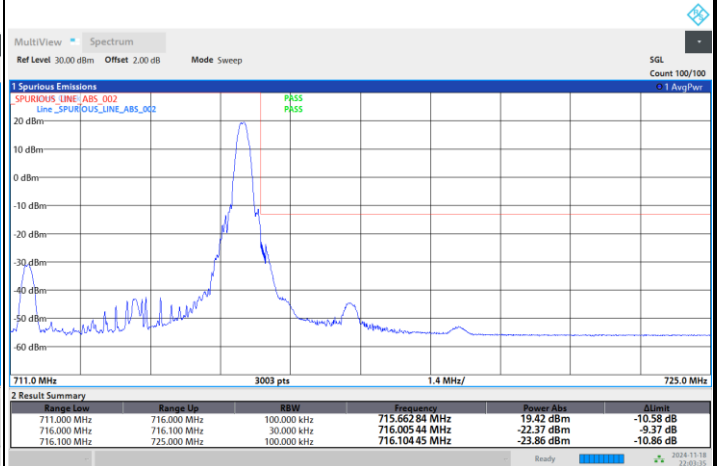
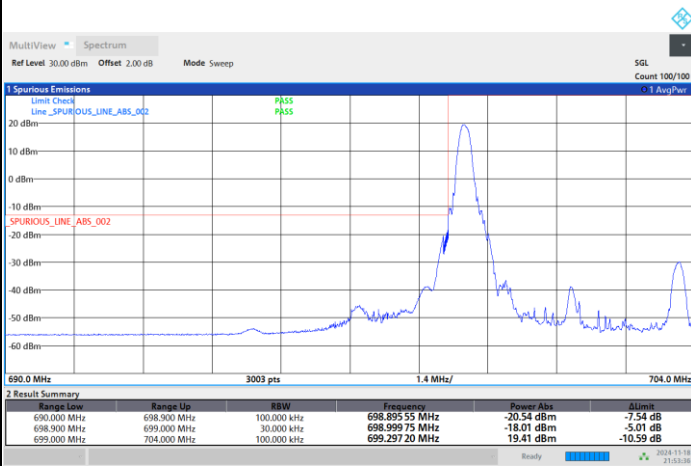




FR1 n12 / 5MHz / DFT-S OFDM / 64QAM

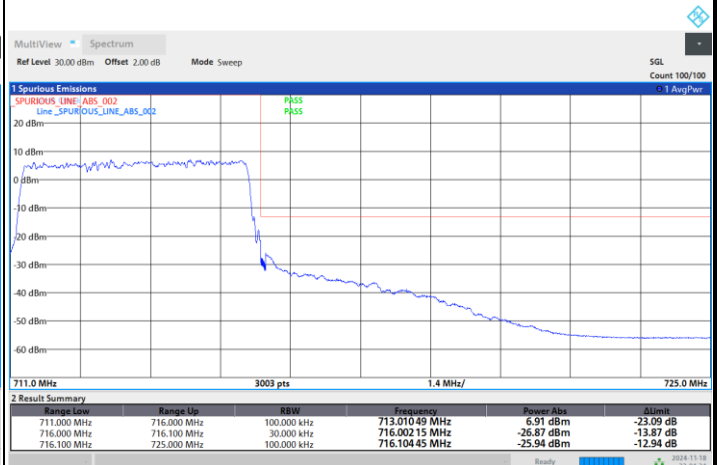
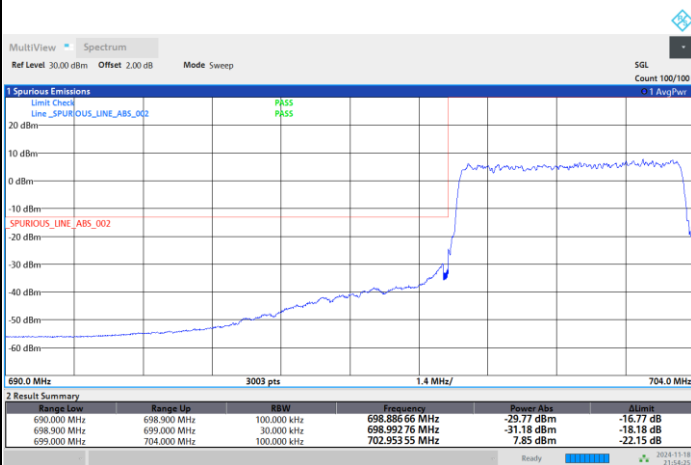
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

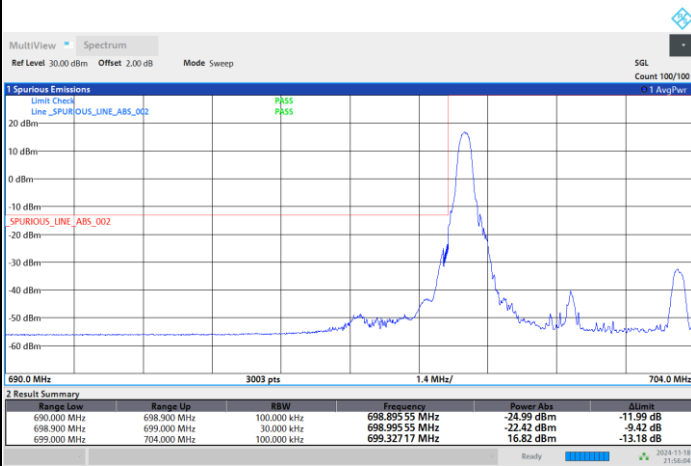




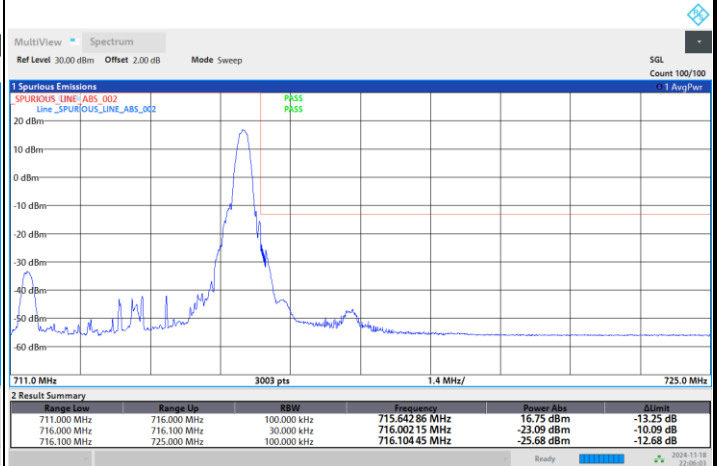
FR1 n12 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



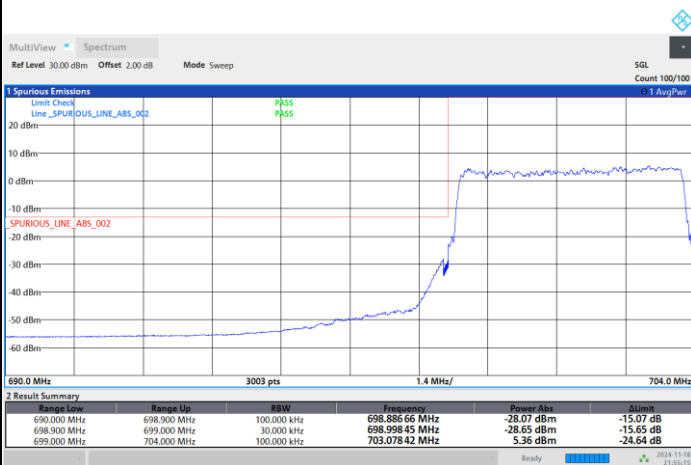
09:56:04 PM 11/18/2024



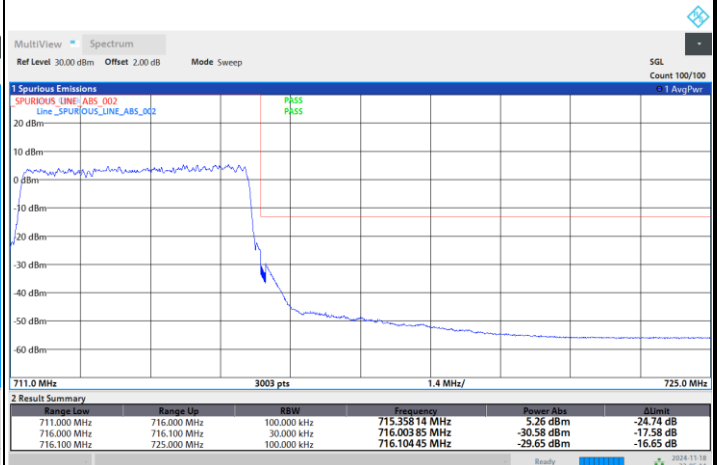
10:06:03 PM 11/18/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



