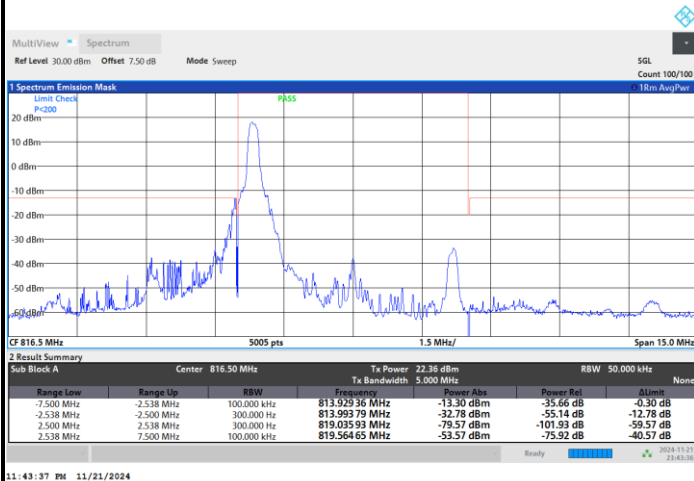




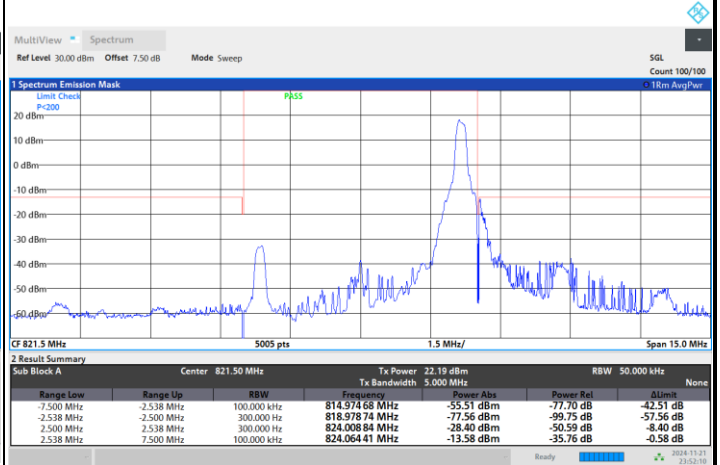
FR1 n26 / 5MHz / DFT-S OFDM / 16QAM

Lowest MASK / 1RB0



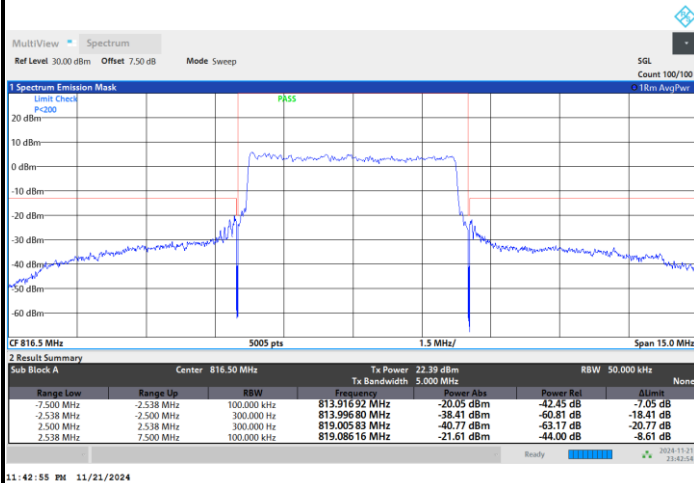
11:43:37 PM 11/21/2024

Highest MASK / 1RBmax



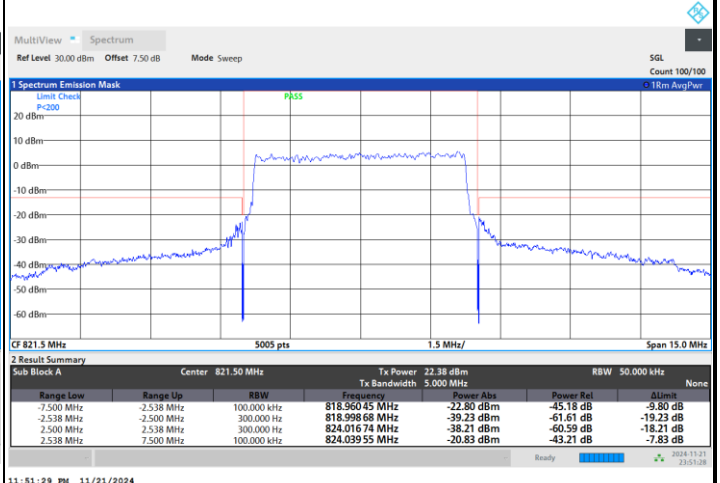
11:52:11 PM 11/21/2024

Lowest MASK / Full RB



11:42:58 PM 11/21/2024

Highest MASK / Full RB

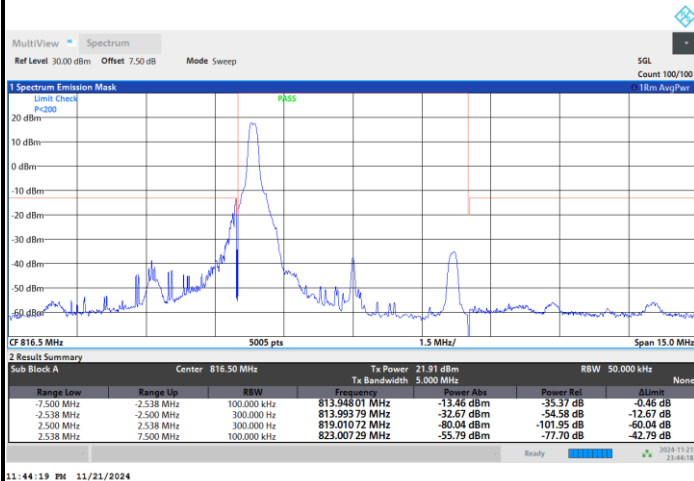


11:51:29 PM 11/21/2024



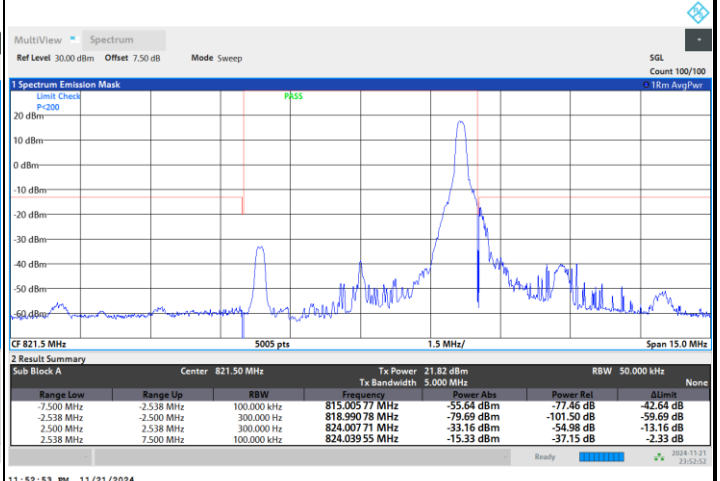
FR1 n26 / 5MHz / DFT-S OFDM / 64QAM

Lowest MASK / 1RB0



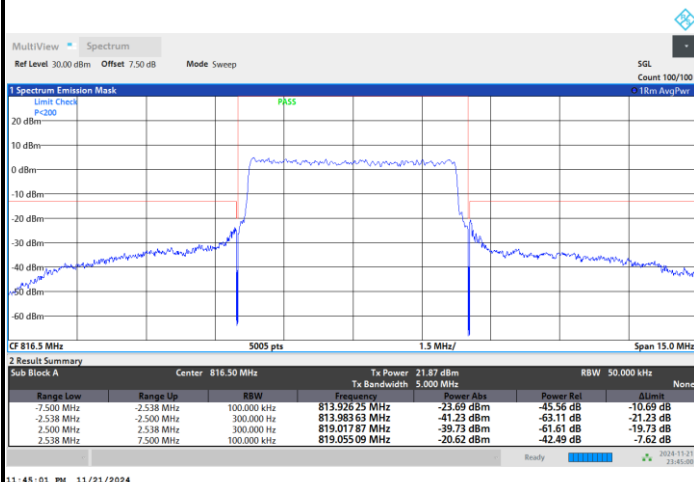
11:44:19 PM 11/21/2024

Highest MASK / 1RBmax



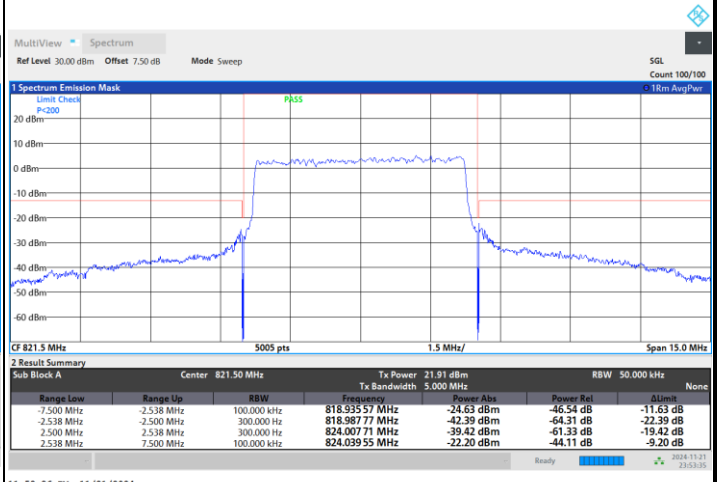
11:52:53 PM 11/21/2024

Lowest MASK / Full RB



11:45:01 PM 11/21/2024

Highest MASK / Full RB

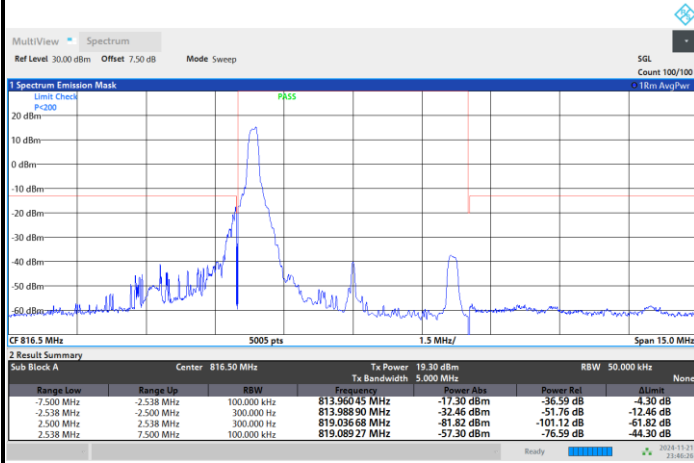


11:53:36 PM 11/21/2024



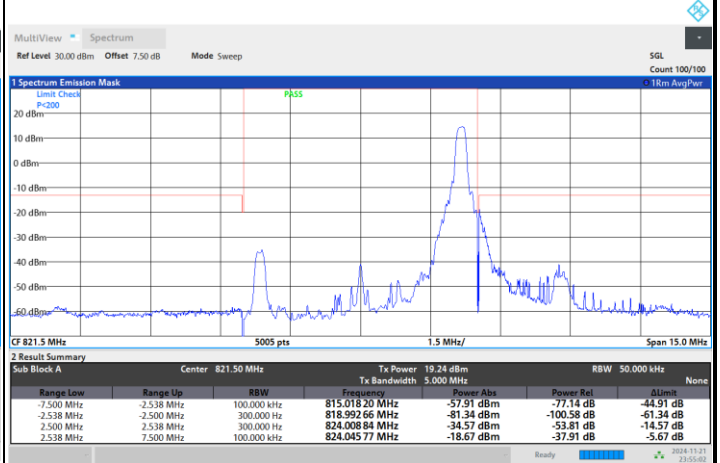
FR1 n26 / 5MHz / DFT-S OFDM / 256QAM

Lowest MASK / 1RB0



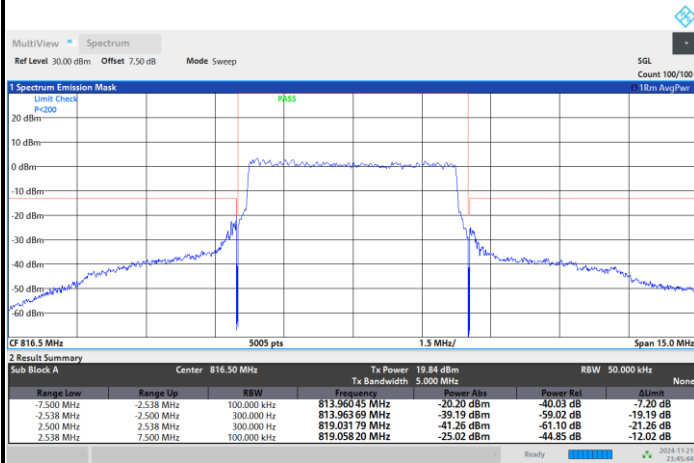
