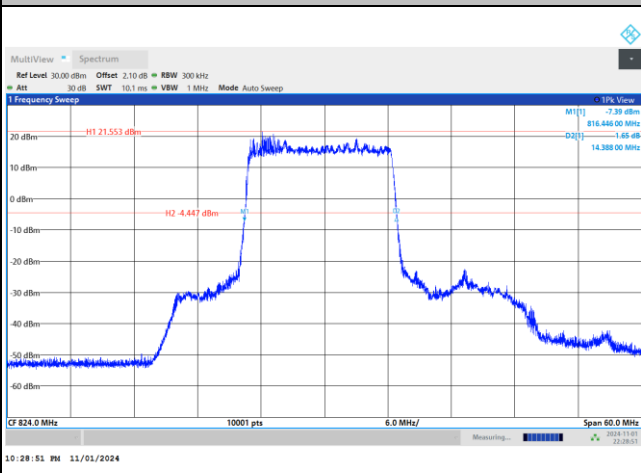
256QAM





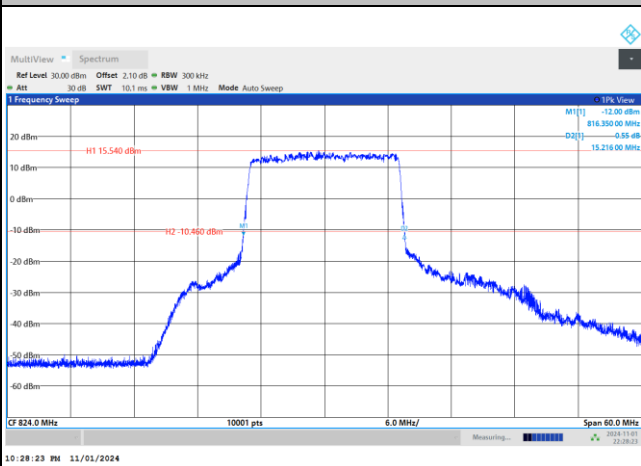
FR1 n26 / 15MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