09:55:16 PM 11/18/2024



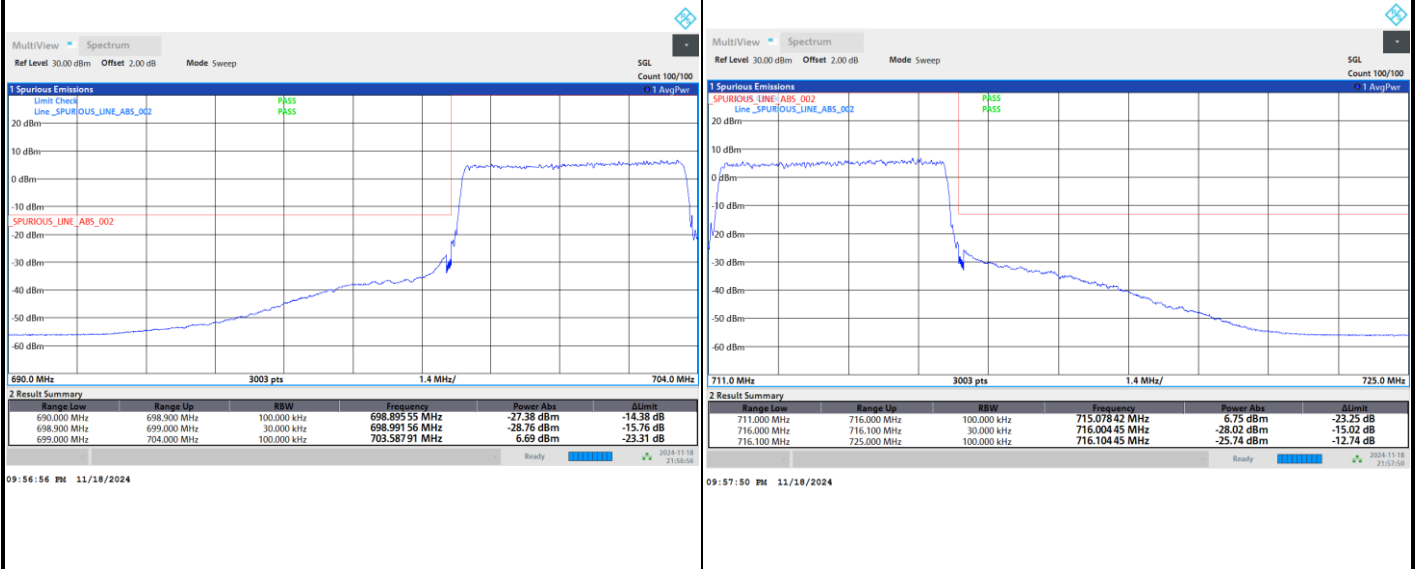
10:05:14 PM 11/18/2024



FR1 n12 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

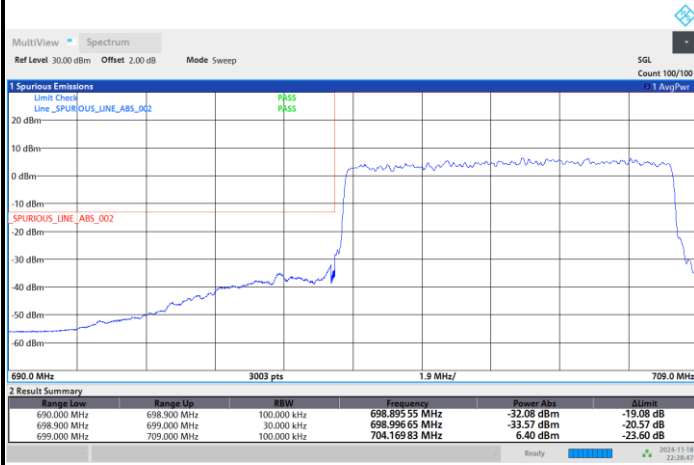
Highest Band Edge





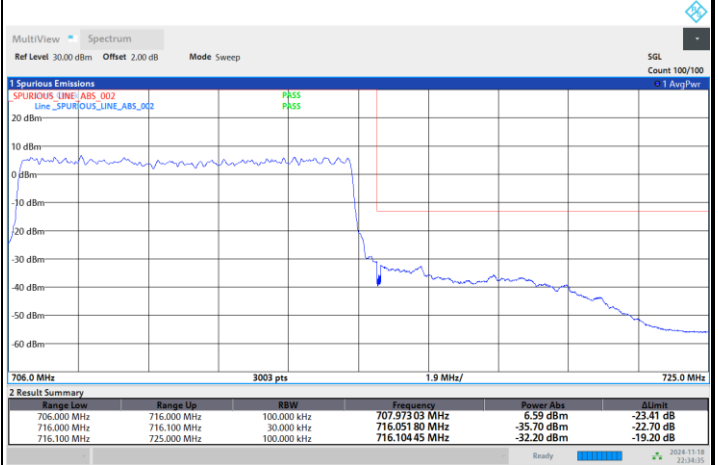
FR1 n12 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge



10:28:47 PM 11/18/2024

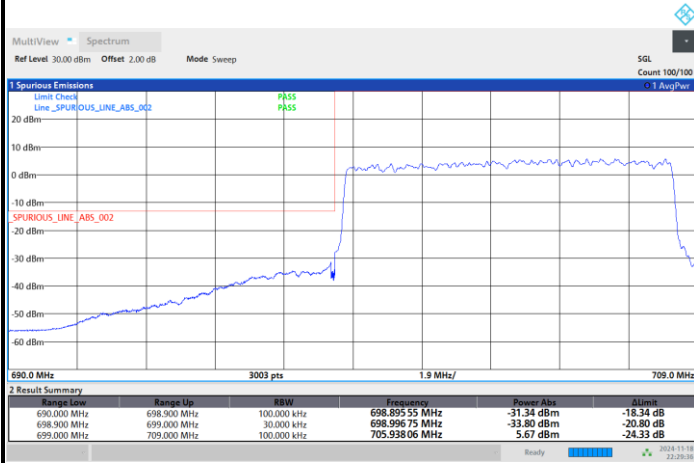
Highest Band Edge



10:34:35 PM 11/18/2024

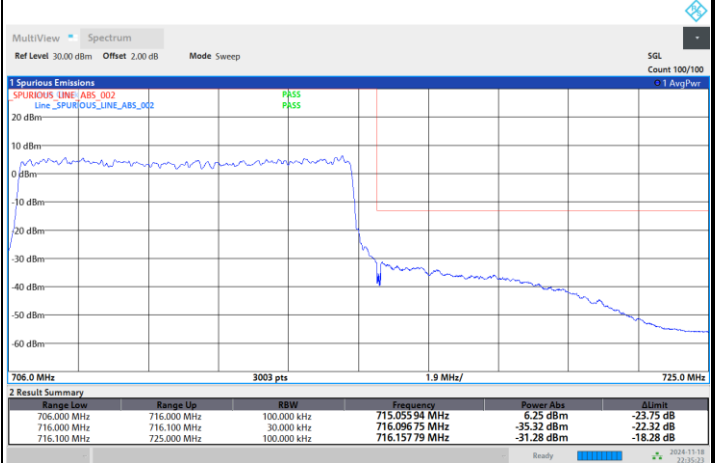
FR1 n12 / 10MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge



10:29:36 PM 11/18/2024

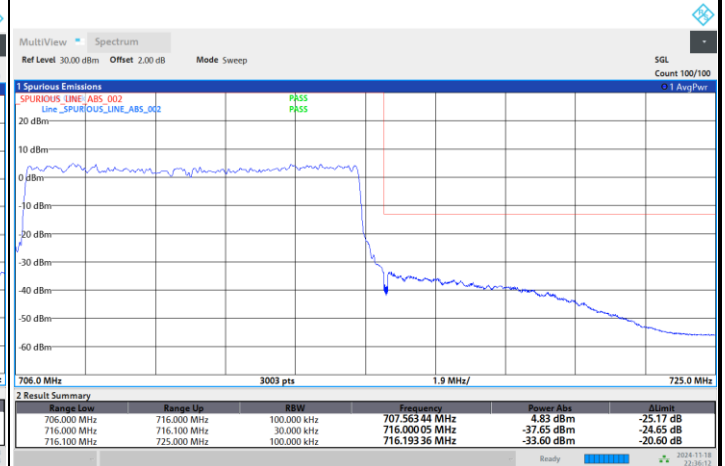
Highest Band Edge



10:35:24 PM 11/18/2024

**FR1 n12 / 10MHz / DFT-s-OFDM / 16QAM / Full RB**

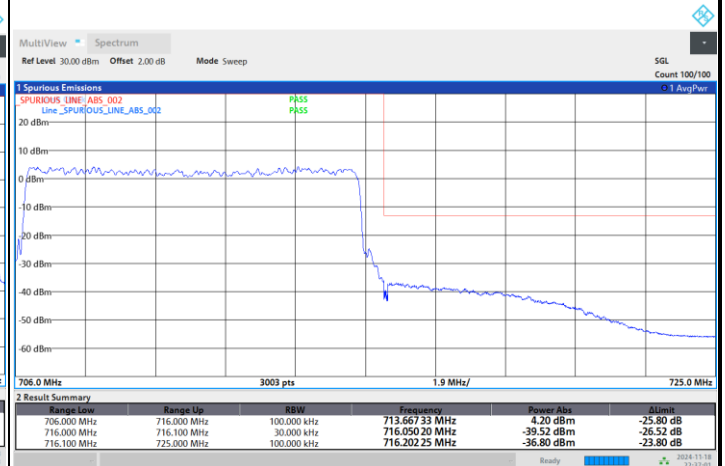
Highest Band Edge



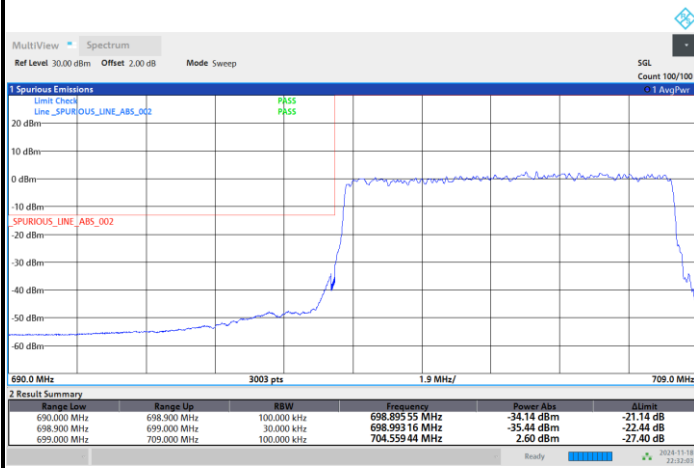
10:36:12 PM 11/18/2024

FR1 n12 / 10MHz / DFT-s-OFDM / 64QAM / Full RB

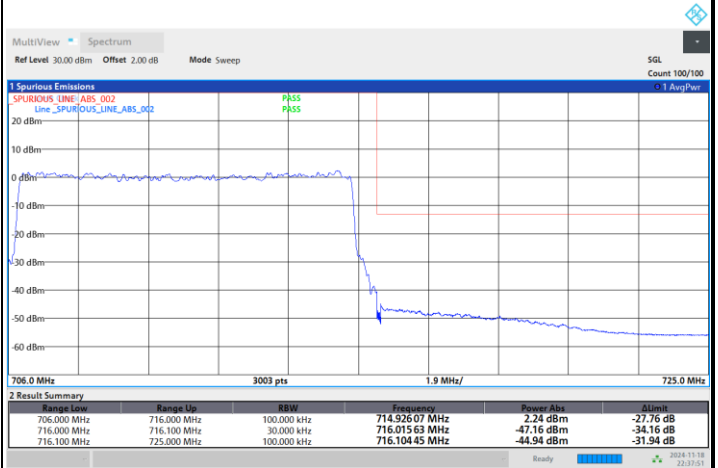
Highest Band Edge



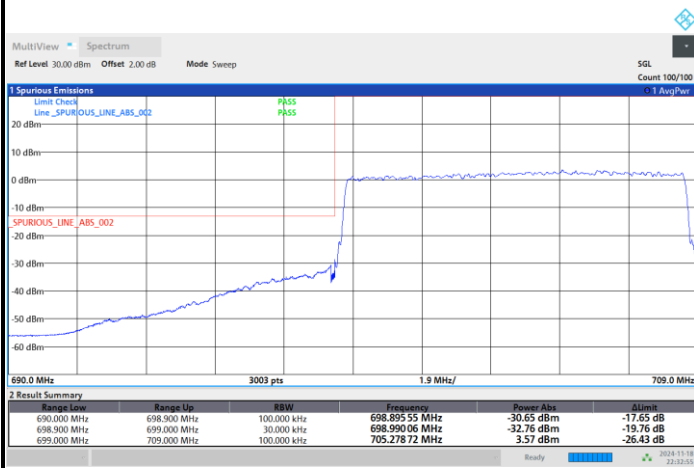
10:37:01 PM 11/18/2024

**FR1 n12 / 10MHz / DFT-s-OFDM / 256QAM / Full RB****Lowest Band Edge**

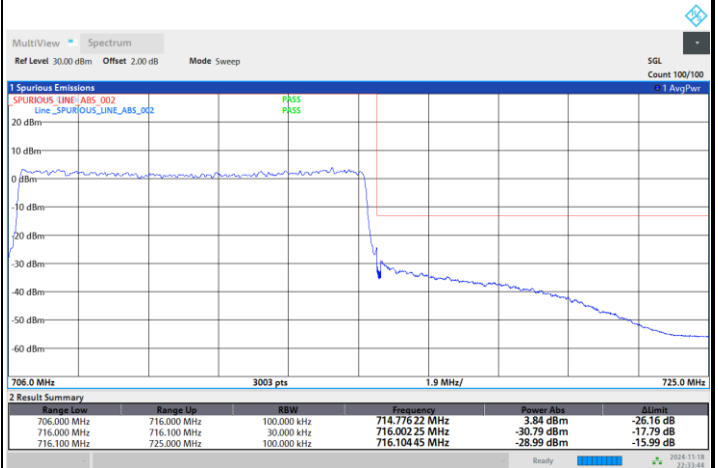
10:32:03 PM 11/18/2024

Highest Band Edge

10:37:51 PM 11/18/2024

FR1 n12 / 10MHz / CP OFDM / QPSK / Full RB**Lowest Band Edge**

10:32:55 PM 11/18/2024

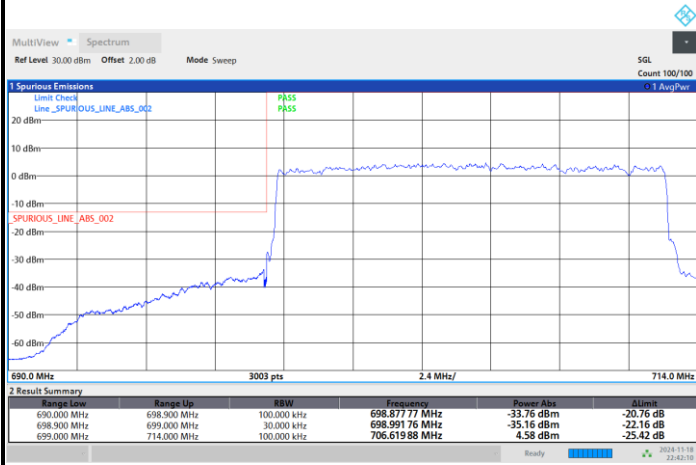
Highest Band Edge

10:33:45 PM 11/18/2024



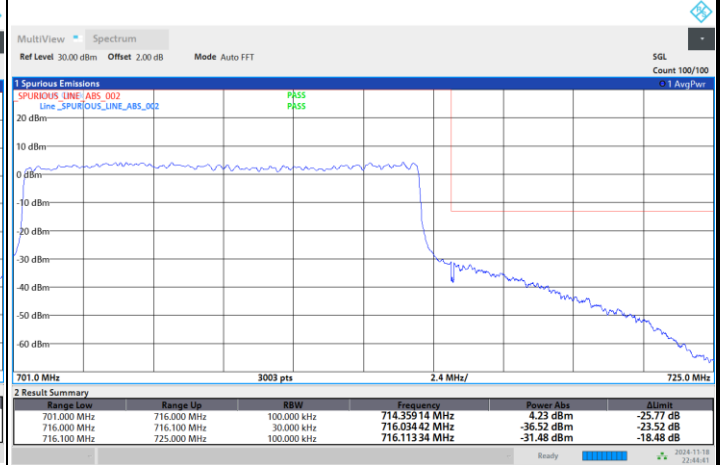
FR1 n12 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge



10:42:11 PM 11/18/2024

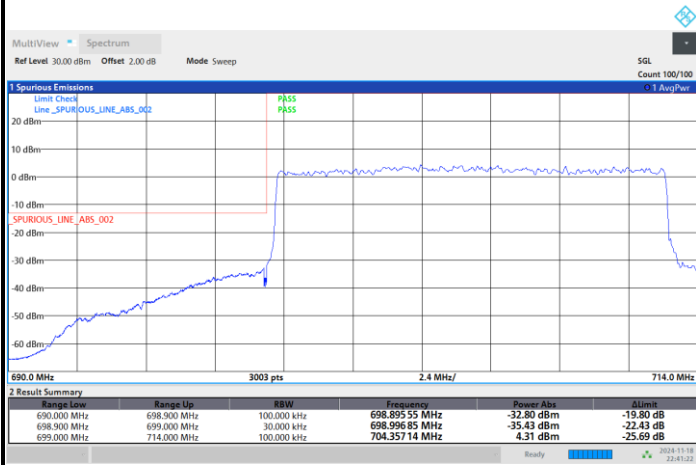
Highest Band Edge



10:44:41 PM 11/18/2024

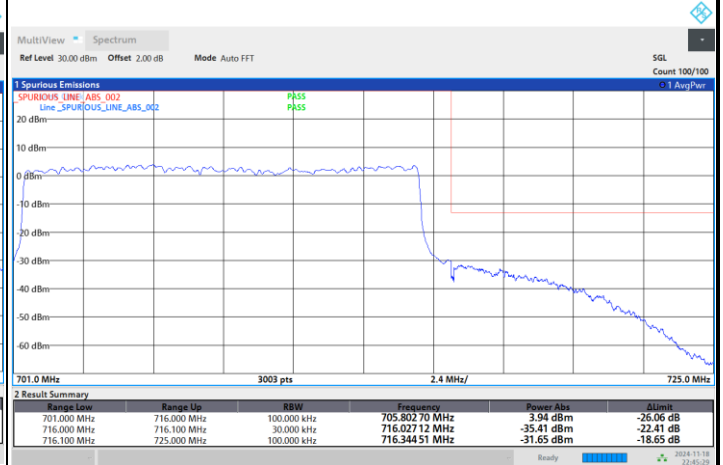
FR1 n12 / 15MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge



10:41:22 PM 11/18/2024

Highest Band Edge

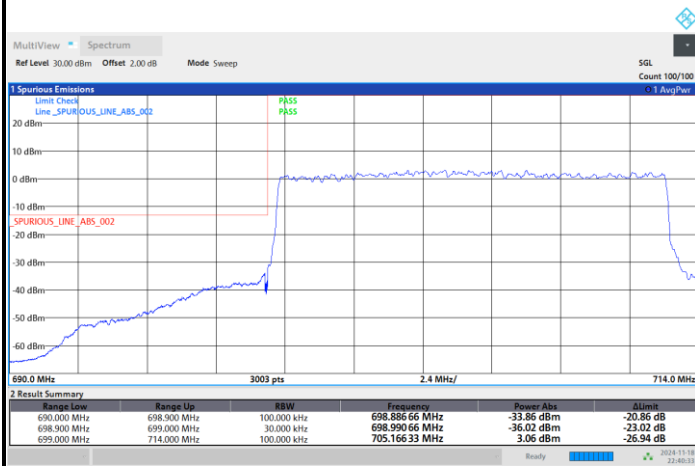


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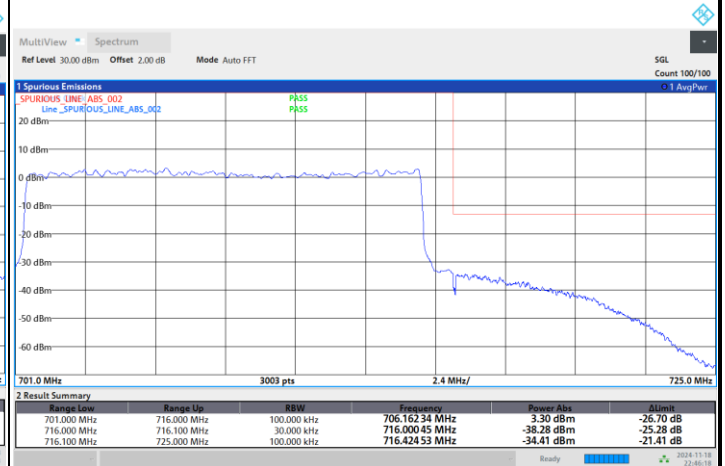
FR1 n12 / 15MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge



10:40:33 PM 11/18/2024

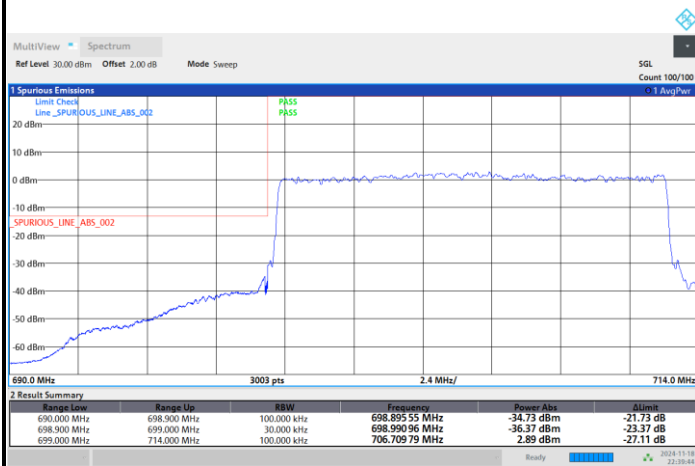
Highest Band Edge



10:46:18 PM 11/18/2024

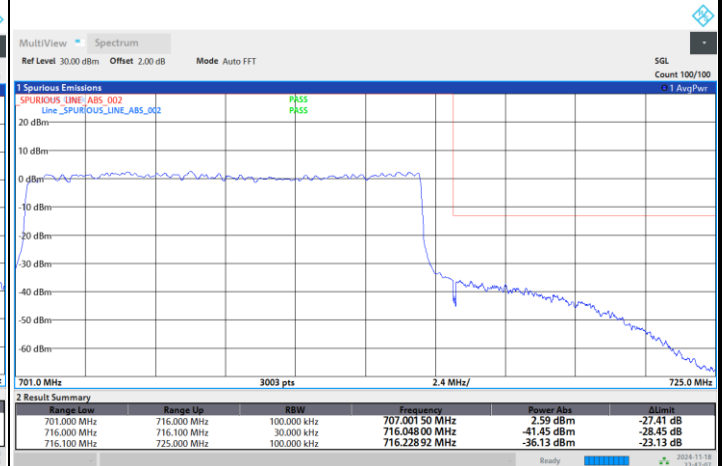
FR1 n12 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge



10:39:44 PM 11/18/2024

Highest Band Edge

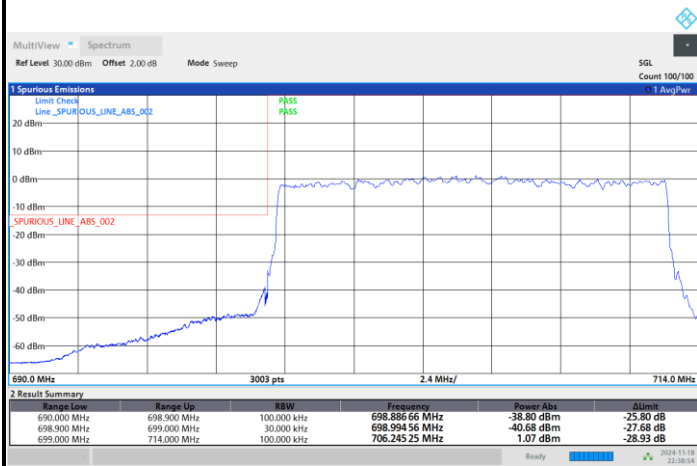


10:47:07 PM 11/18/2024



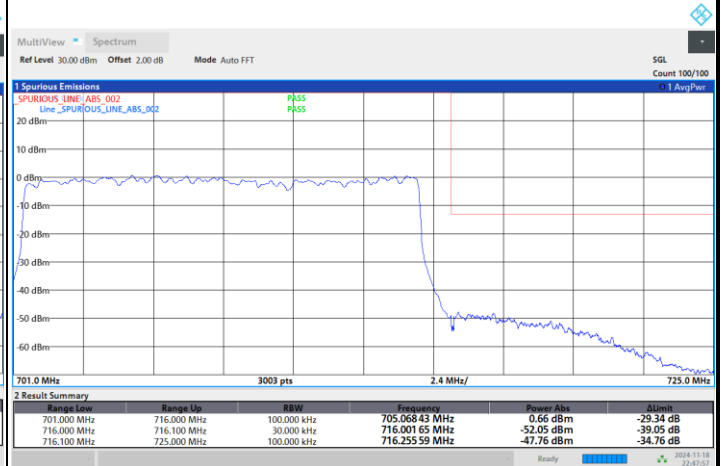
FR1 n12 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge



10:38:55 PM 11/18/2024

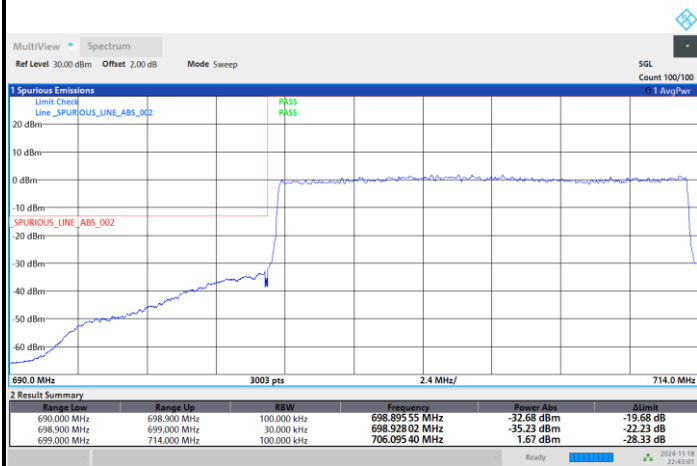
Highest Band Edge



10:47:57 PM 11/18/2024

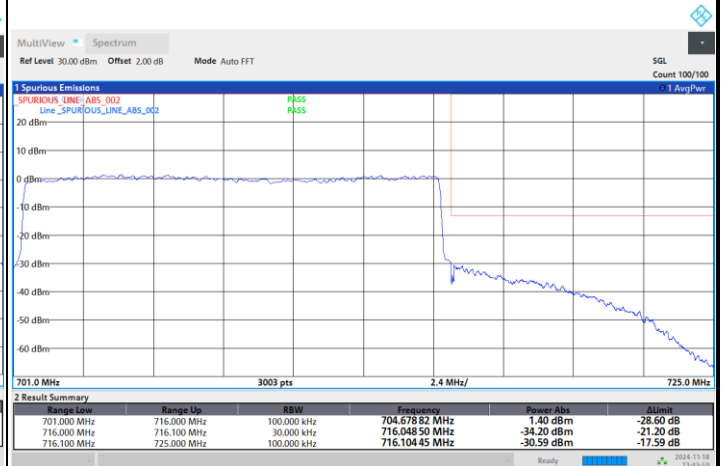
FR1 n12 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