11:46:27 PM 11/21/2024

Highest MASK / 1RBmax



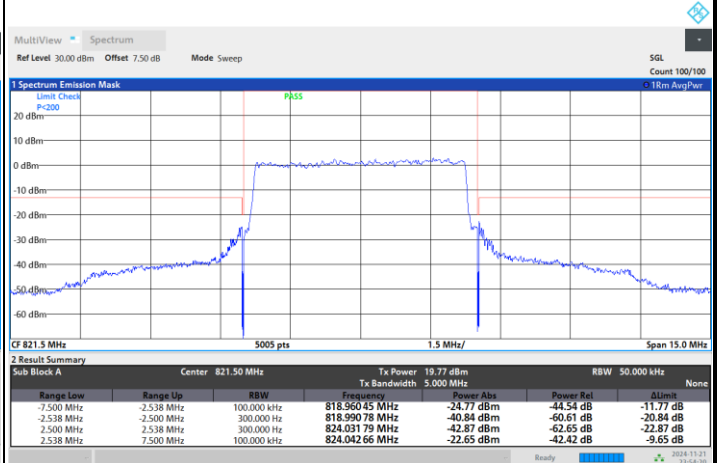
11:55:03 PM 11/21/2024

Lowest MASK / Full RB



11:48:48 PM 11/21/2024

Highest MASK / Full RB

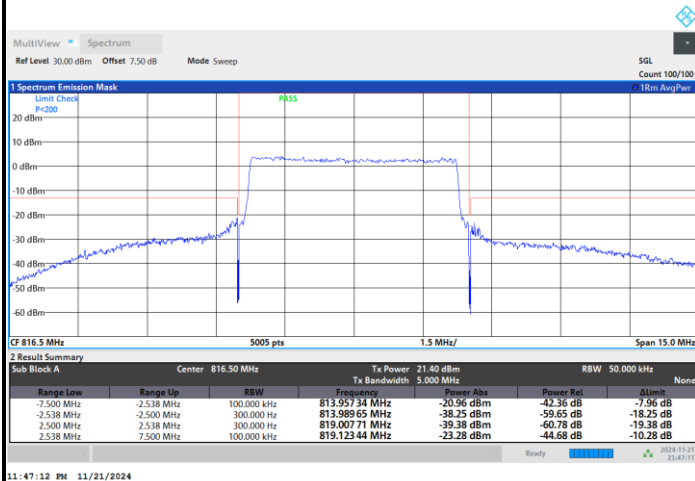


11:54:21 PM 11/21/2024



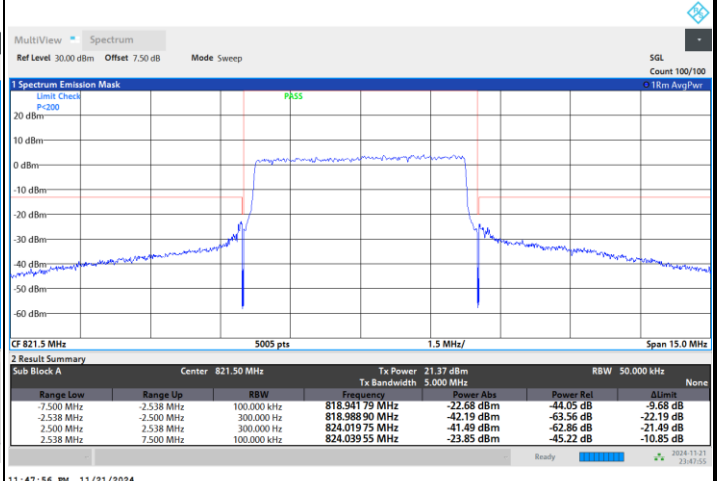
FR1 n26 / 5MHz / CP OFDM / QPSK / Full RB

Lowest MASK

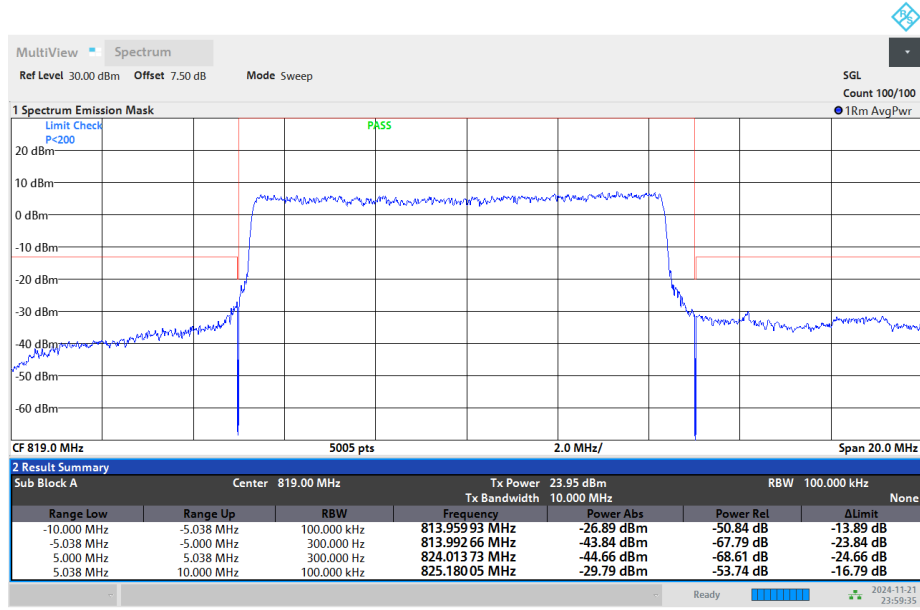


11:47:12 PM 11/21/2024

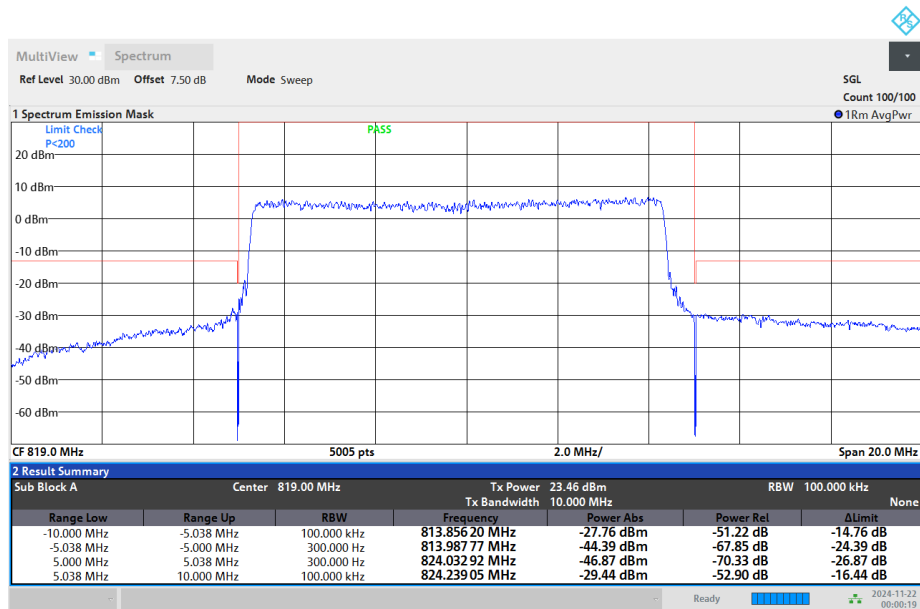
Highest MASK



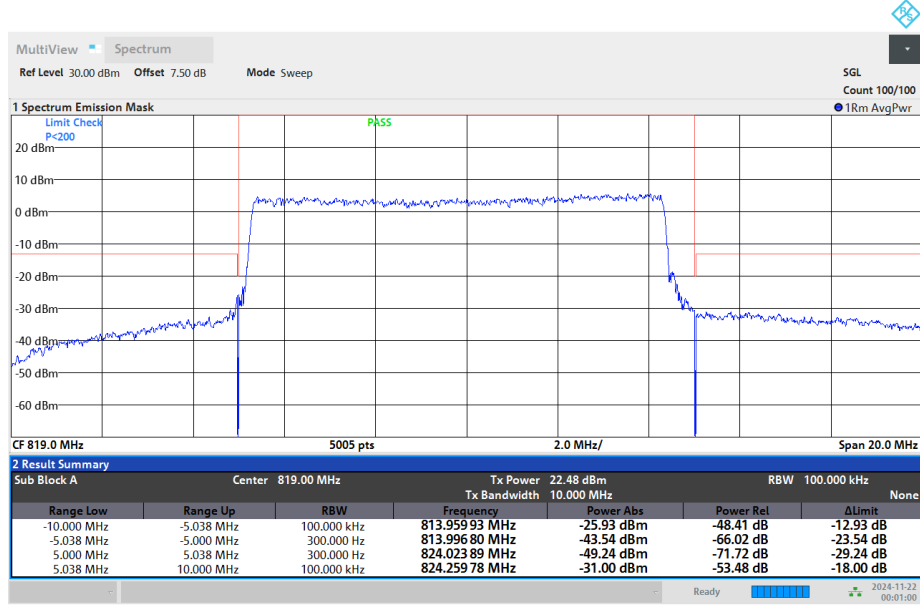
11:47:56 PM 11/21/2024

**FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK****Middle MASK / Full RB**

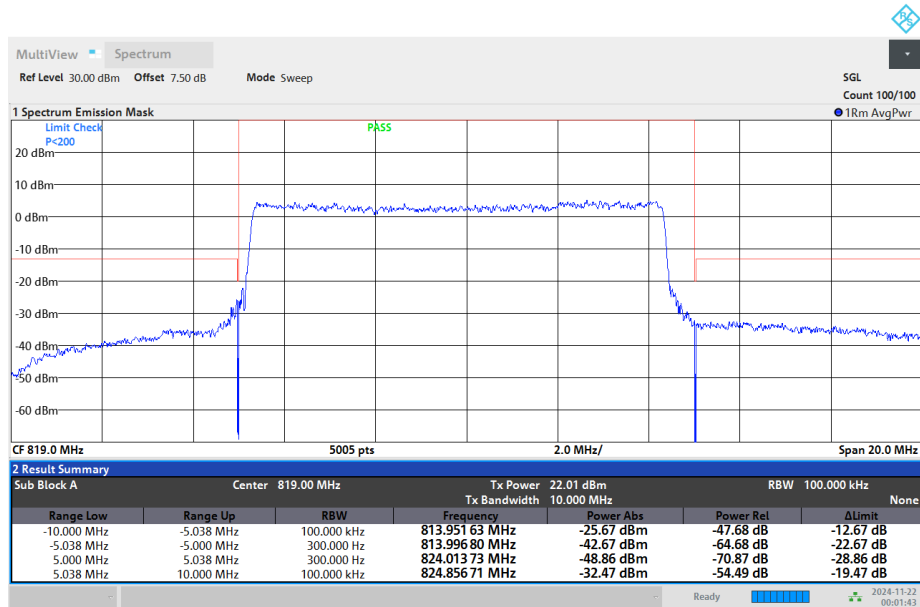
11:59:36 PM 11/21/2024

FR1 n26 / 10MHz / DFT-s-OFDM / QPSK**Lowest MASK / Full RB**

12:00:20 AM 11/22/2024

**FR1 n26 / 10MHz / DFT-s-OFDM / 16QAM****Middle MASK / Full RB**

12:01:01 AM 11/22/2024

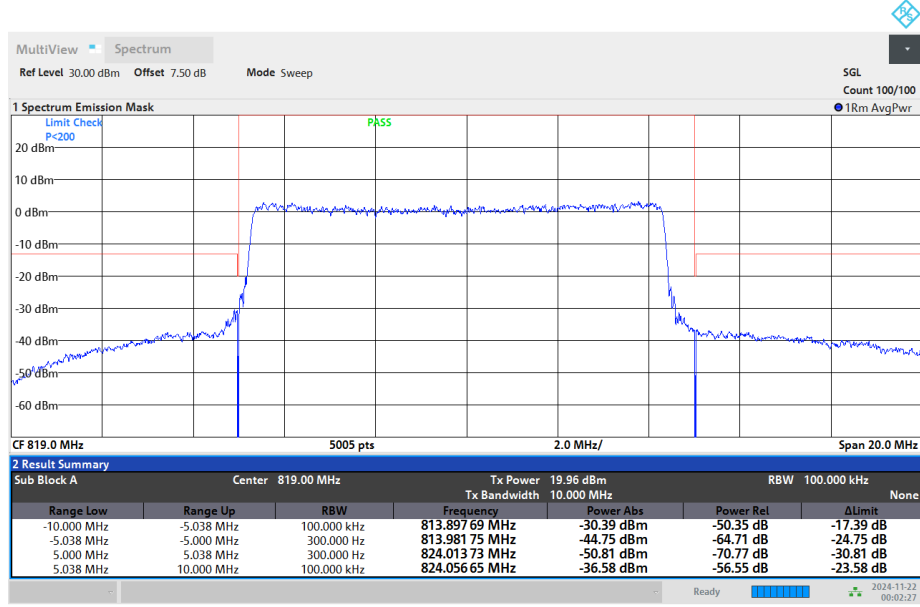
FR1 n26 / 10MHz / DFT-s-OFDM / 64QAM**Middle MASK / Full RB**