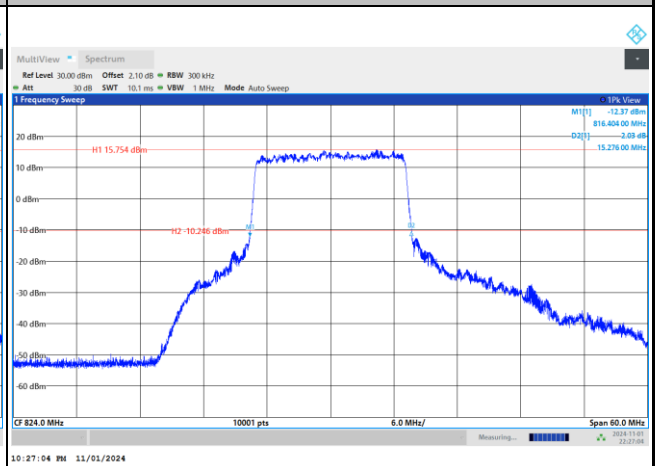


FR1 n26 / 15MHz / CP OFDM / 824 MHz / Full RB

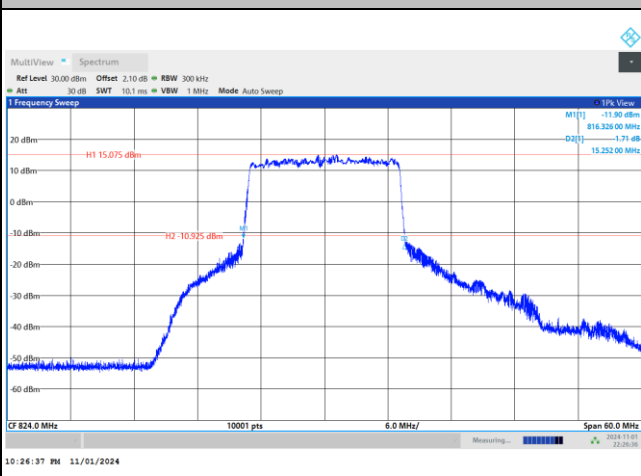
QPSK



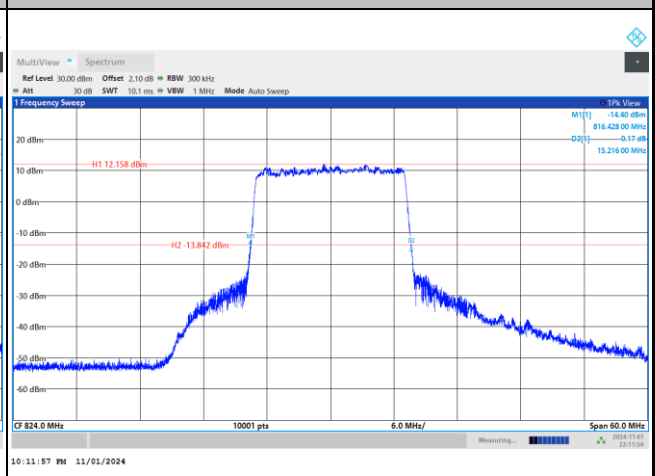
16QAM



64QAM



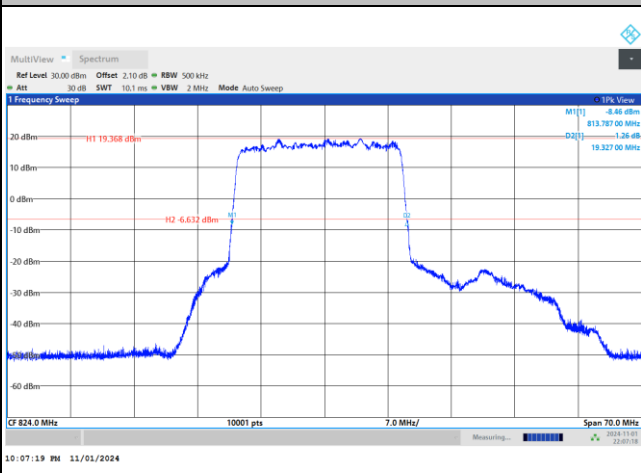
256QAM





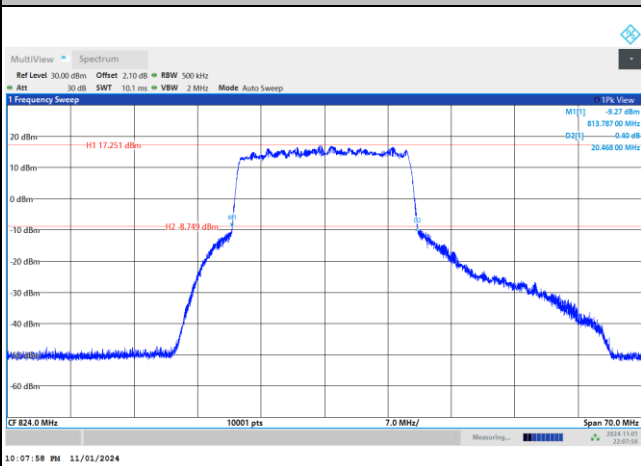
FR1 n26 / 20MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