10:43:01 PM 11/18/2024

Highest Band Edge



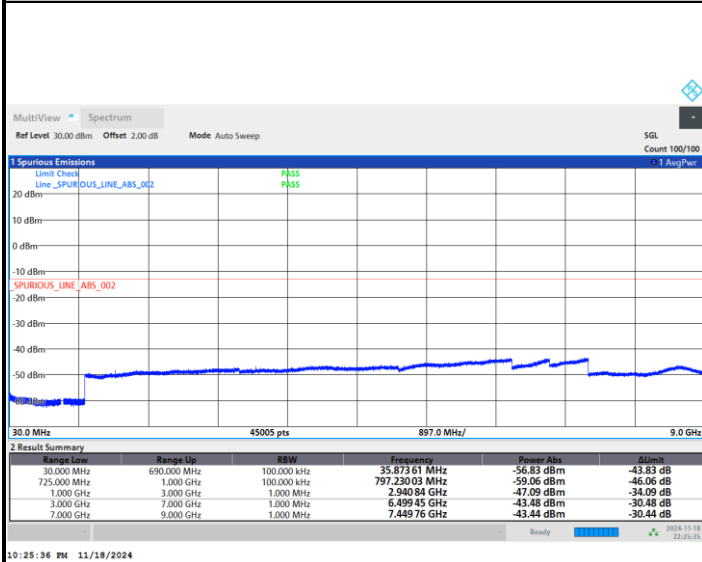
10:43:51 PM 11/18/2024



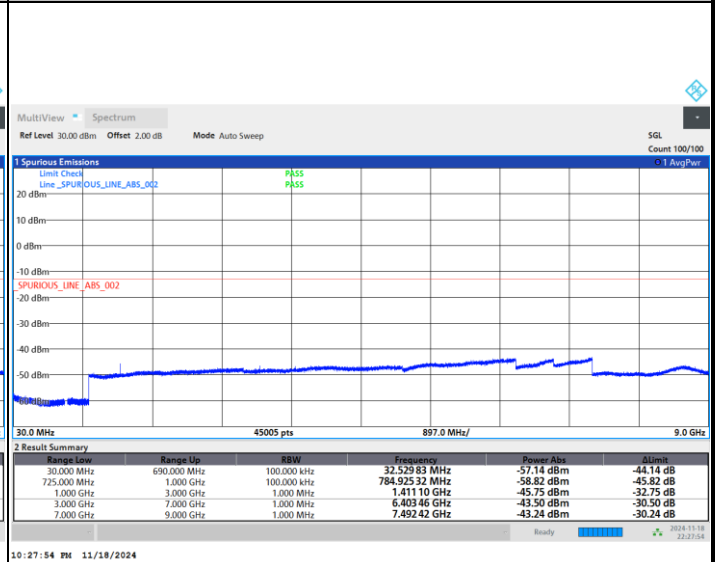
Conducted Spurious Emission

FR1 n12 / 5MHz / DFT-S OFDM / QPSK / 1RB1

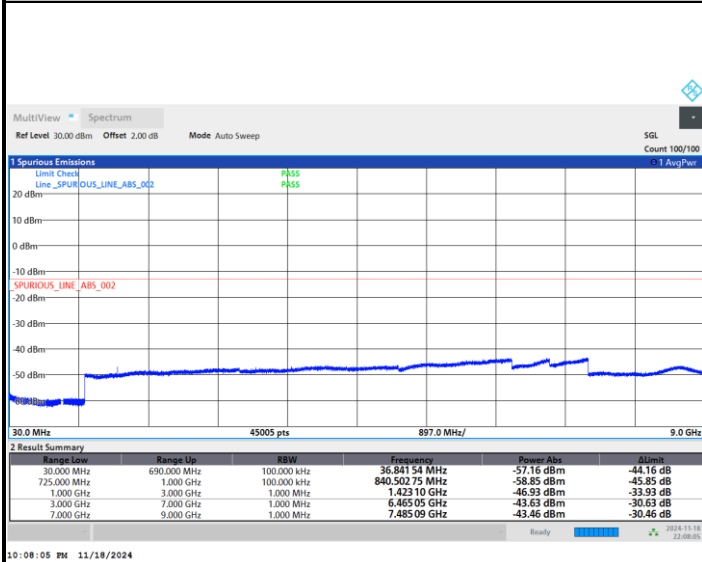
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n12 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0260	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0174	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0222	
-20	Normal Voltage	0.0249	
-30	Normal Voltage	0.0247	
20	Maximum Voltage	0.0172	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0006	

Note:

1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

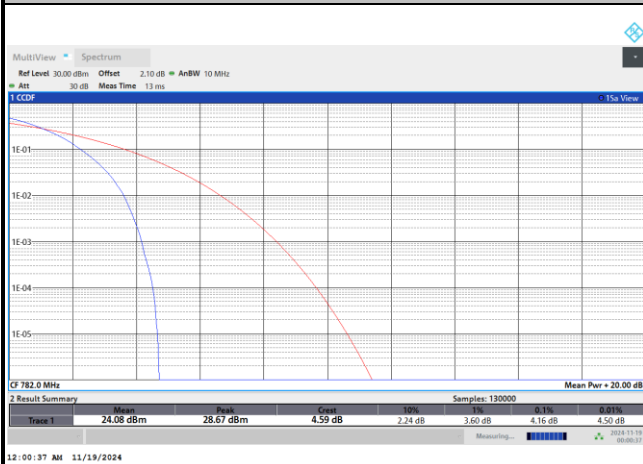
**FR1 n13****Peak-to-Average Ratio**

Mode	FR1 n13 / 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	4.16	5.08	5.98	6.28	PASS
Mode	FR1 n13 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.70				PASS