12:01:44 AM 11/22/2024



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

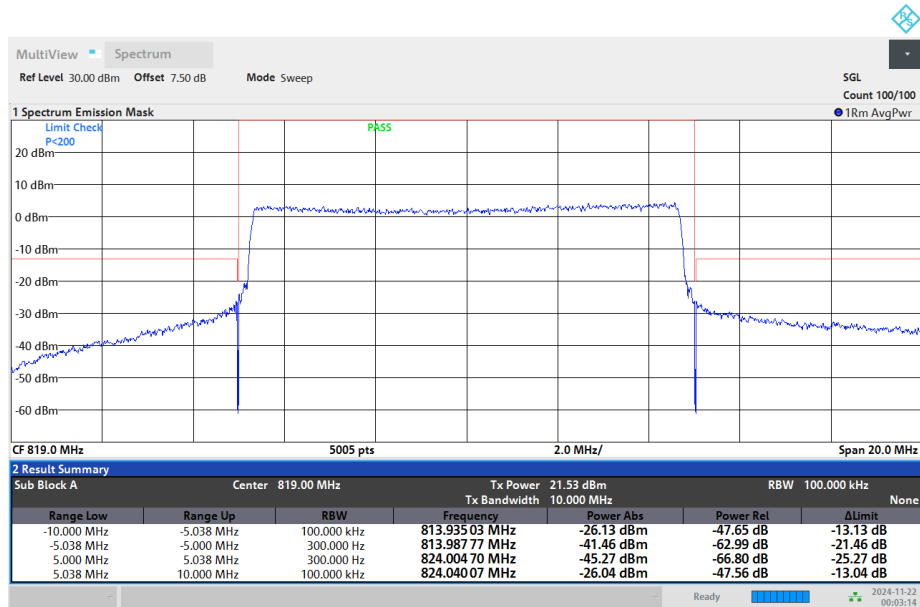
Middle MASK / Full RB



12:02:28 AM 11/22/2024

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

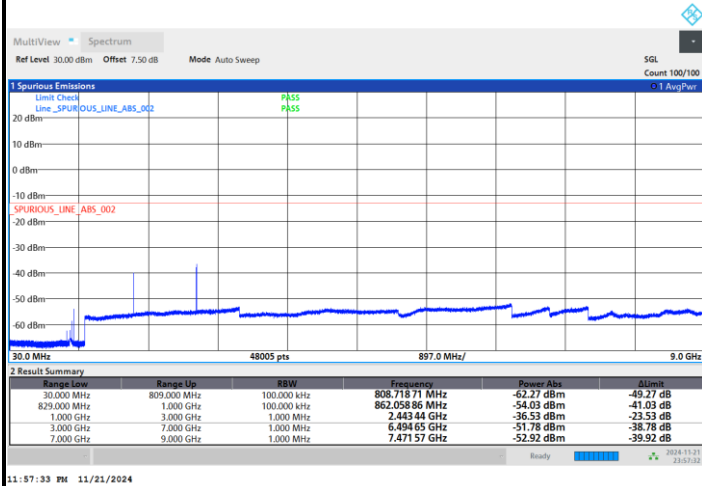
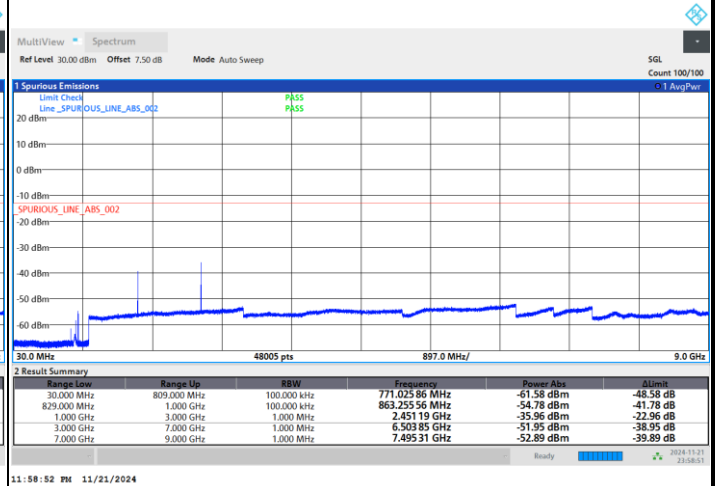
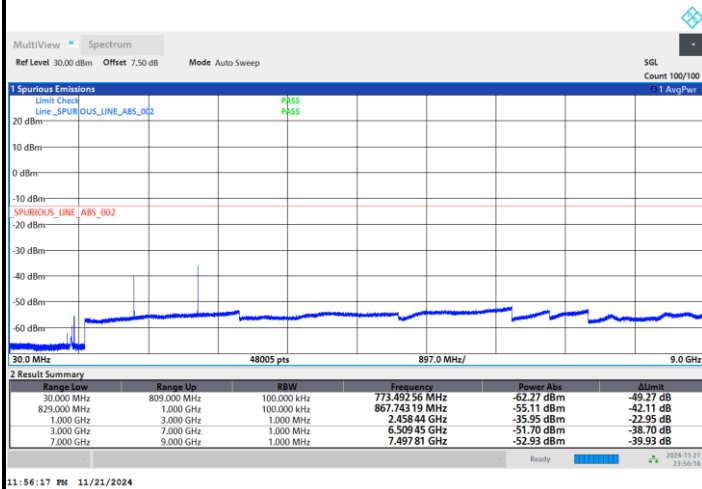
Middle MASK



12:03:14 AM 11/22/2024

**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	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0046	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0019	
20	Maximum Voltage	0.0039	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0008	

Note: Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.



Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5 ppm
		Result	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0024	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0004	

Note: Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.

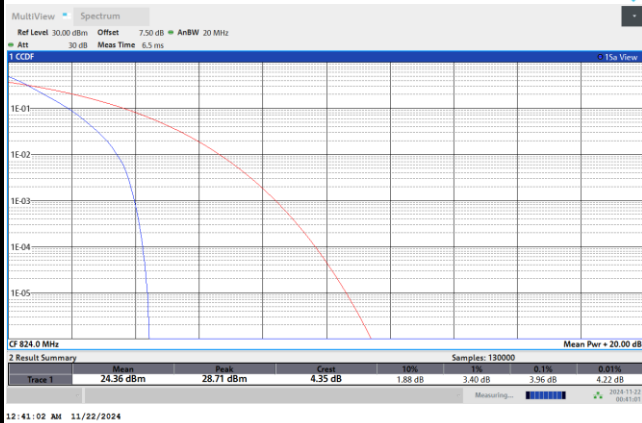
**FR1 n26 Part90s Straddle Channel****Peak-to-Average Ratio**

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
824MHz	3.96	4.76	5.78	6.10	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
824MHz	6.76				PASS

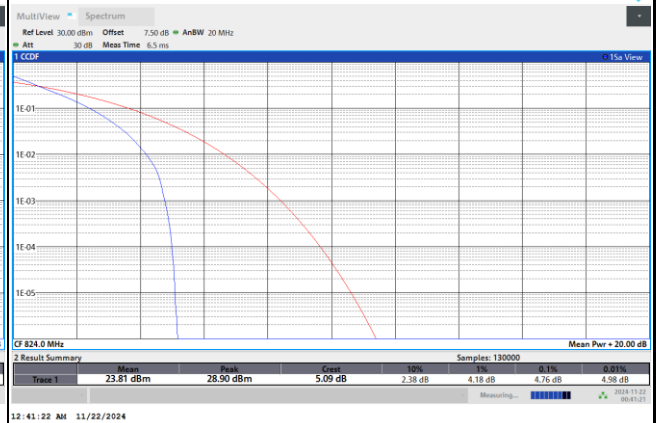


FR1 n26 / 20MHz / DFT-S OFDM / 824MHz / Full RB

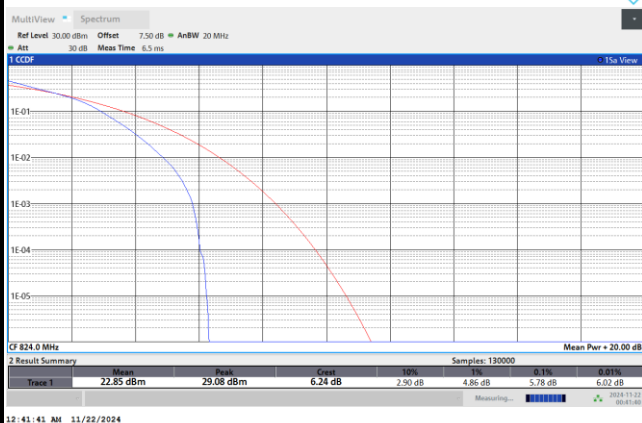
PI/2 BPSK



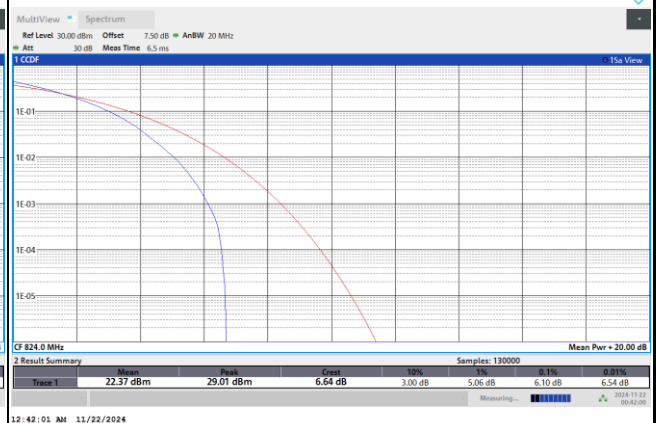
QPSK



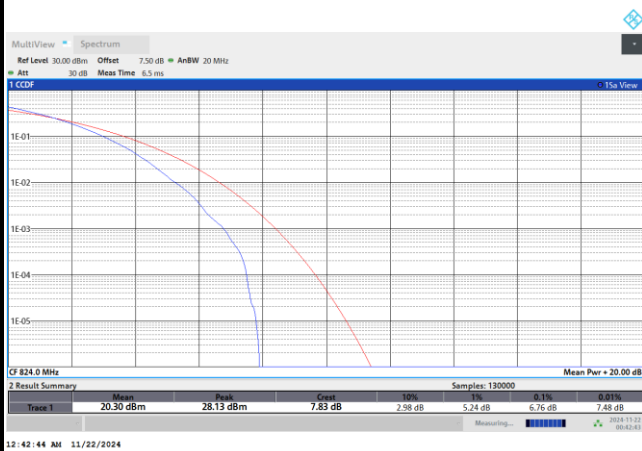
16QAM



64QAM



256QAM



**26dB Bandwidth**

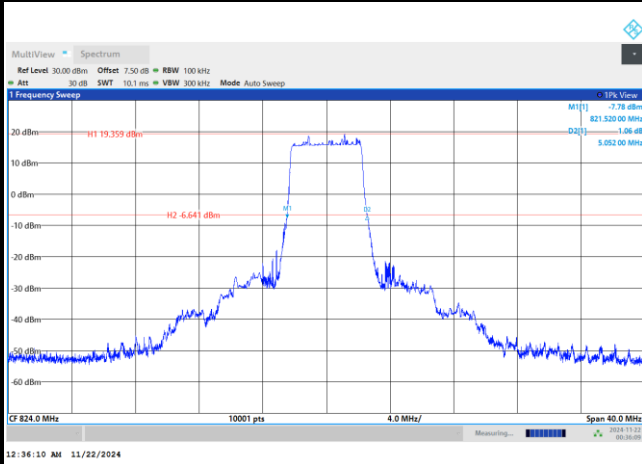
Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
824MHz	5.05		9.81		14.47		19.39	

Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824MHz	5.41	5.25	10.31	10.23	15.25	15.33	20.44	20.55
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824MHz	5.27	5.24	10.16	10.25	15.27	15.43	20.39	20.47



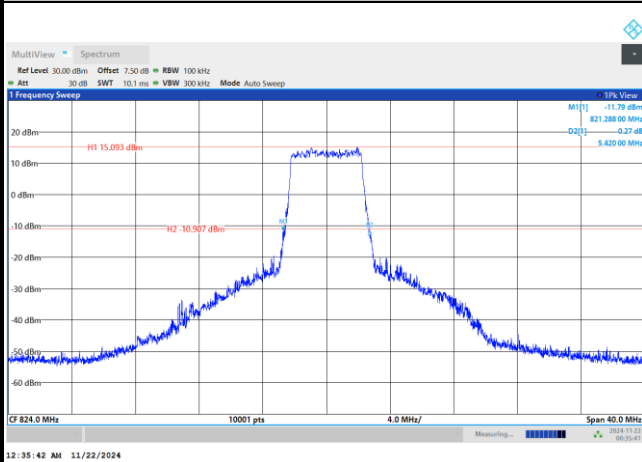
FR1 n26 / 5MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

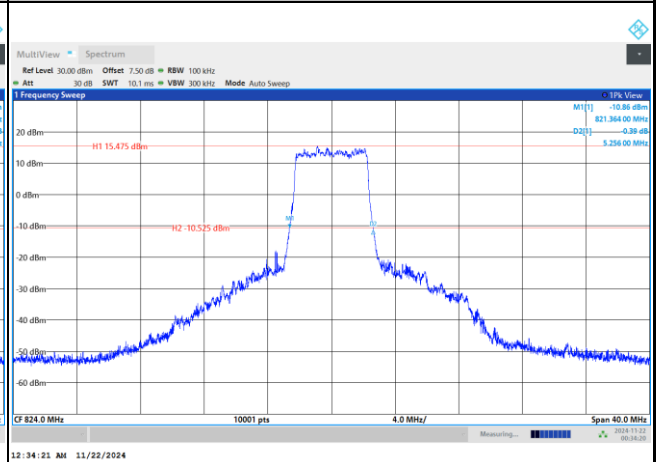


FR1 n26 / 5MHz / CP OFDM / 824MHz / Full RB

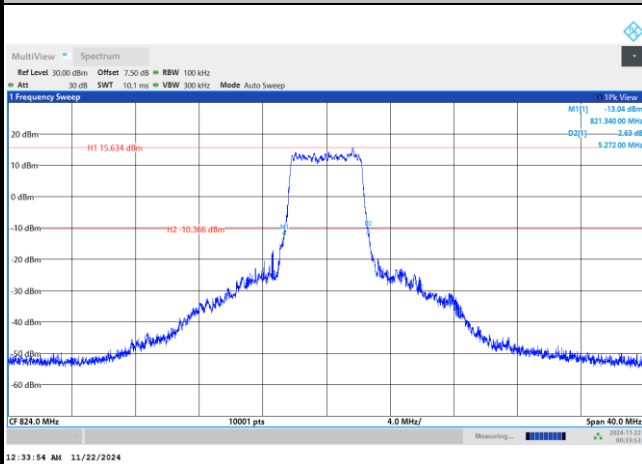
QPSK



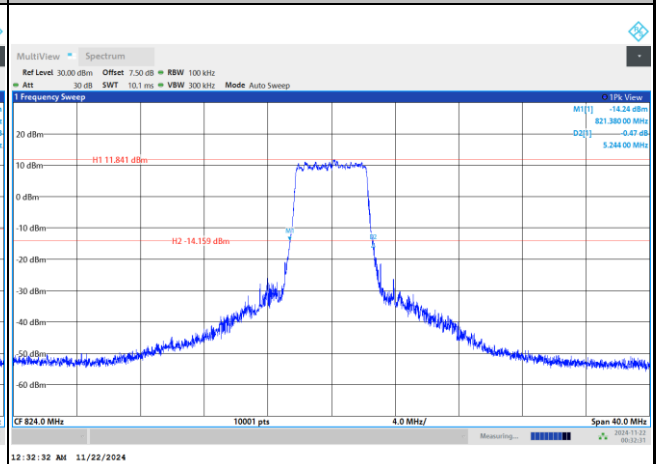
16QAM

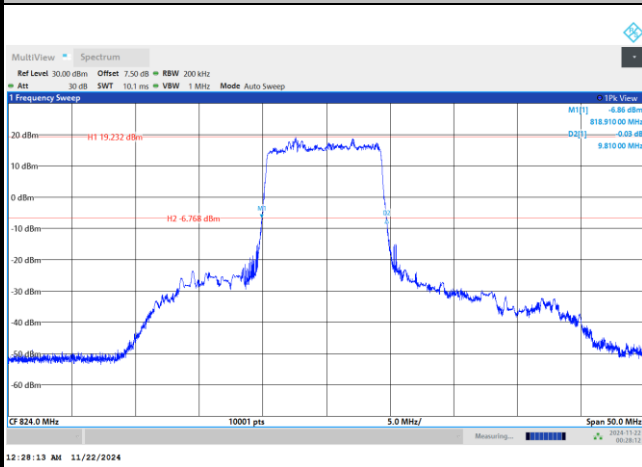
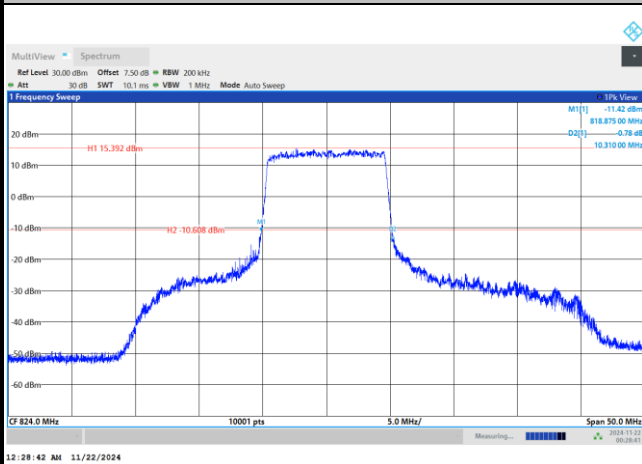
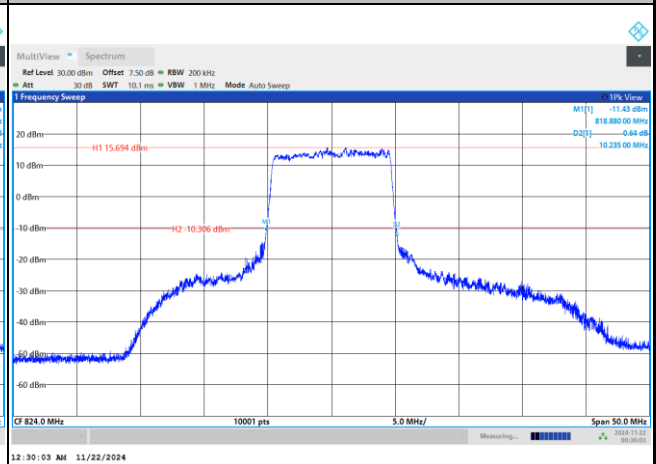
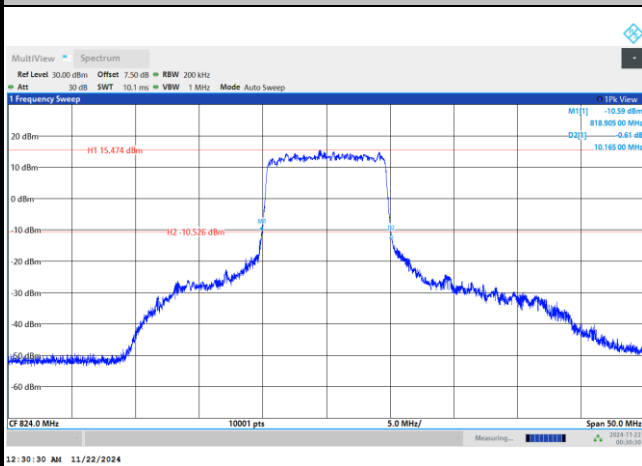
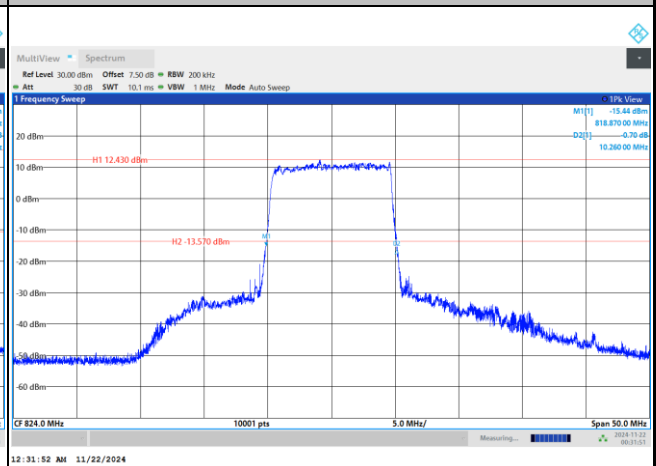


64QAM



256QAM



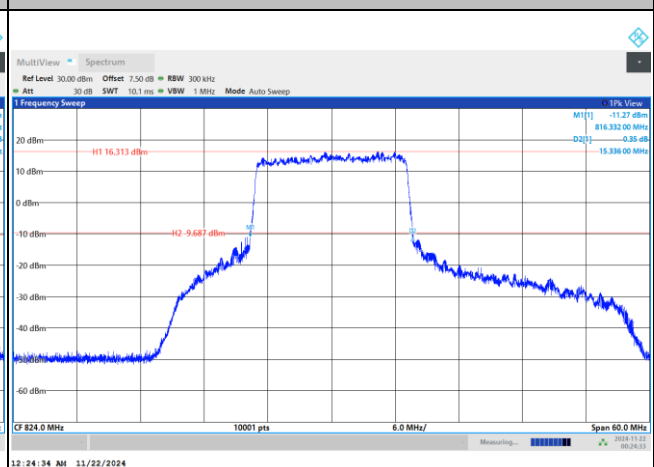
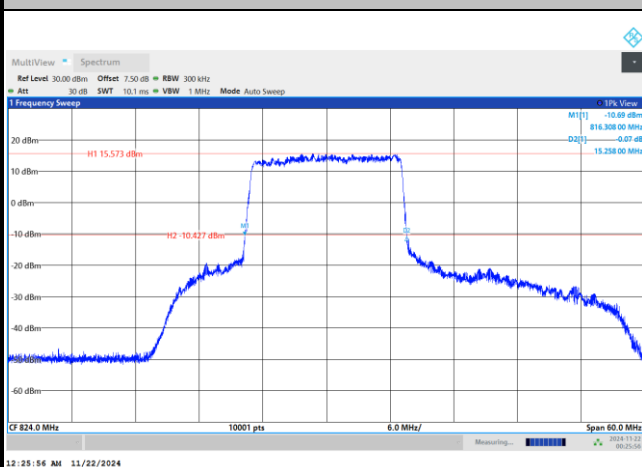
**FR1 n26 / 10MHz / DFT-S OFDM / 824MHz / Full RB****PI/2 BPSK****FR1 n26 / 10MHz / CP OFDM / 824MHz / Full RB****QPSK****16QAM****64QAM****256QAM**



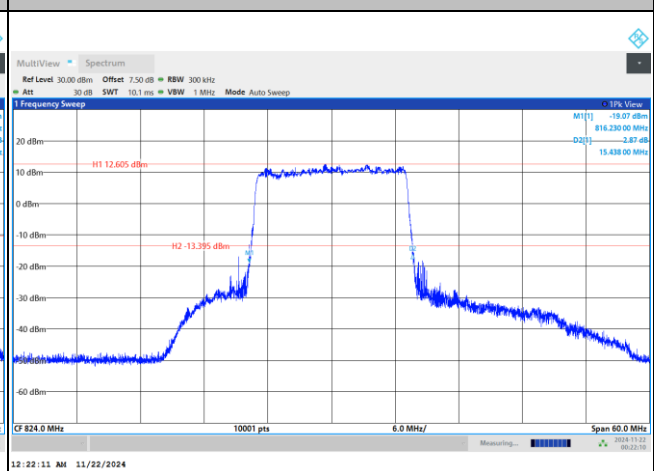
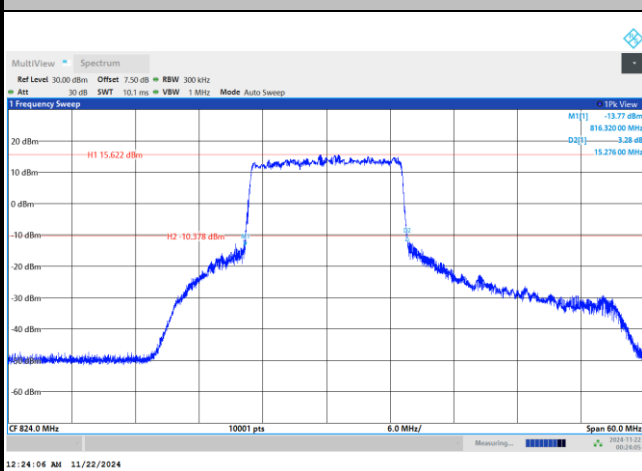
The screenshot shows a Spectrum Analyzer interface with the following details:

- Top Panel:** MultiView, Spectrum, Ref Level 30.00 dBm, Offset 7.50 dB, RBW 300 kHz, Att 30 dB, SWT 10.1 ms, VBW 1 MHz, Mode Auto Sweep.
- Plot Area:**
 - Y-axis: Power in dBm, ranging from -60 to 20.
 - X-axis: Frequency in MHz, ranging from 0 to 14.472.
 - Signal: A blue line representing the spectrum. It shows a flat noise floor at -60 dBm, a rising signal starting around 1000 Hz, a plateau at approximately 15 dBm between 10 kHz and 1 MHz, and a sharp drop-off after 1 MHz.
 - Grid: A white grid is overlaid on the plot.
- Right Panel:**
 - 10% View
 - M[1] 7.00 dBm
 - M[2] 0.00 dBm
 - M[3] 0.00 dBm
 - M[4] 14.472 MHz
- Bottom Panel:**
 - CF 824.0 MHz
 - 10001 pts
 - 6.0 MHz/
 - Span 60.0 MHz
 - Measuring...
 - 08/18 11:22
 - 00:26:49

16QAM



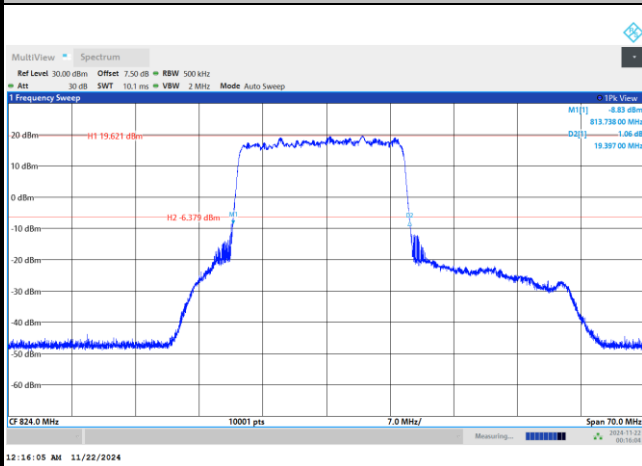
256QAM





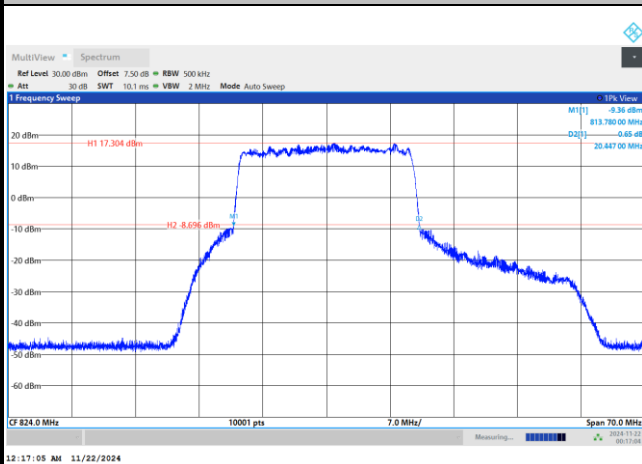
FR1 n26 / 20MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

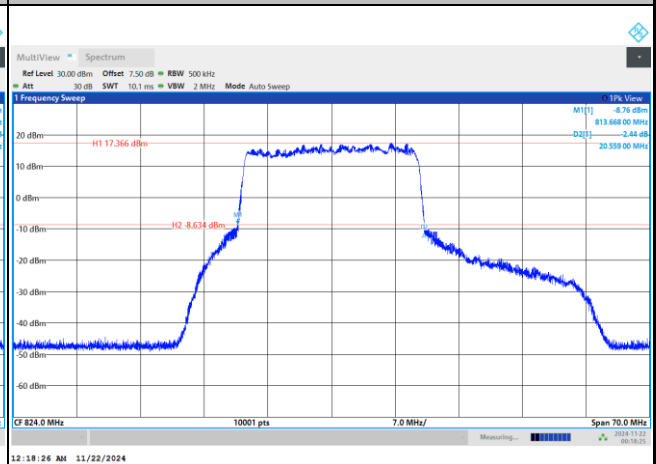


FR1 n26 / 20MHz / CP OFDM / 824MHz / Full RB

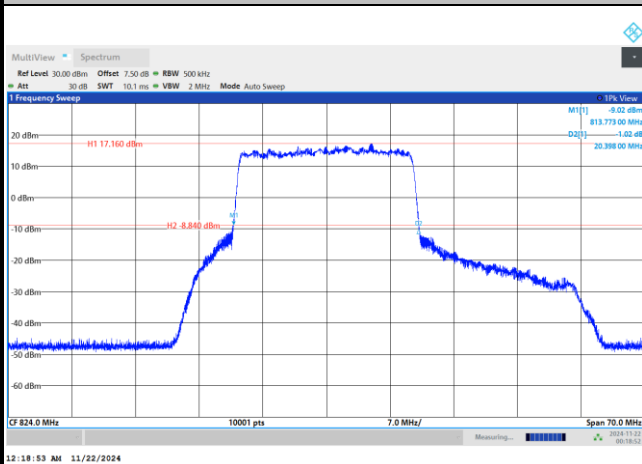
QPSK



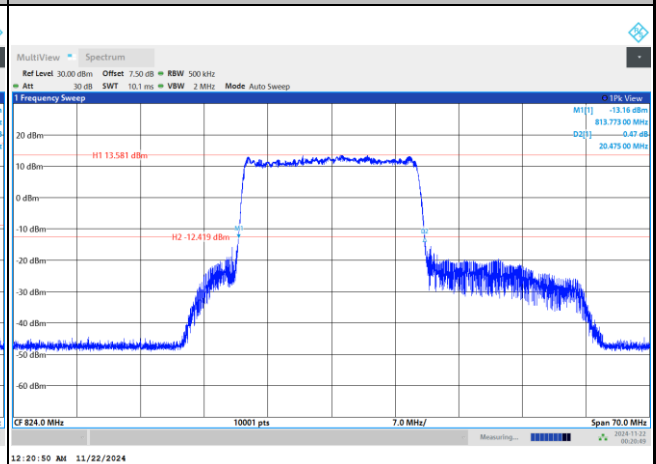
16QAM



64QAM



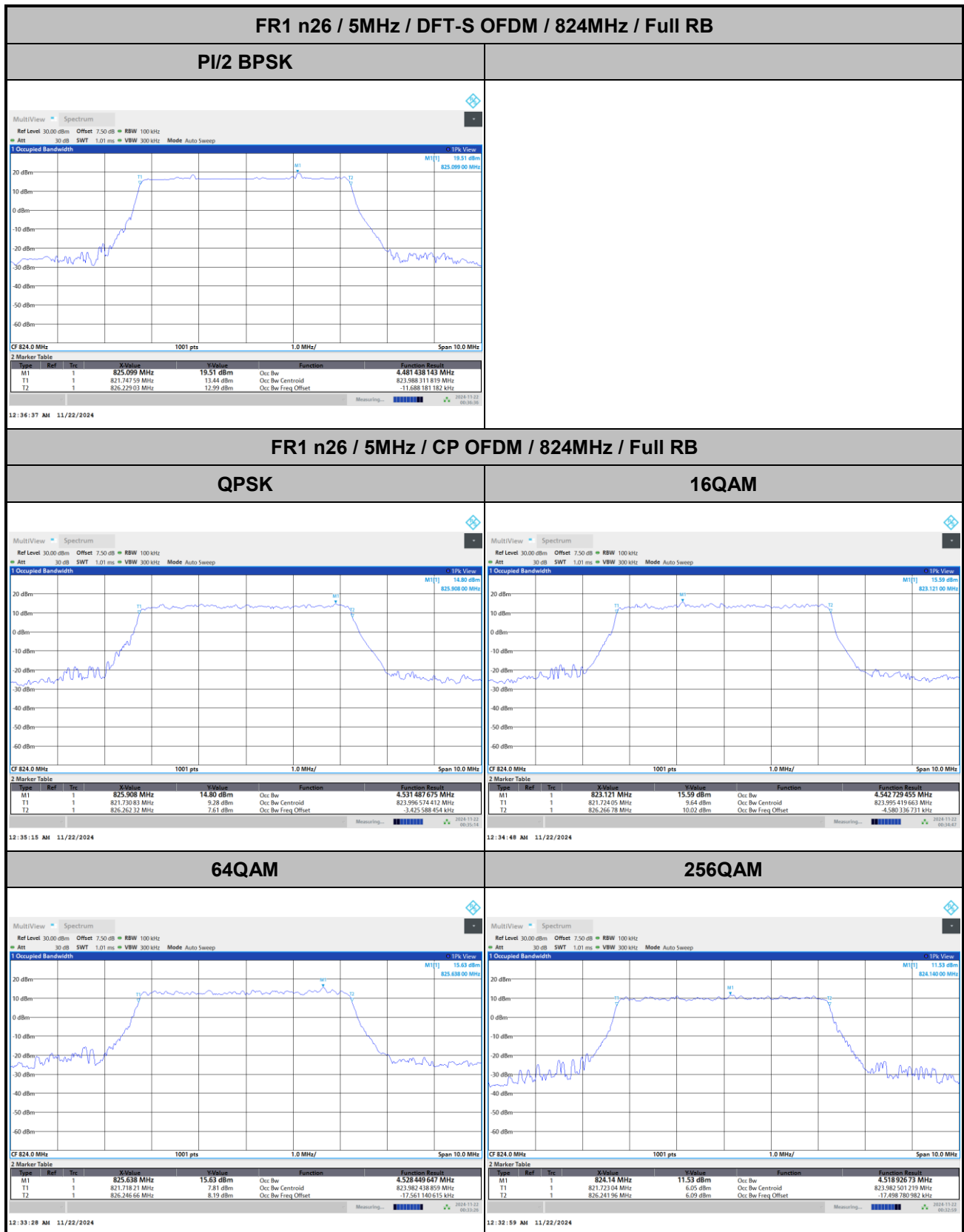
256QAM



**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	
824MHz	4.48		8.96		13.44		17.99	

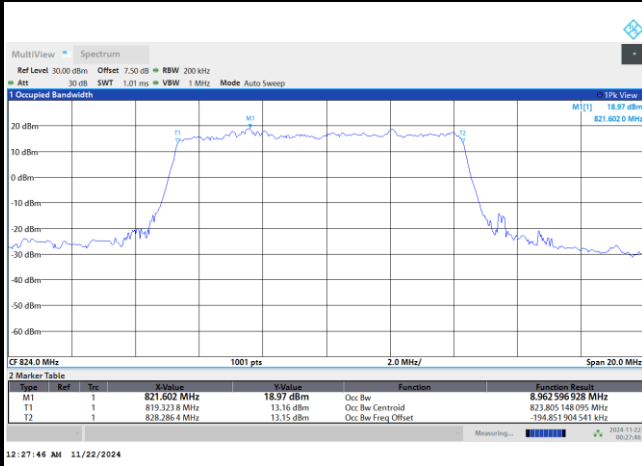
Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824MHz	4.53	4.54	9.30	9.31	14.11	14.14	19.00	19.05
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824MHz	4.52	4.51	9.28	9.33	14.18	14.09	19.02	19.11





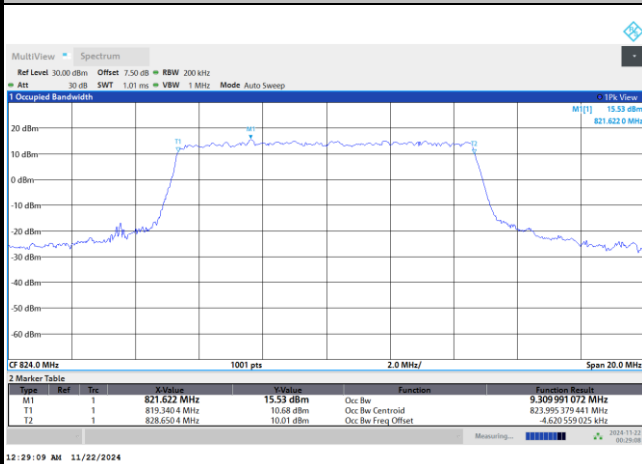
FR1 n26 / 10MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