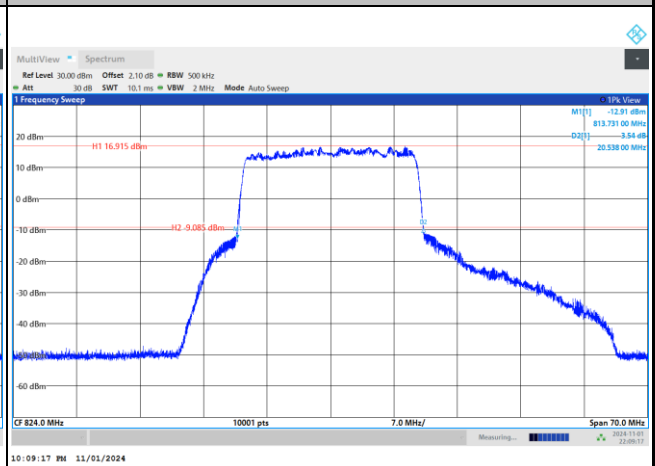


FR1 n26 / 20MHz / CP OFDM / 824 MHz / Full RB

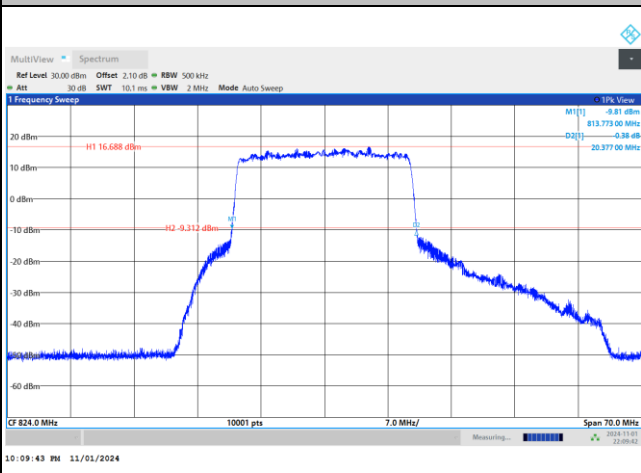
QPSK



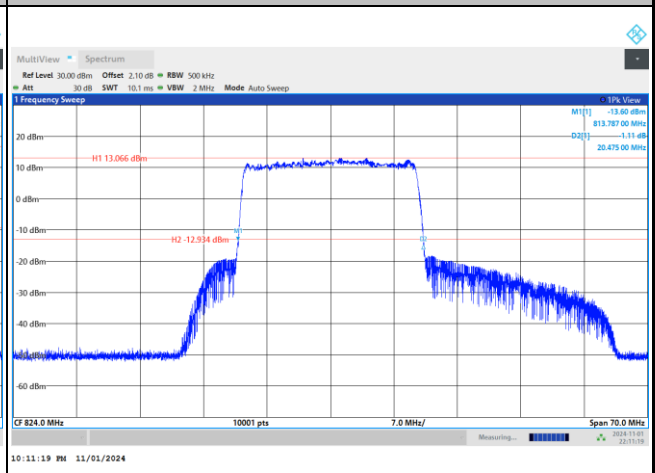
16QAM



64QAM



256QAM

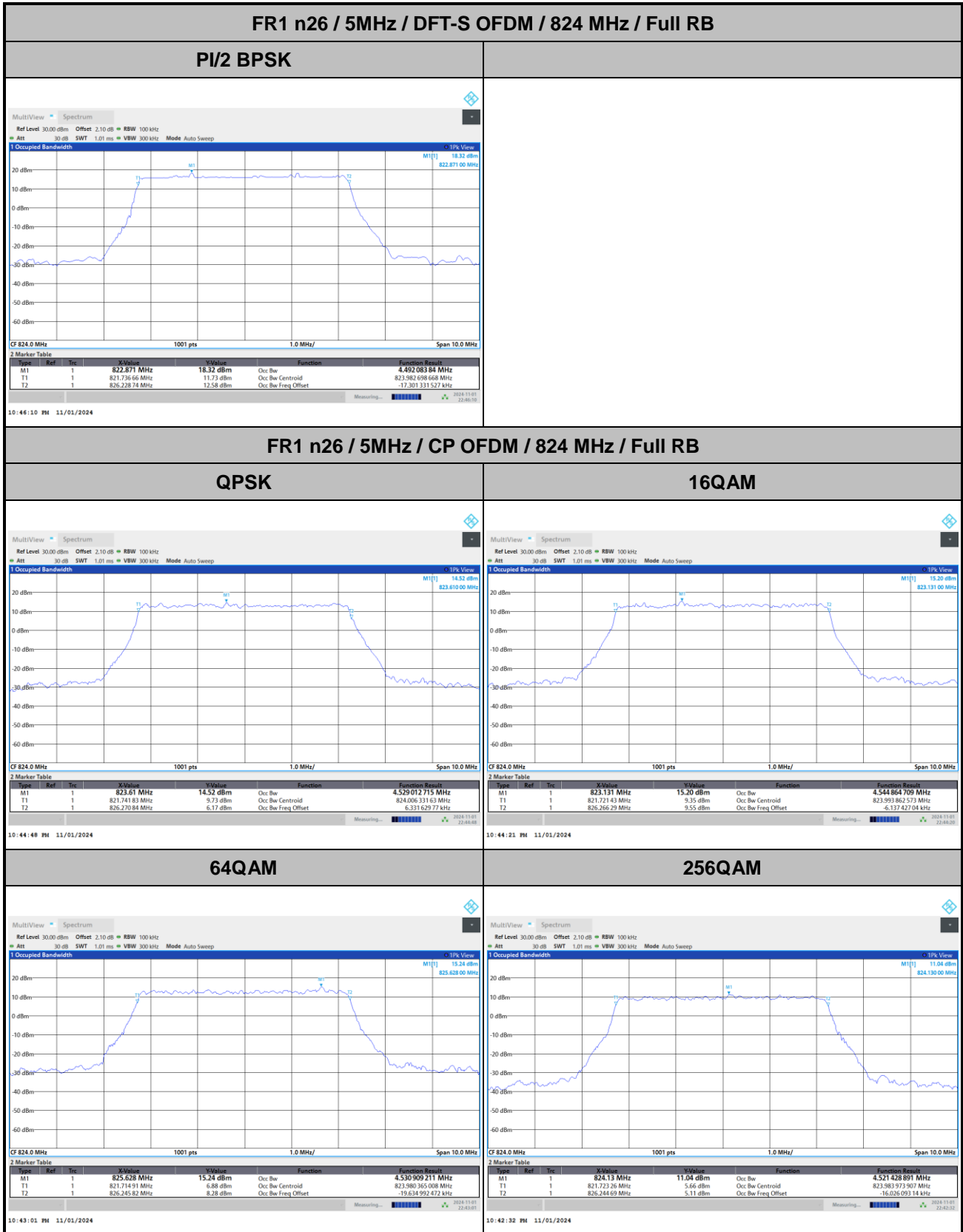




Occupied Bandwidth

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	4.49	8.96	13.43	17.95

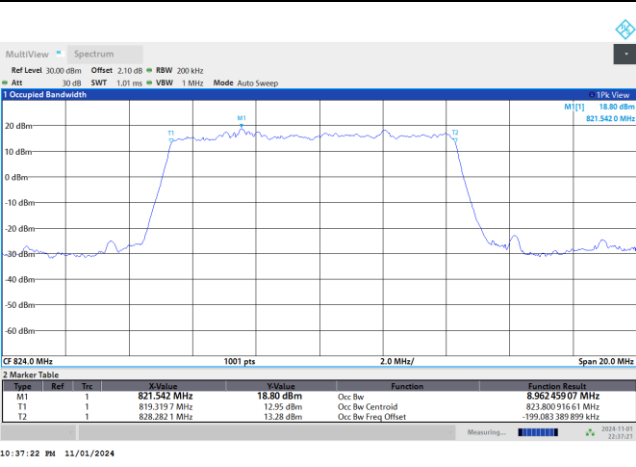
Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824 MHz	4.53	4.54	9.31	9.32	14.11	14.13	18.91	19.02
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824 MHz	4.53	4.52	9.27	9.34	14.17	14.09	18.99	19.07





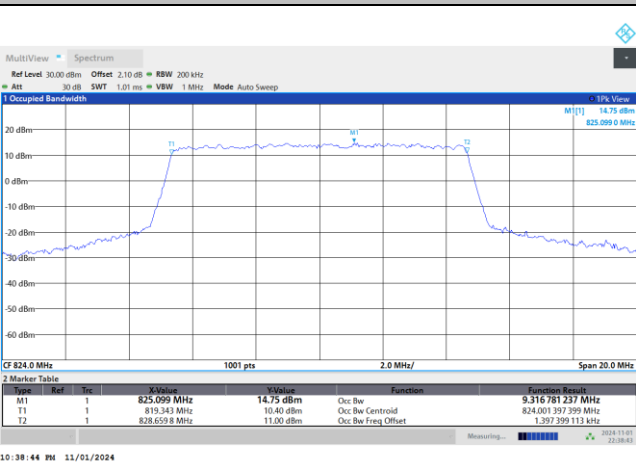
FR1 n26 / 10MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