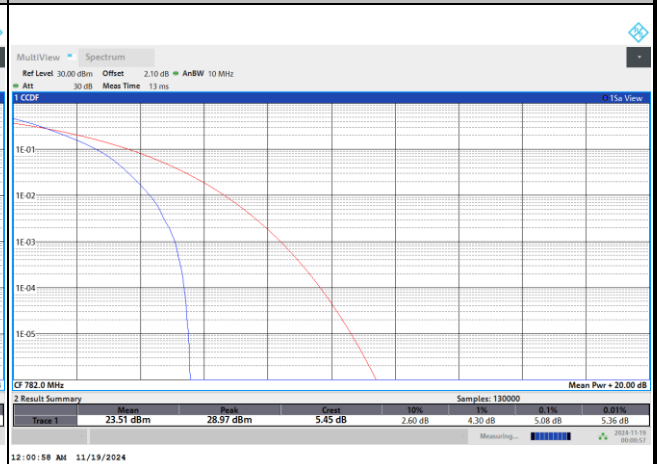


FR1 n13 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

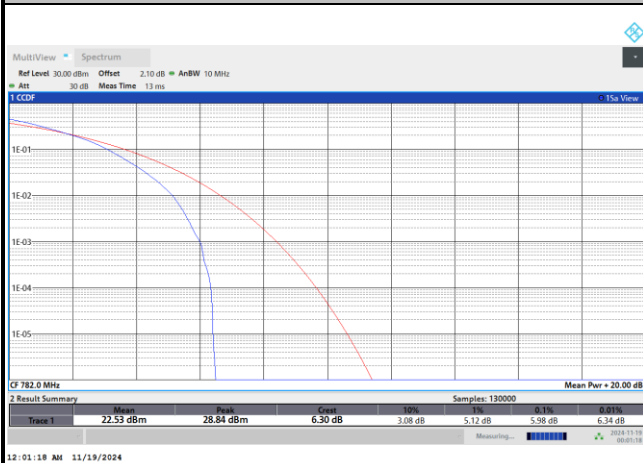
PI/2 BPSK



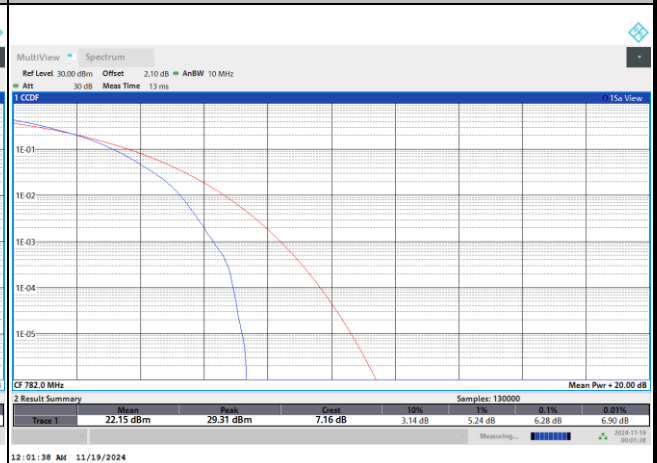
QPSK



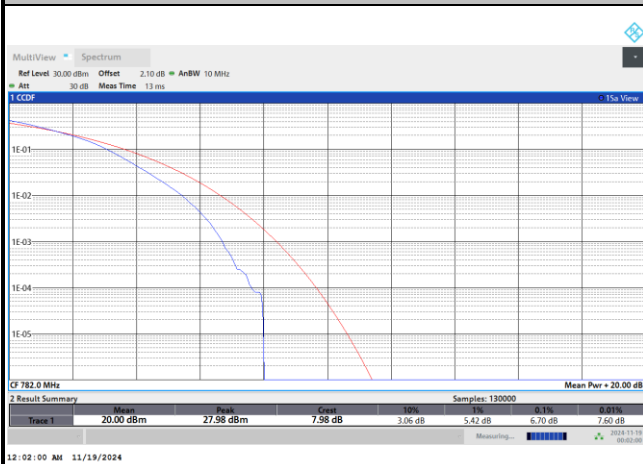
16QAM



64QAM



256QAM



**26dB Bandwidth**

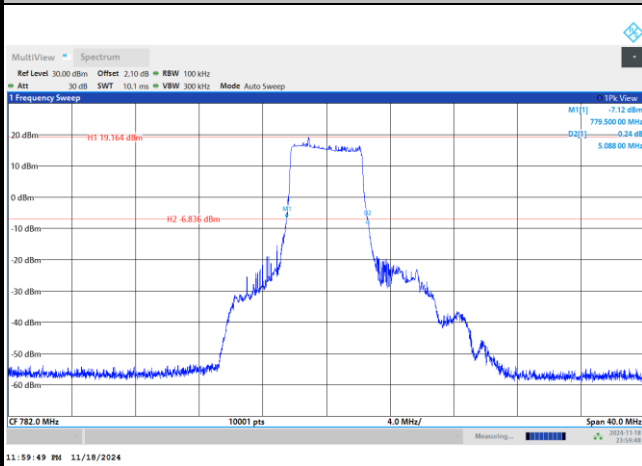
Mode	FR1 n13 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.08		9.83					

Mode	FR1 n13 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	5.22	5.20	10.26	10.22				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	5.21	5.24	10.20	10.25				



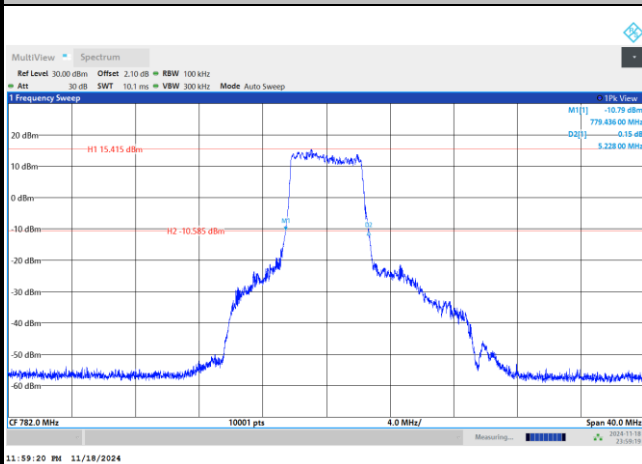
FR1 n13 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

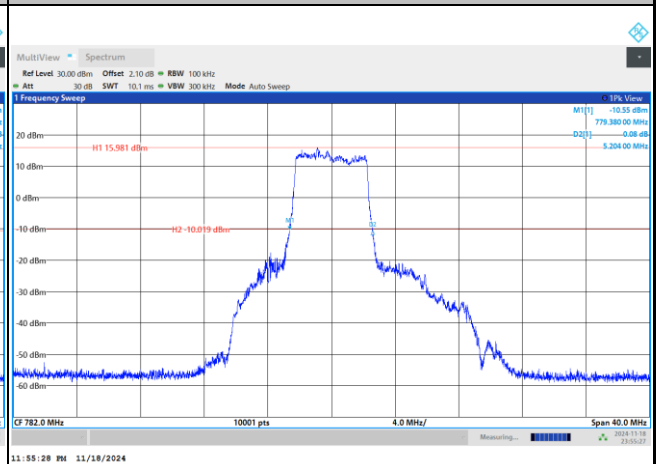


FR1 n13 / 5MHz / CP OFDM / Middle Channel / Full RB

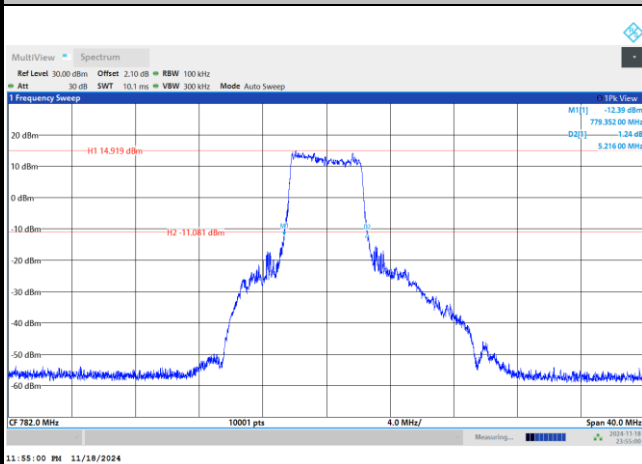
QPSK



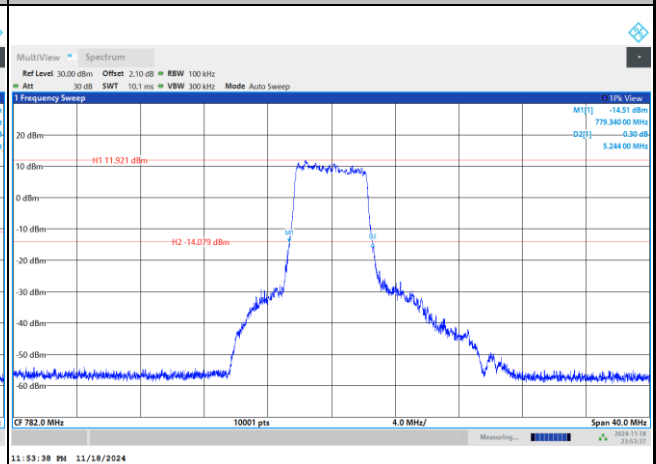
16QAM



64QAM



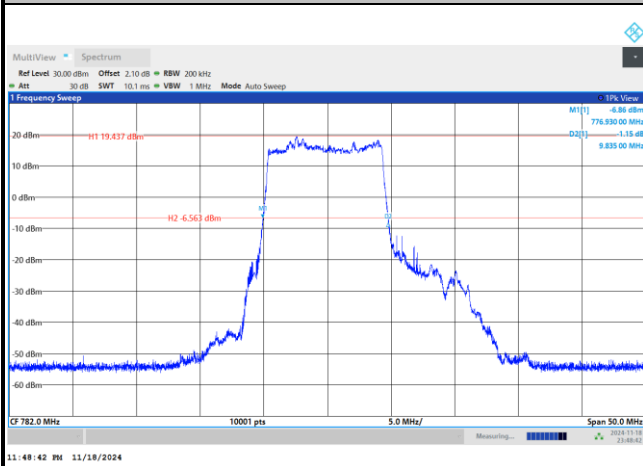
256QAM





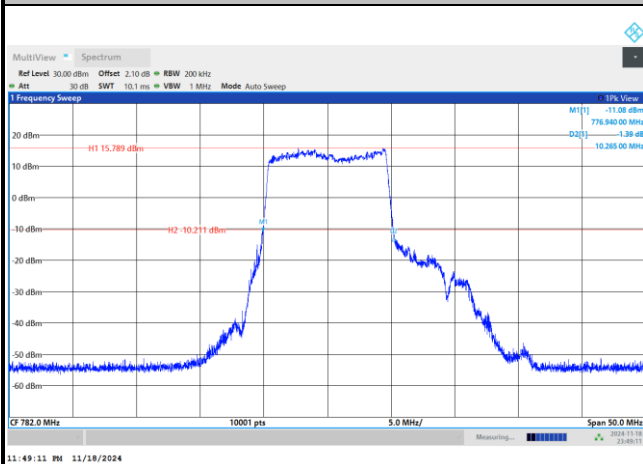
FR1 n13 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