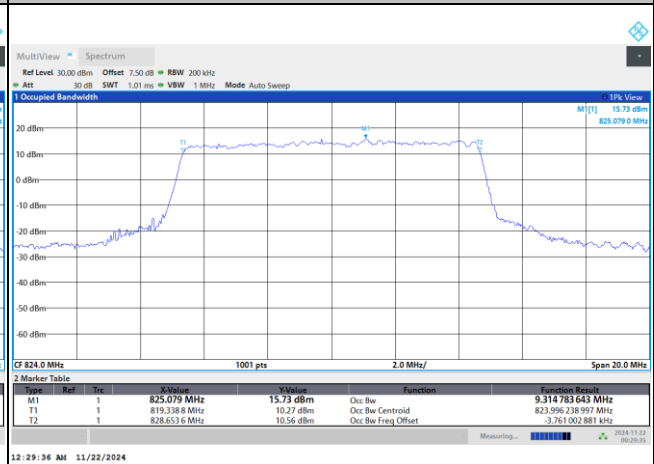


FR1 n26 / 10MHz / CP OFDM / 824MHz / Full RB

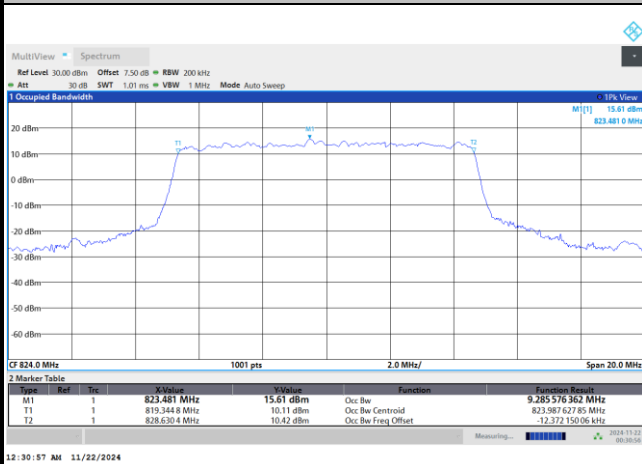
QPSK



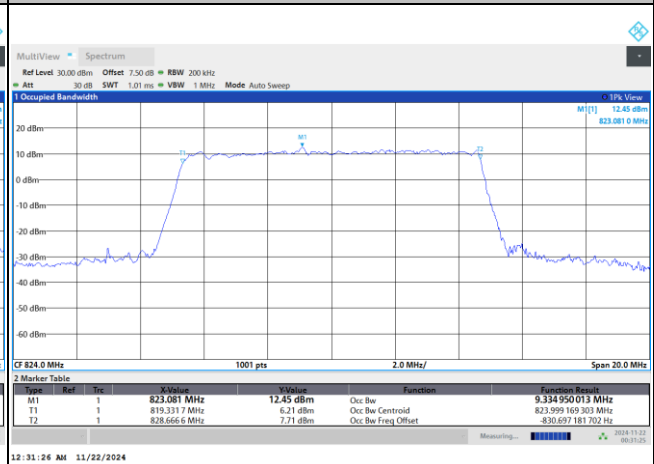
16QAM



64QAM

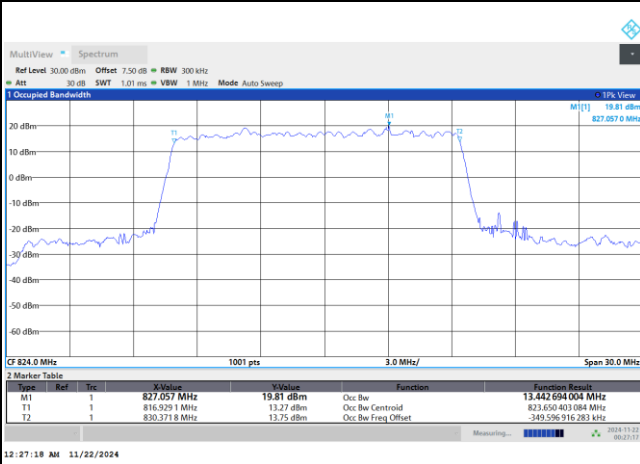


256QAM



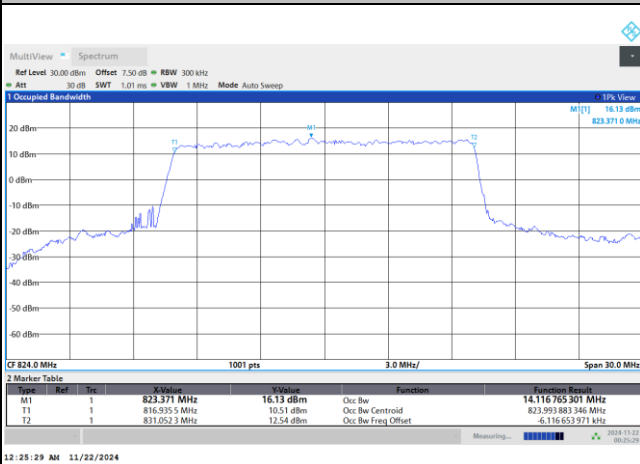
FR1 n26 / 15MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

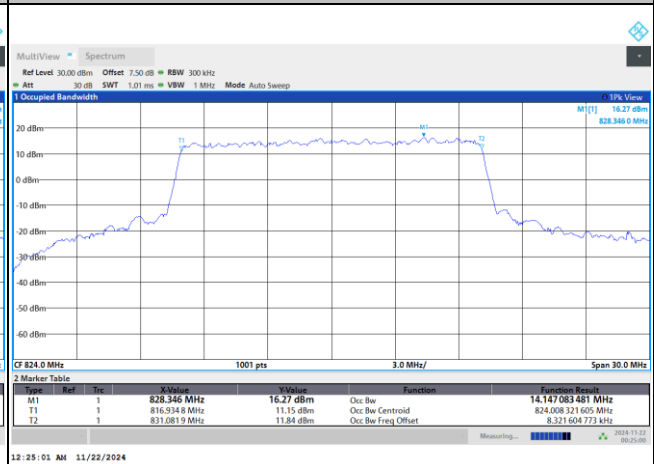


FR1 n26 / 15MHz / CP OFDM / 824MHz / Full RB

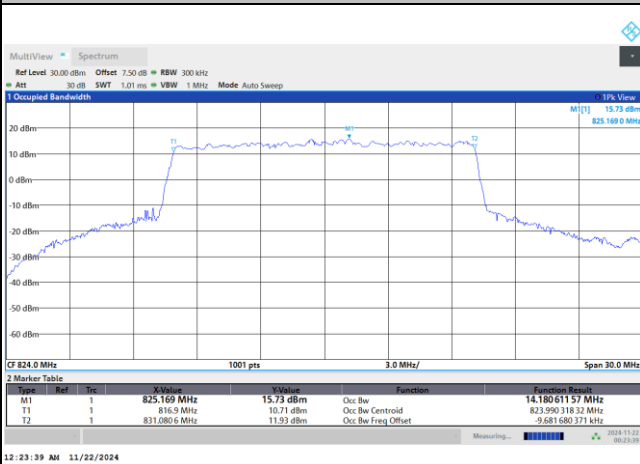
QPSK



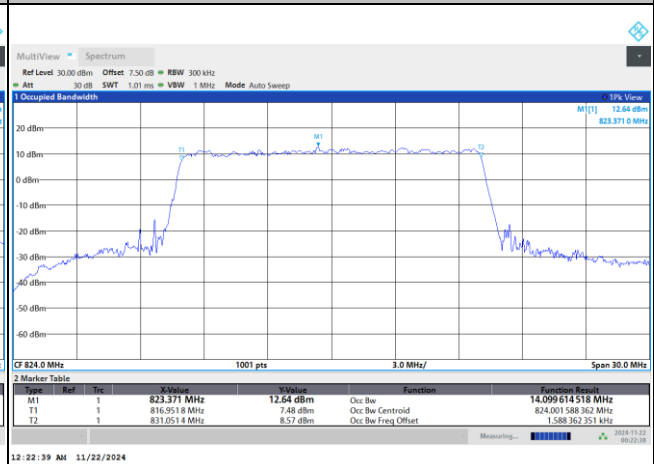
16QAM



64QAM

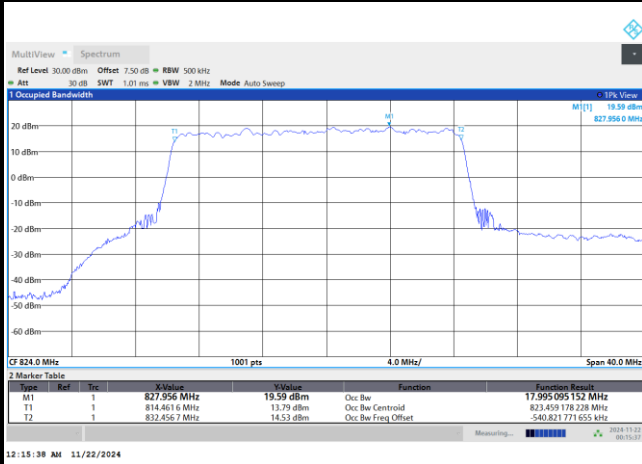


256QAM



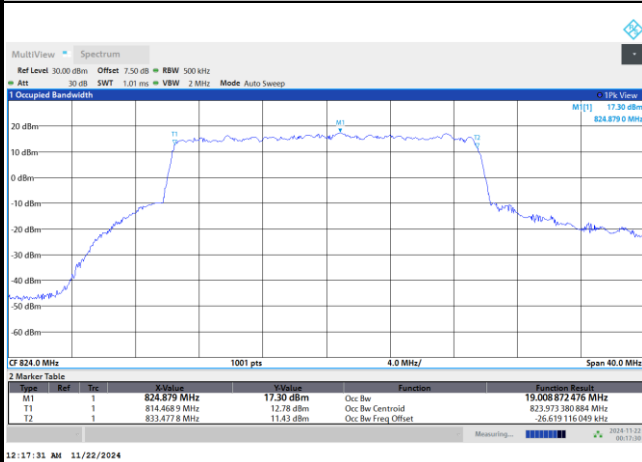
FR1 n26 / 20MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

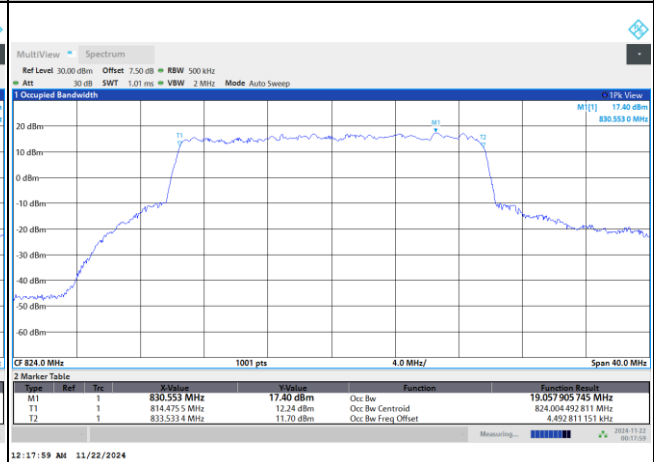


FR1 n26 / 20MHz / CP OFDM / 824MHz / Full RB

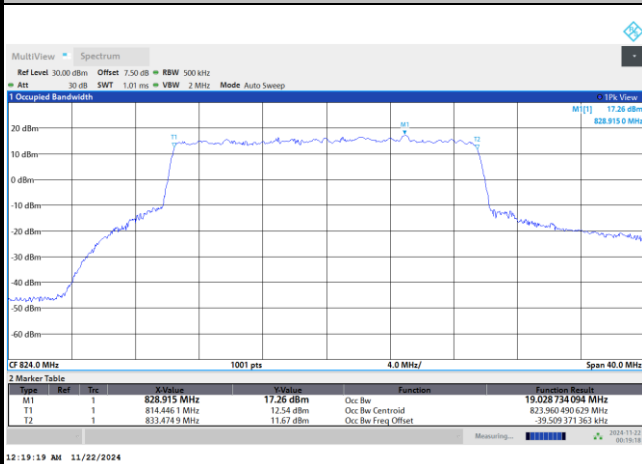
QPSK



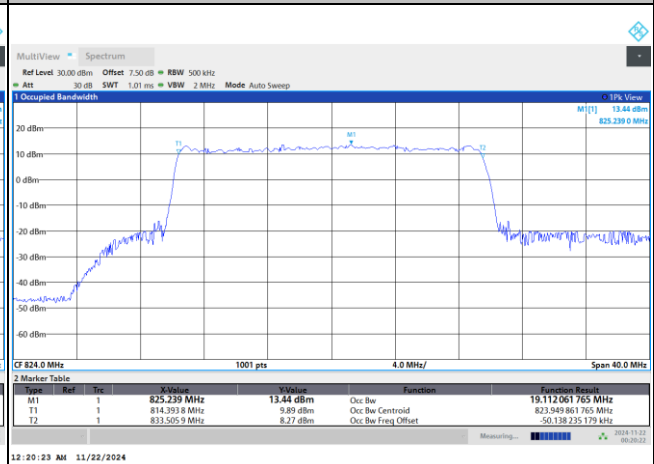
16QAM



64QAM



256QAM



**Frequency Stability**

Test Conditions		FR1 n26 (BPSK) / 824MHz	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0003	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0023	

Note: Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.