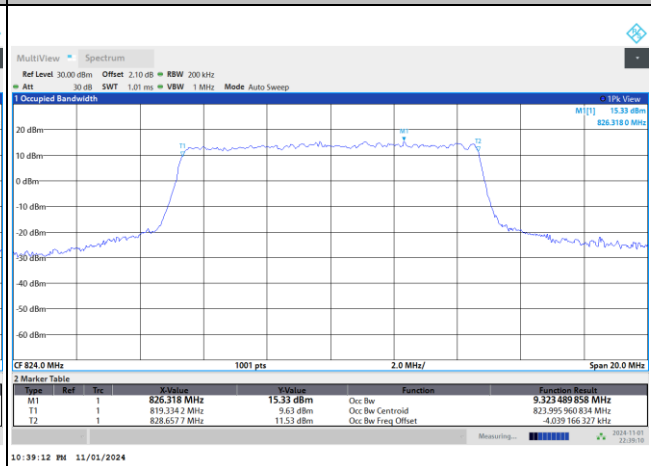


FR1 n26 / 10MHz / CP OFDM / 824 MHz / Full RB

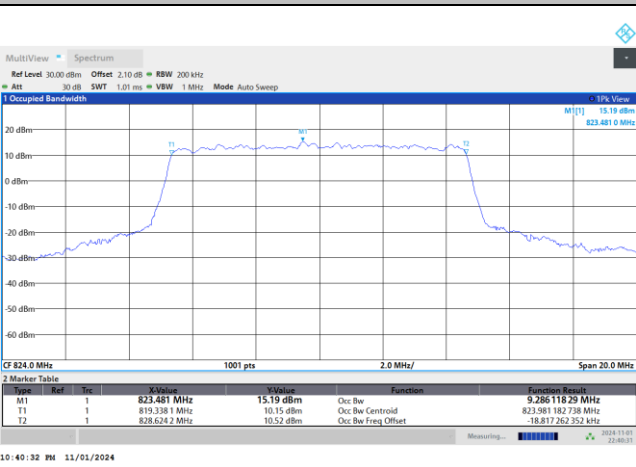
QPSK



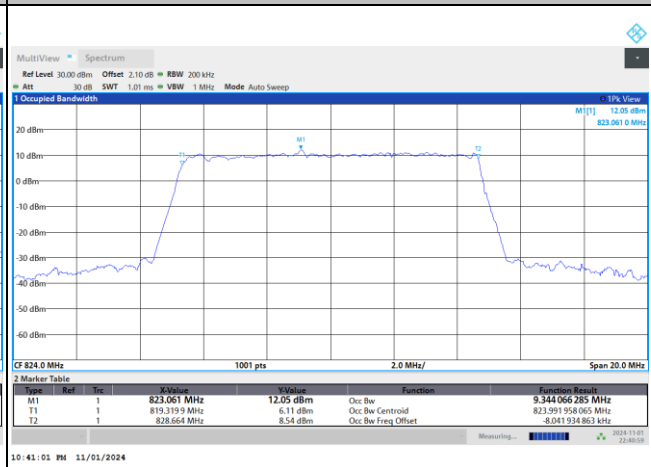
16QAM



64QAM



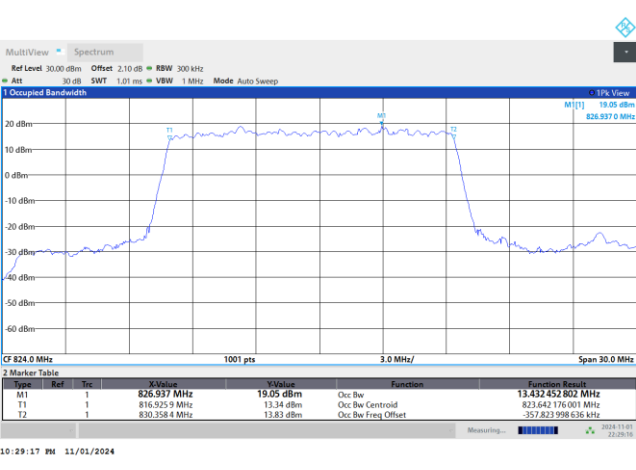
256QAM





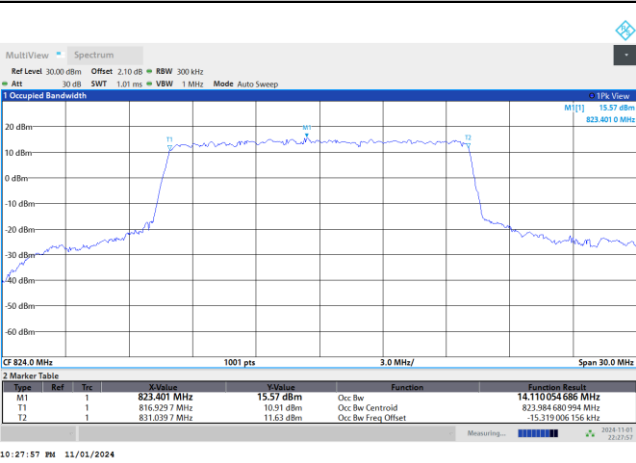
FR1 n26 / 15MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