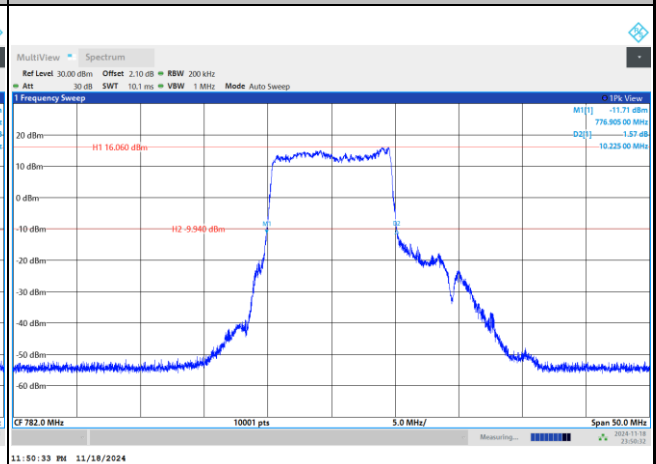


FR1 n13 / 10MHz / CP OFDM / Middle Channel / Full RB

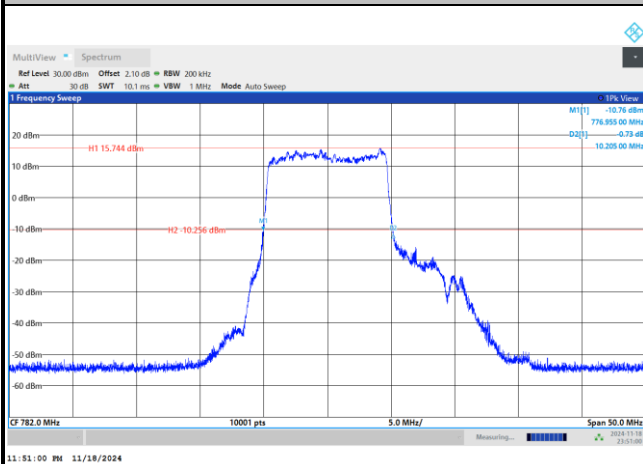
QPSK



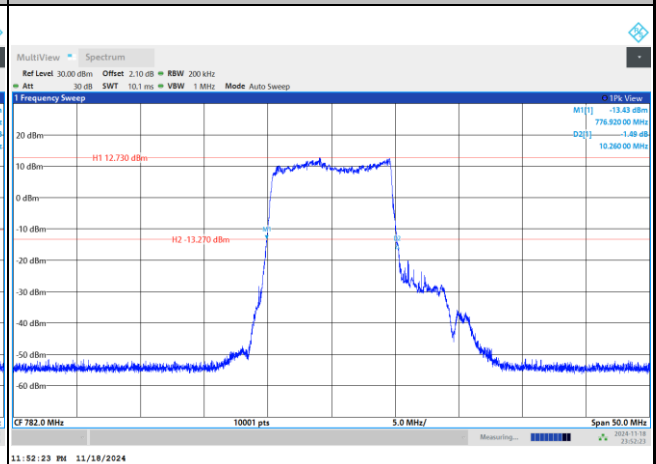
16QAM



64QAM



256QAM



**Occupied Bandwidth**

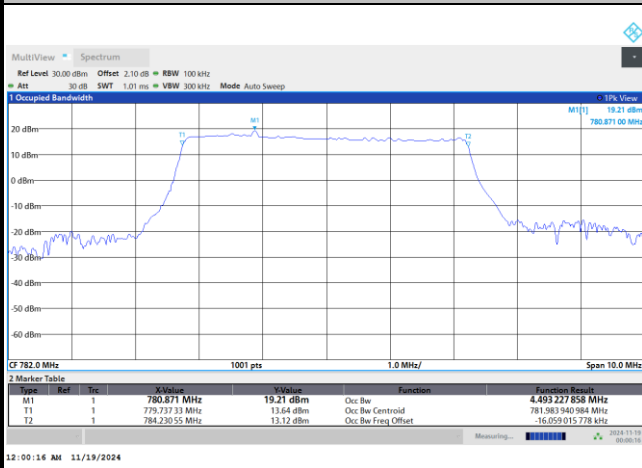
Mode	FR1 n13 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.49		8.99					

Mode	FR1 n13 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.52	4.54	9.34	9.33				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.53	4.53	9.31	9.34				



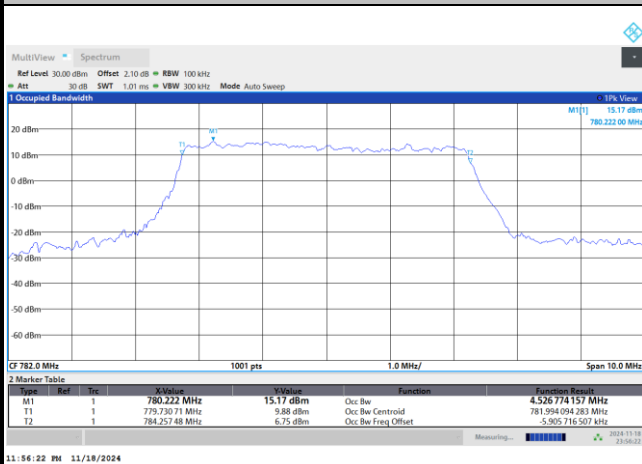
FR1 n13 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

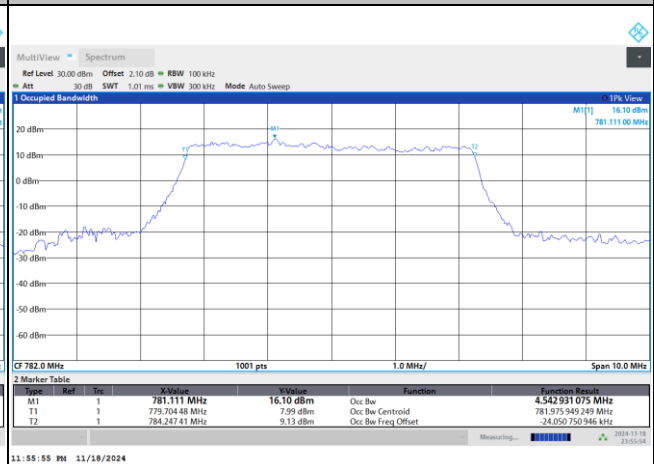


FR1 n13 / 5MHz / CP OFDM / Middle Channel / Full RB

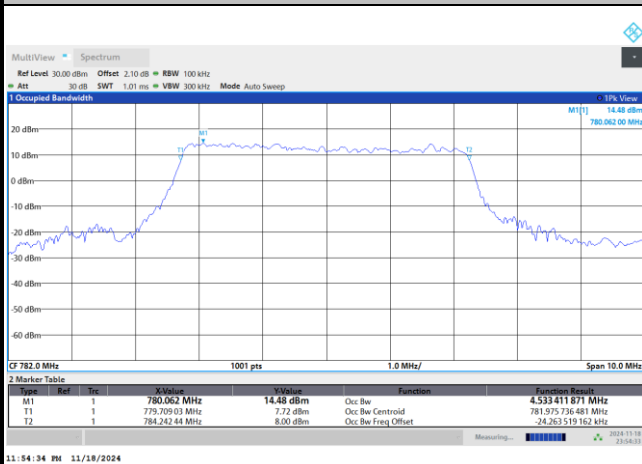
QPSK



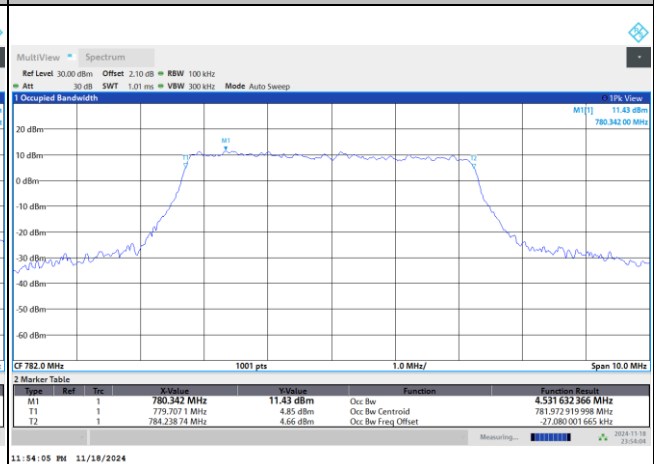
16QAM



64QAM



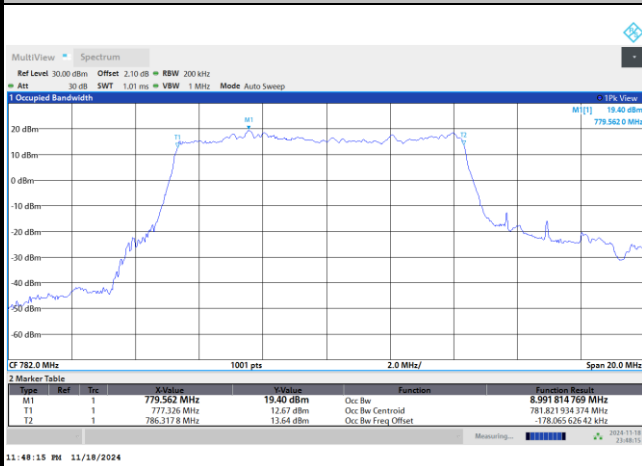
256QAM





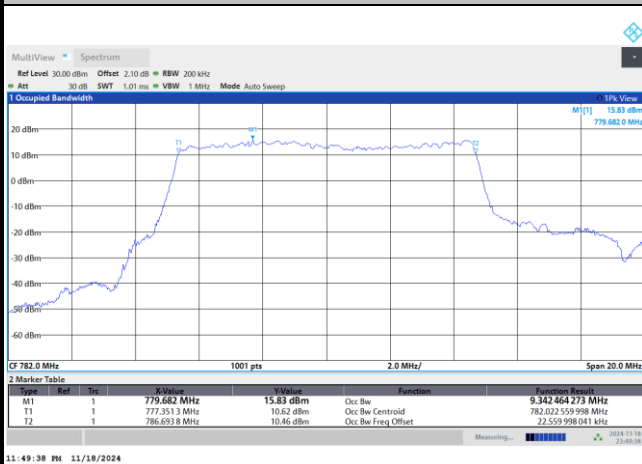
FR1 n13 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