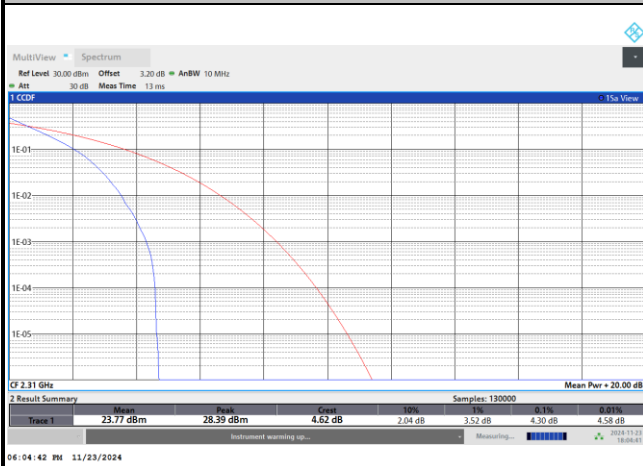
**FR1 n30****Peak-to-Average Ratio**

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	4.30	4.86	6.04	6.38	PASS
Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.74				PASS

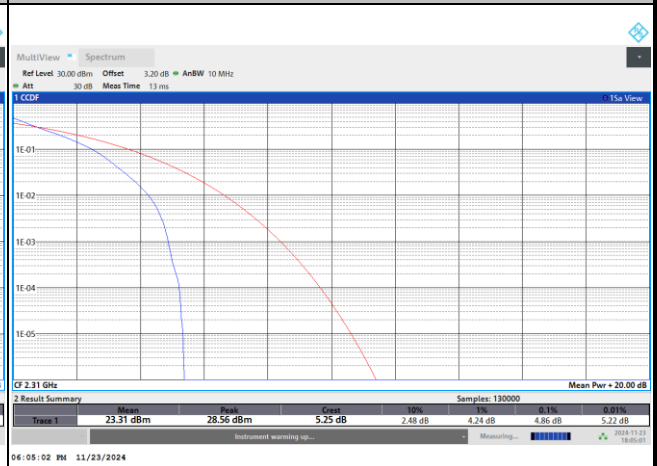


FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

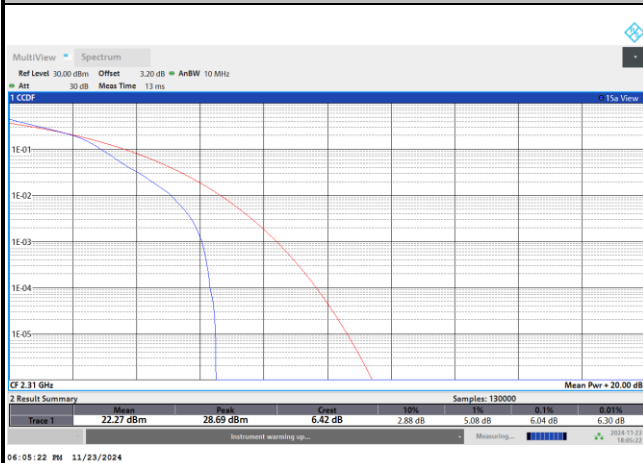
PI/2 BPSK



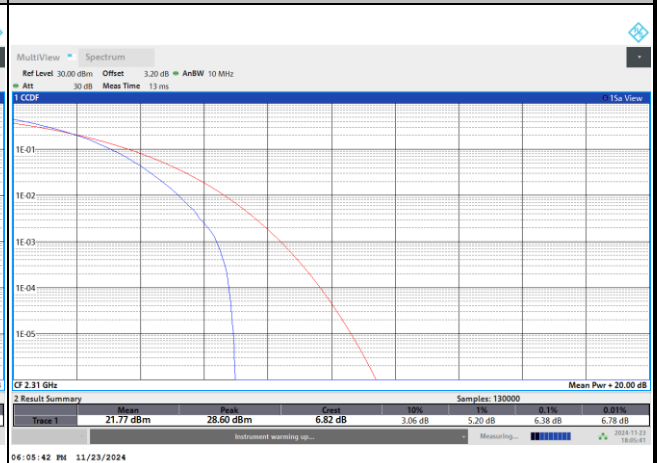
QPSK



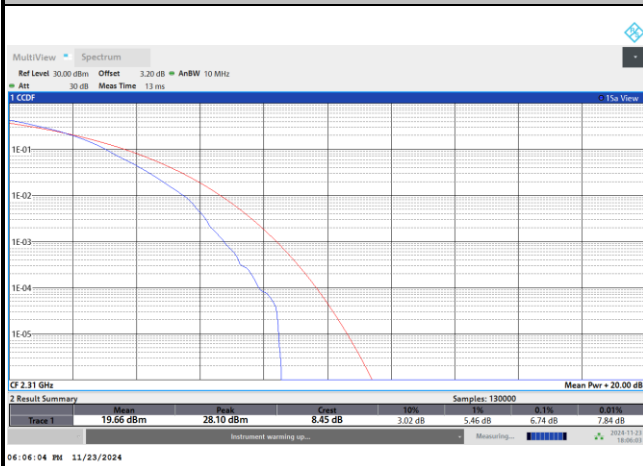
16QAM



64QAM



256QAM



**26dB Bandwidth**

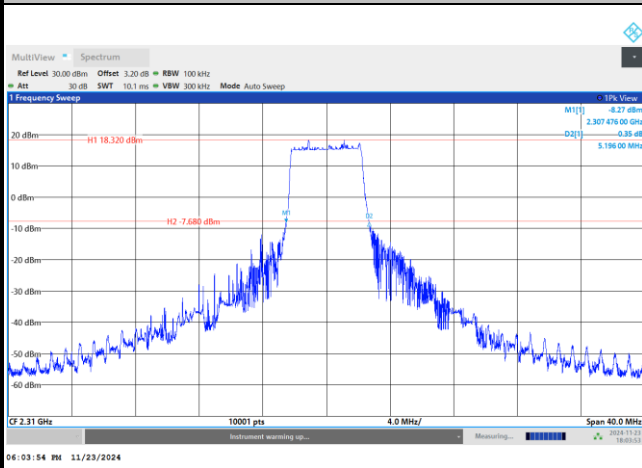
Mode	FR1 n30 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.19		11.07					

Mode	FR1 n30 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	6.08	6.29	11.81	11.00				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	7.52	5.66	11.68	10.53				



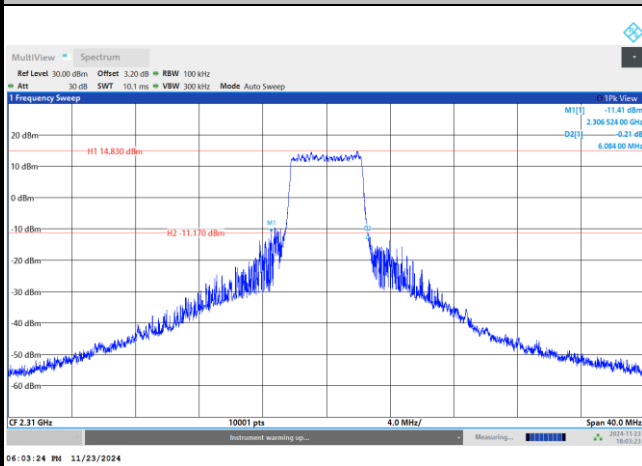
FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