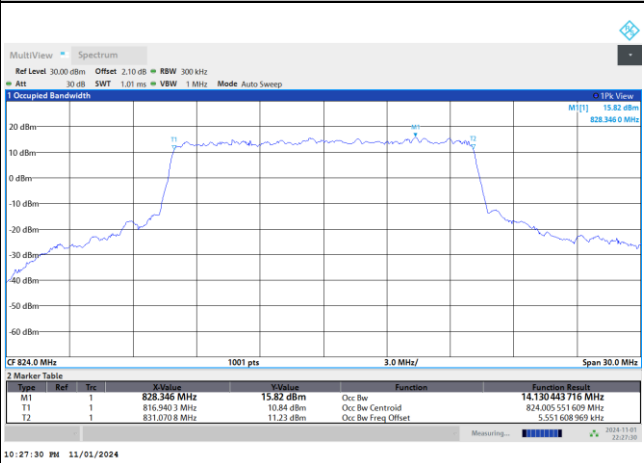


FR1 n26 / 15MHz / CP OFDM / 824 MHz / Full RB

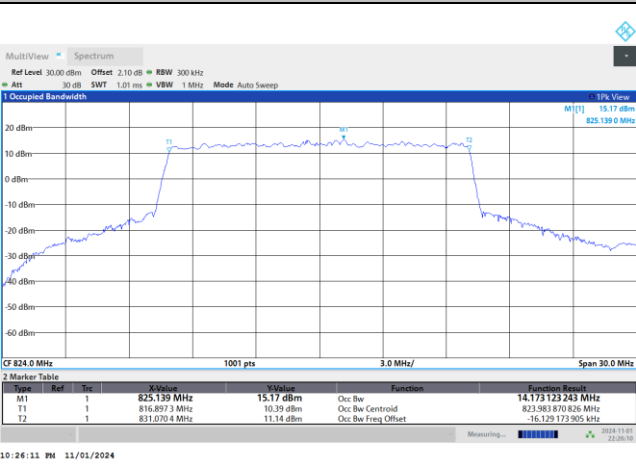
QPSK



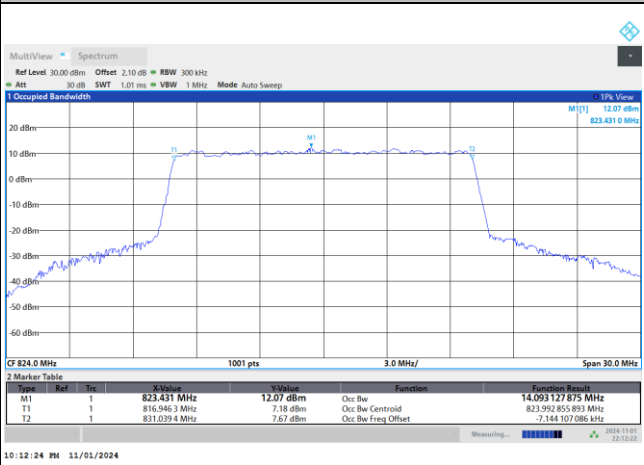
16QAM



64QAM



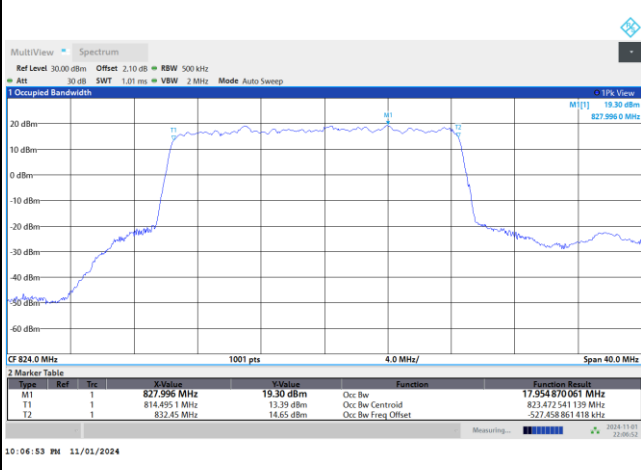
256QAM





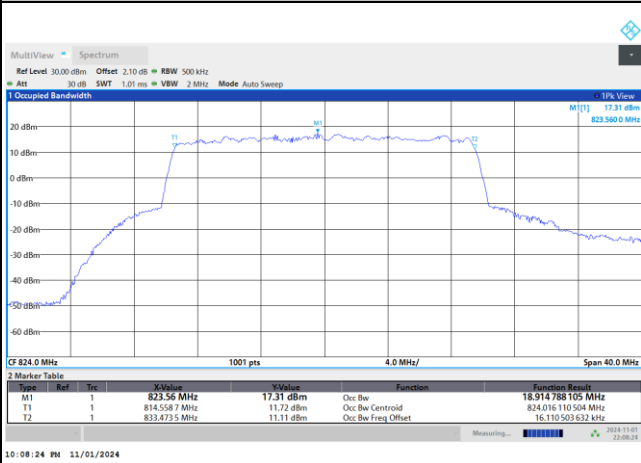
FR1 n26 / 20MHz / DFT-S OFDM / 824 MHz / Full RB

PI/2 BPSK

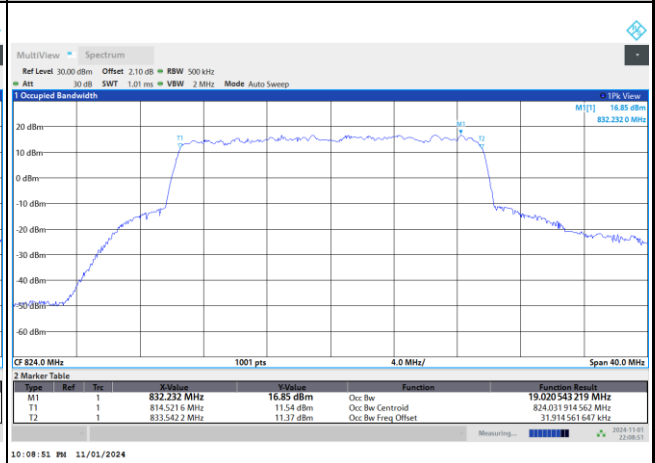


FR1 n26 / 20MHz / CP OFDM / 824 MHz / Full RB

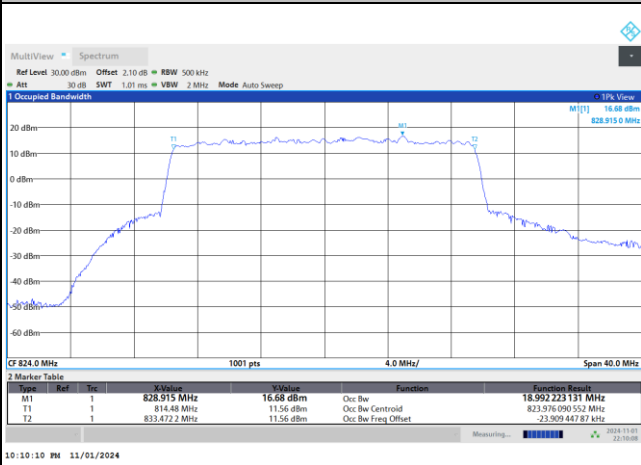
QPSK



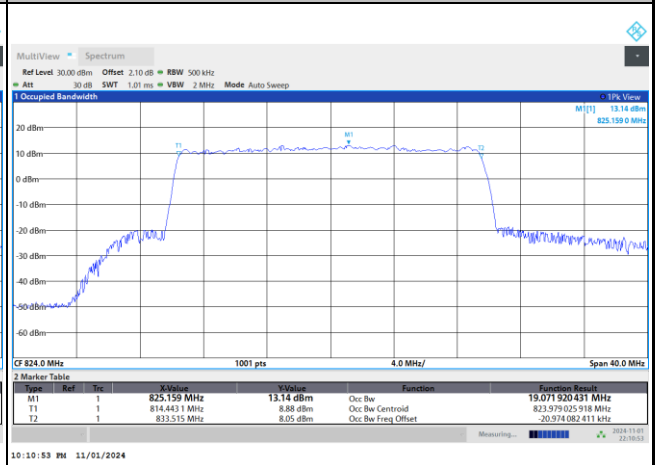
16QAM



64QAM



256QAM





Frequency Stability

Test Conditions		FR1 n26 (BPSK) / 824 MHz	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0045	PASS
40	Normal Voltage	0.0105	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0088	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0064	
20	Normal Voltage	0.0033	
20	Minimum Voltage	0.0085	

Note: Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 3.465 V.



FR1 n30

Peak-to-Average Ratio

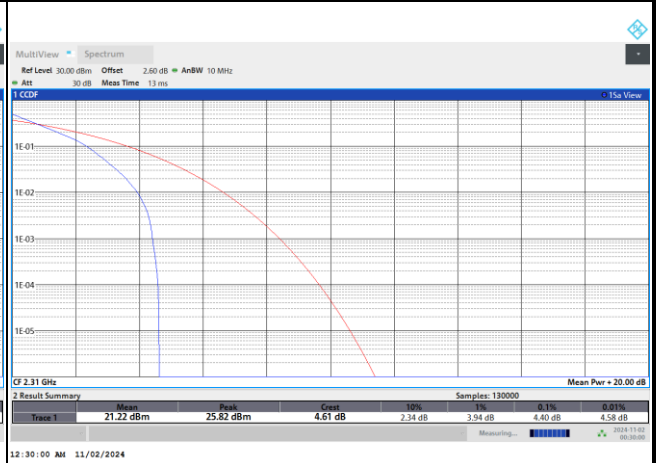
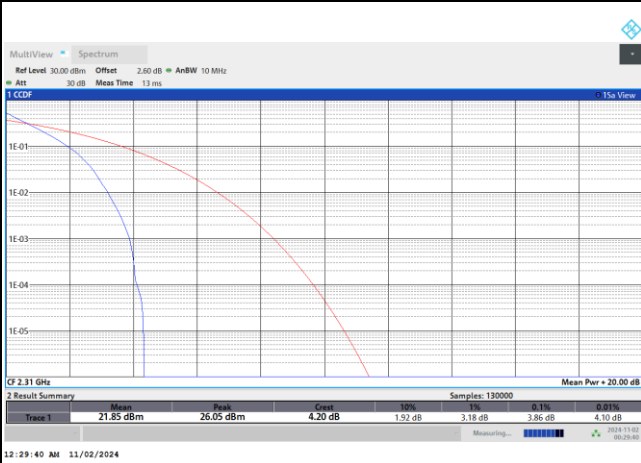
Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.86	4.40	5.42	5.86	PASS
Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.72				PASS



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

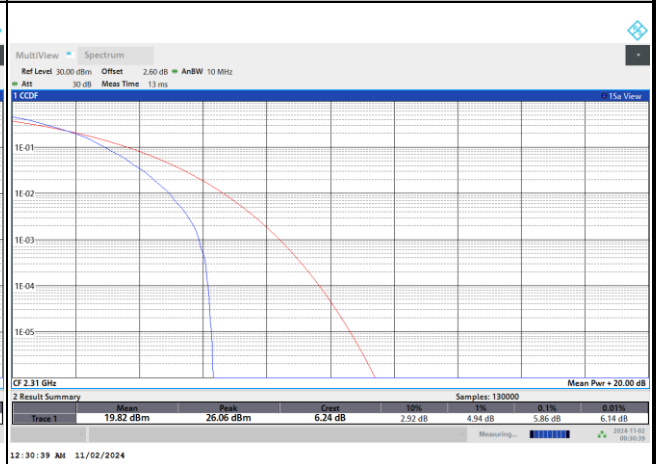
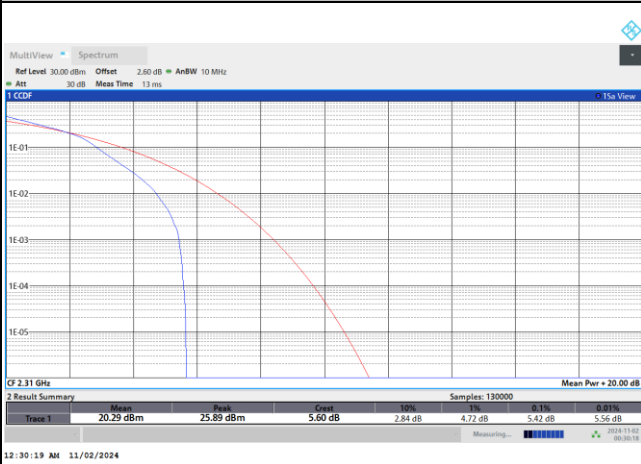
PI/2 BPSK