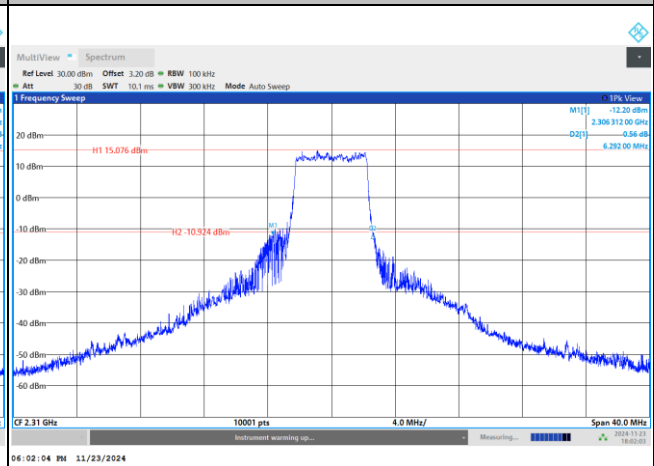


FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB

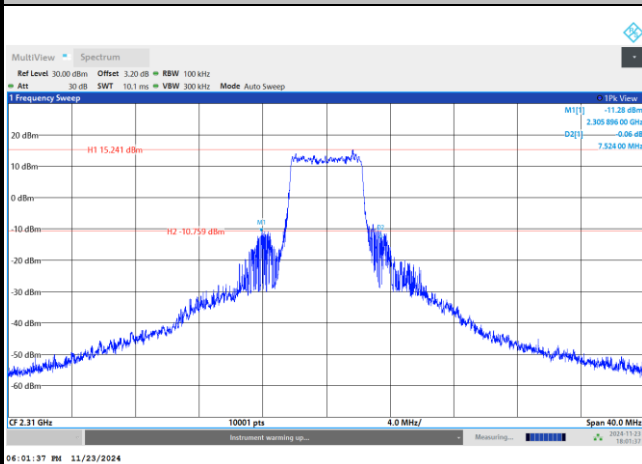
QPSK



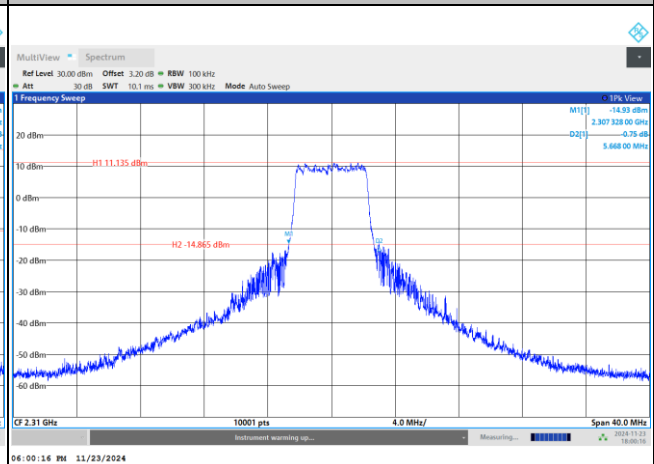
16QAM

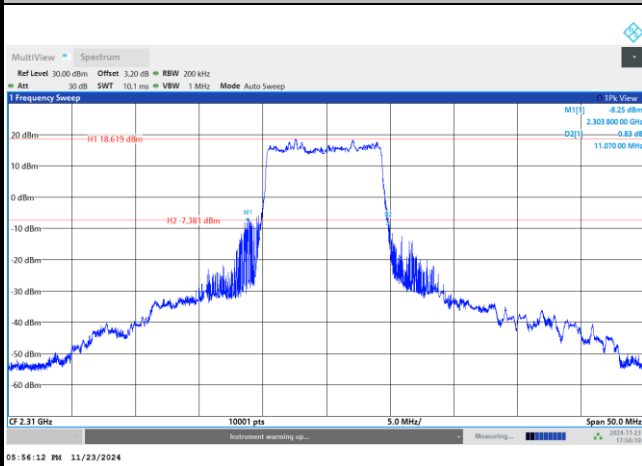
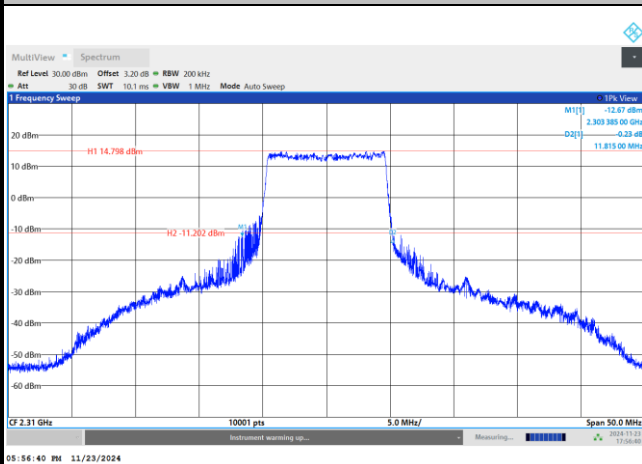
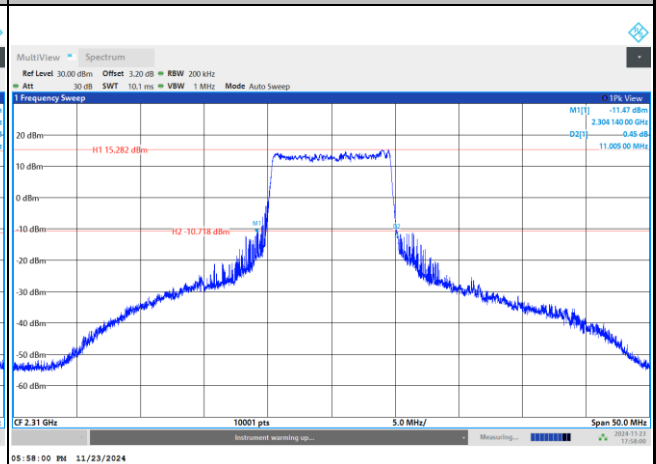
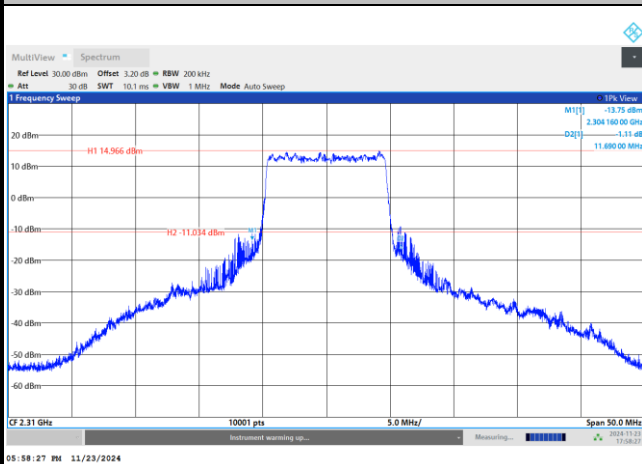
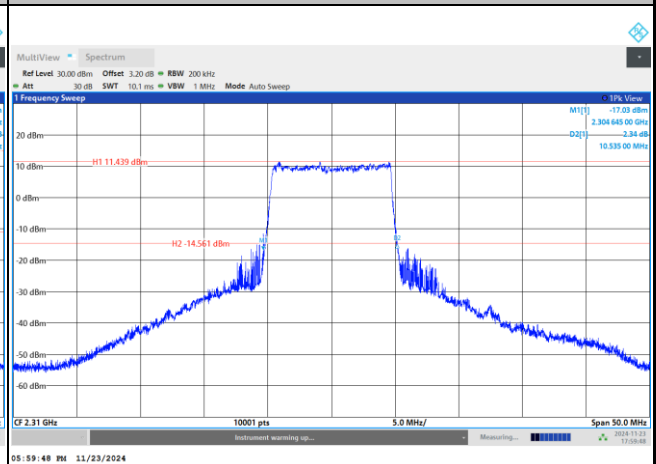


64QAM



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**

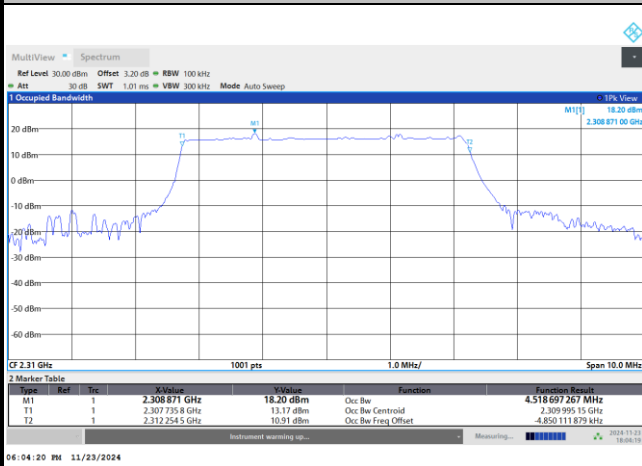
Mode	FR1 n30 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.51		9.02					

Mode	FR1 n30 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.54	4.55	9.37	9.38				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.55	4.53	9.36	9.39				



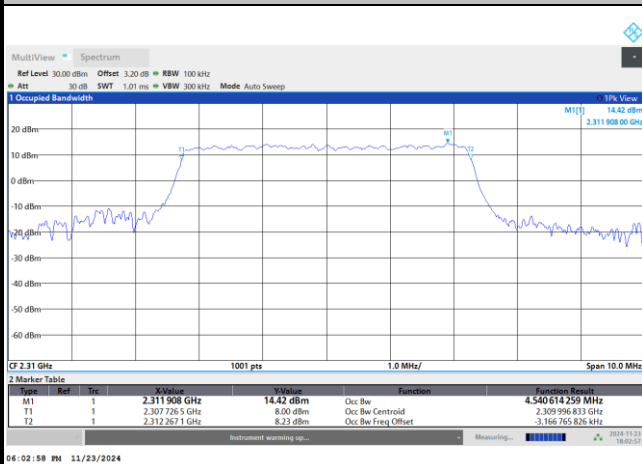
FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

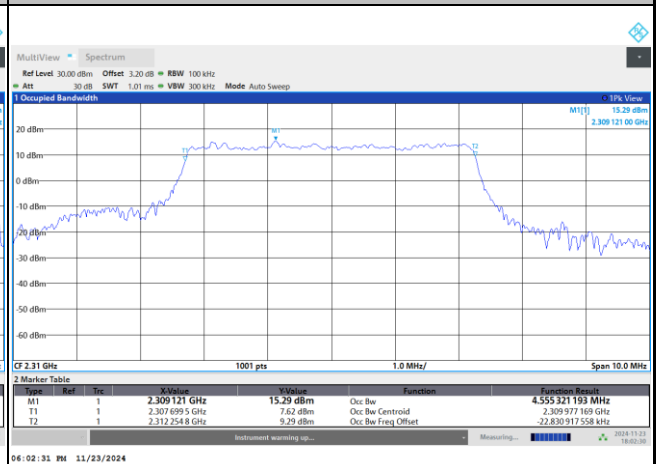


FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB

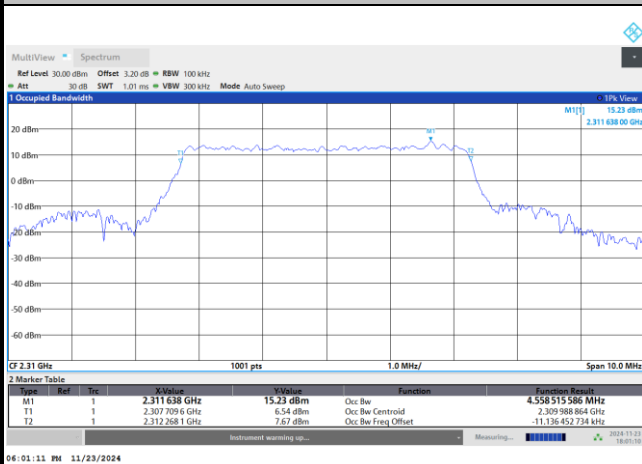
QPSK



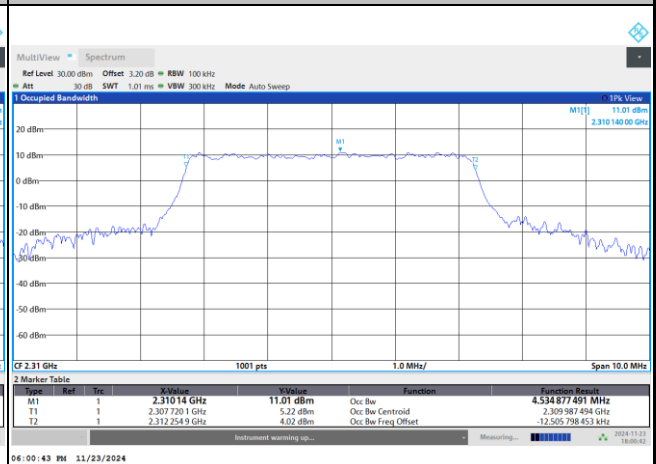
16QAM



64QAM



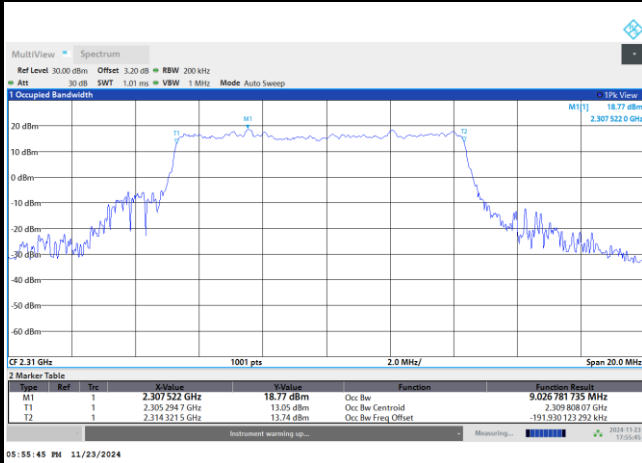
256QAM





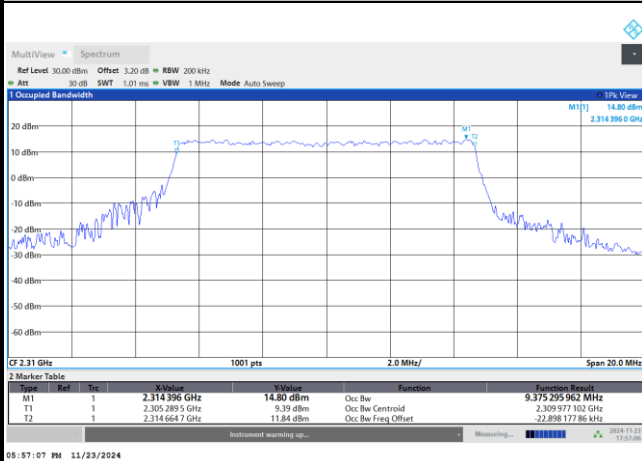
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

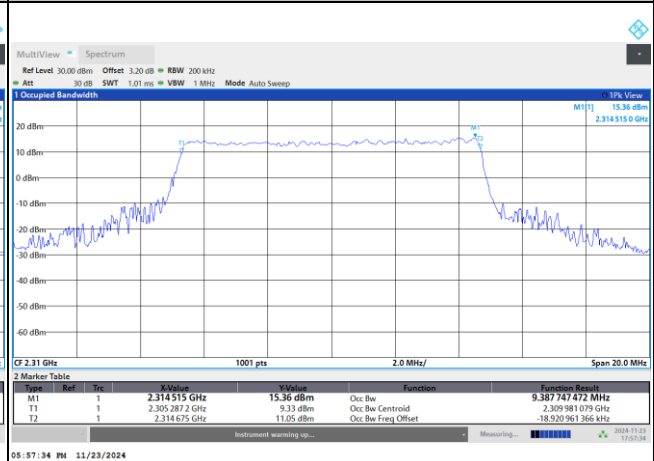


FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB

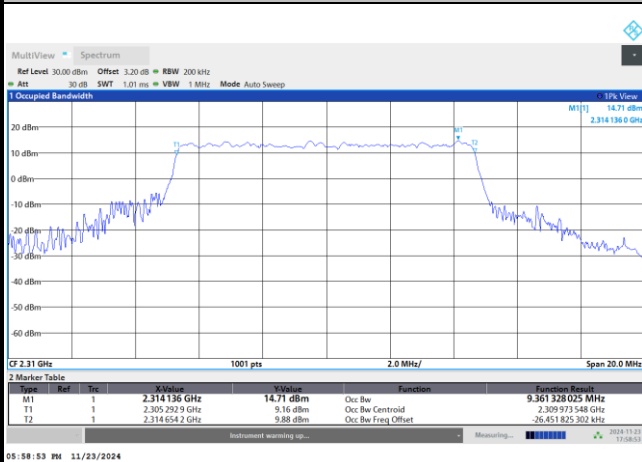
QPSK



16QAM



64QAM



256QAM