QPSK

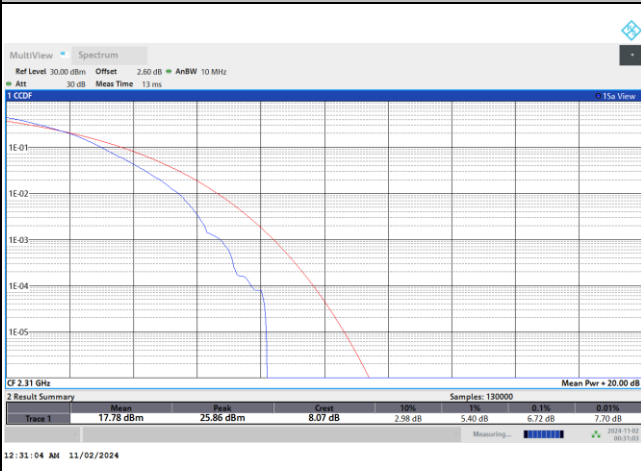


16QAM

64QAM



256QAM





26dB Bandwidth

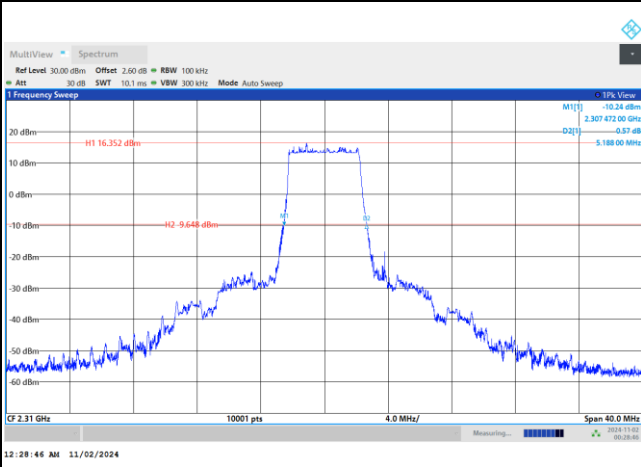
Mode	FR1 n30 : 26dB BW(MHz) / DFT-S OFDM					
BW	5MHz		10MHz			
Mod.	PI/2 BPSK		PI/2 BPSK			
Middle CH	5.18		9.82			

Mode	FR1 n30 : 26dB BW(MHz) / CP OFDM					
BW	5MHz		10MHz			
Mod.	QPSK	16QAM	QPSK	16QAM		
Middle CH	5.23	5.26	10.21	10.24		
Mod.	64QAM	256QAM	64QAM	256QAM		
Middle CH	5.24	5.31	10.25	10.31		



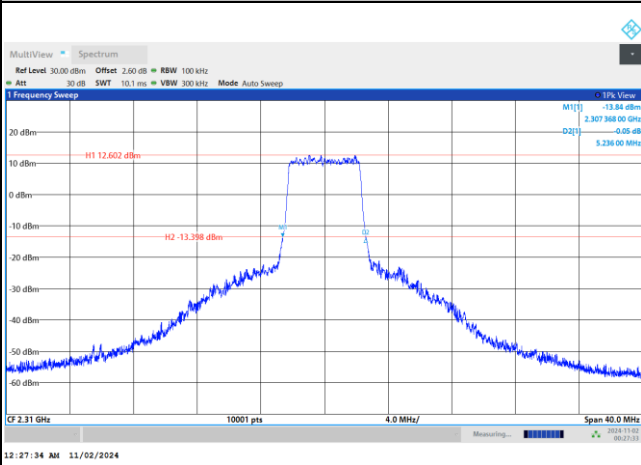
FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

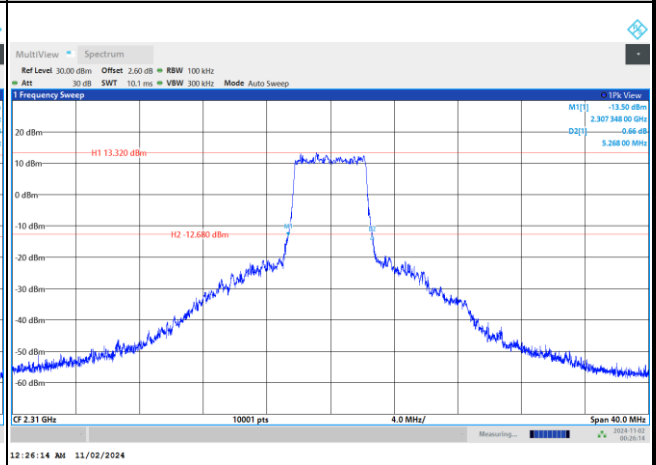


FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB

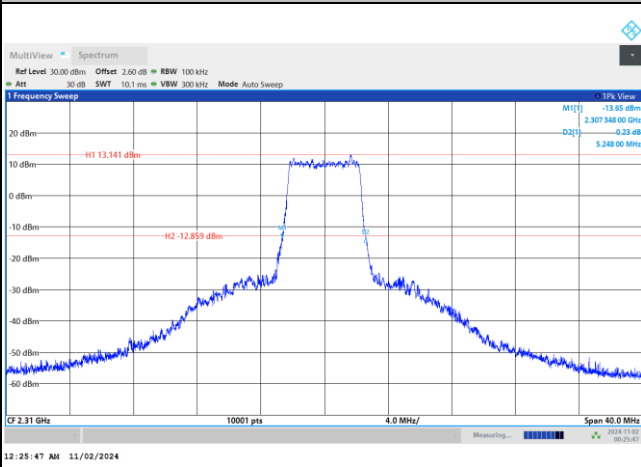
QPSK



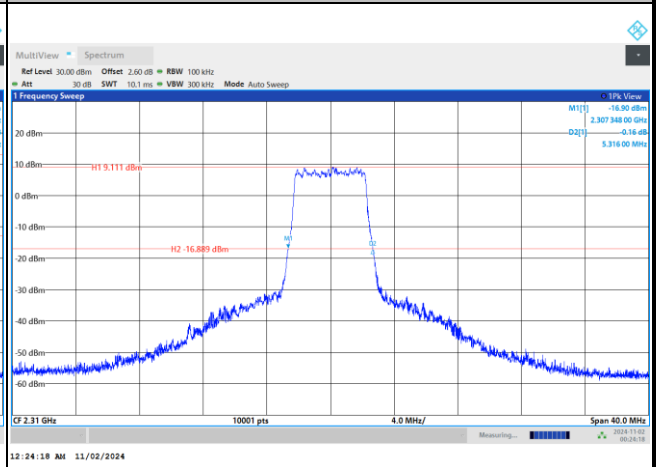
16QAM



64QAM



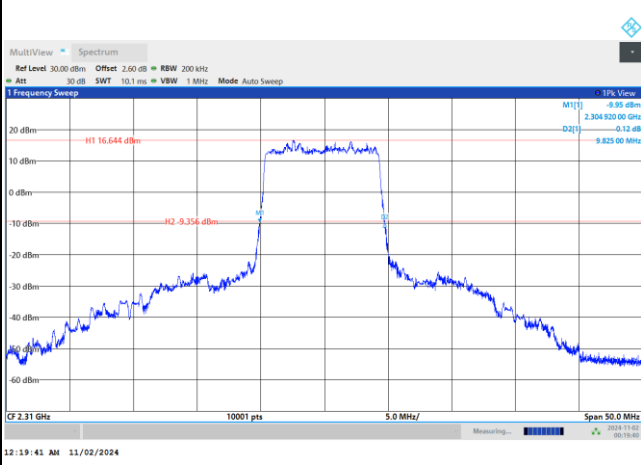
256QAM





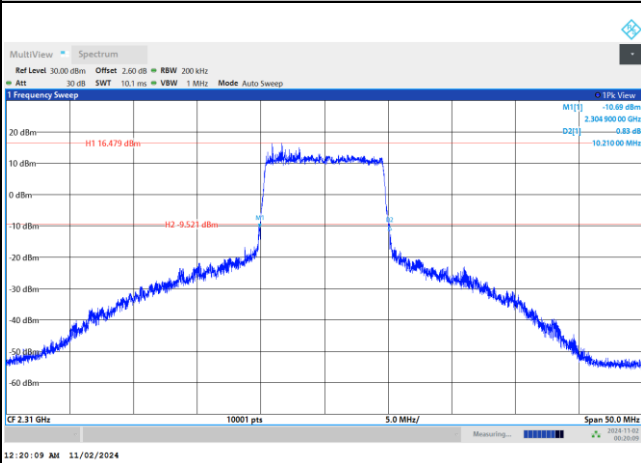
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

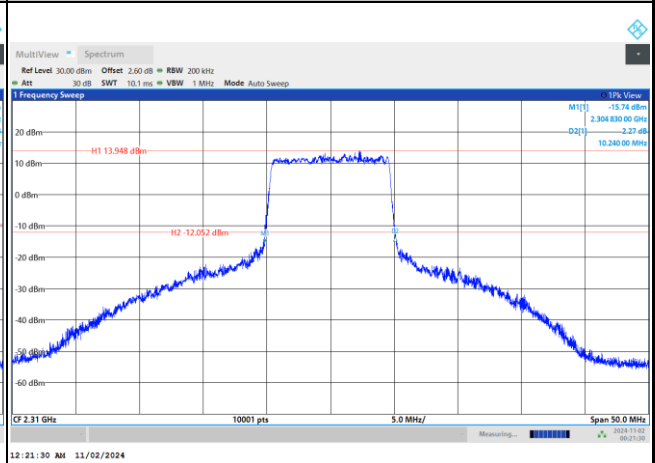


FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB

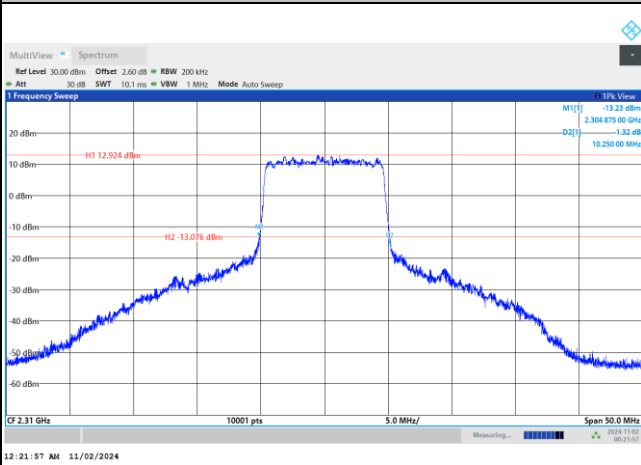
QPSK



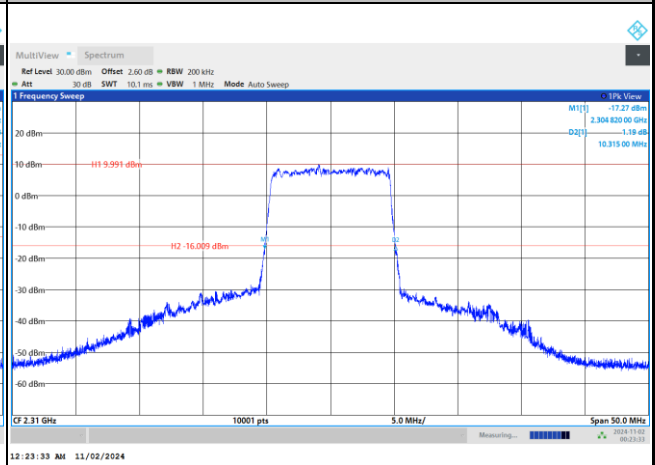
16QAM



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	4.49		8.97			

Mode	FR1 n30 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.52	4.53	9.31	9.34				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.54	4.51	9.30	9.34				