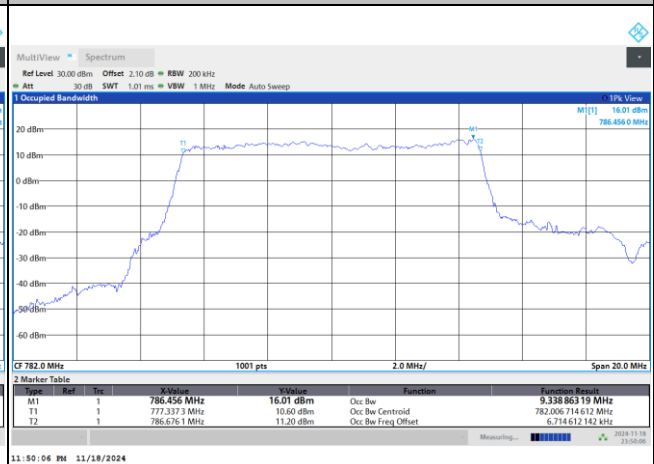


FR1 n13 / 10MHz / CP OFDM / Middle Channel / Full RB

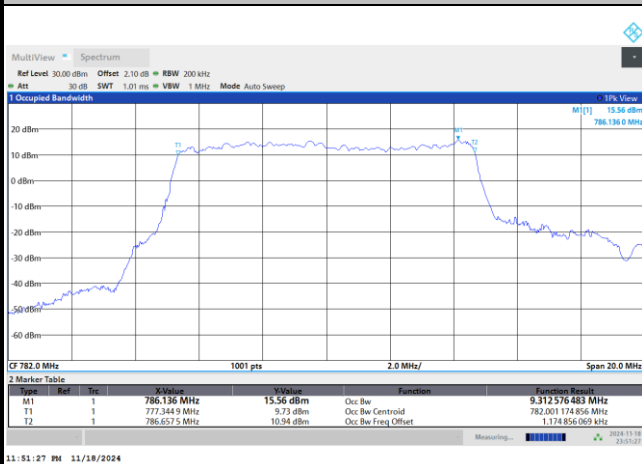
QPSK



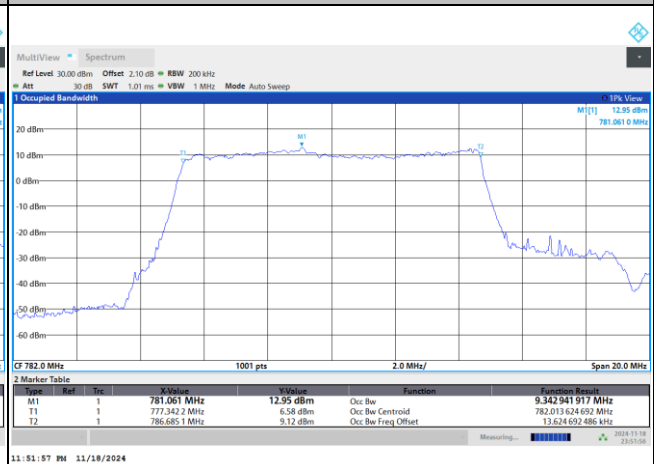
16QAM



64QAM



256QAM



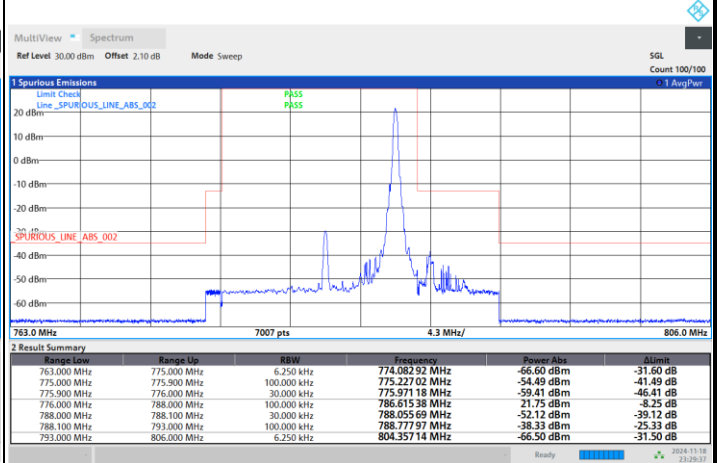
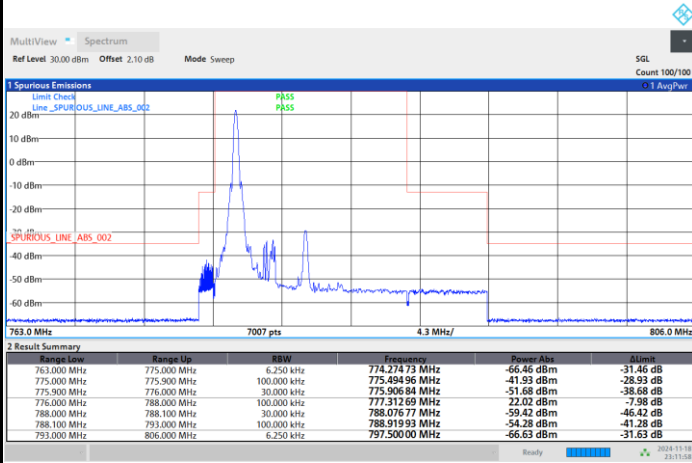


Conducted Band Edge

FR1 n13 / 5MHz / DFT-S OFDM / PI/2 BPSK

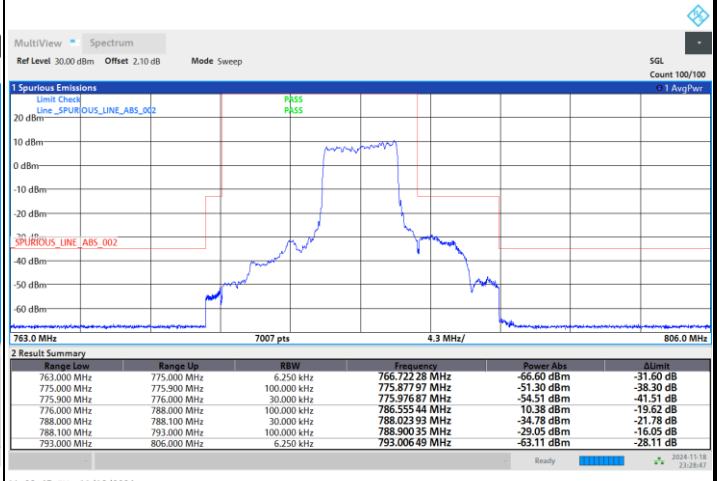
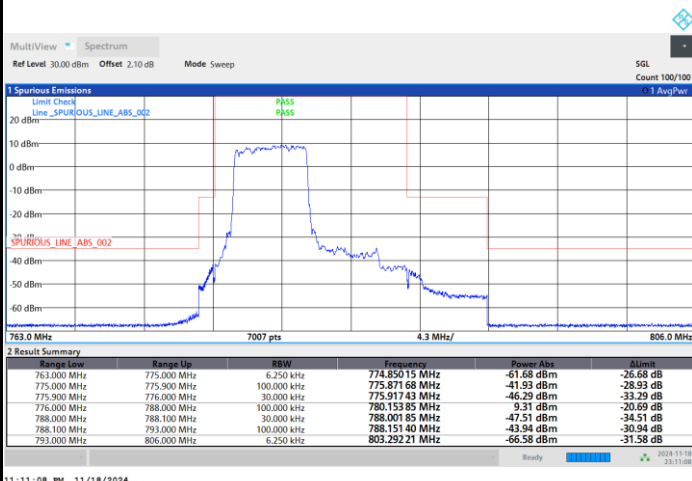
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

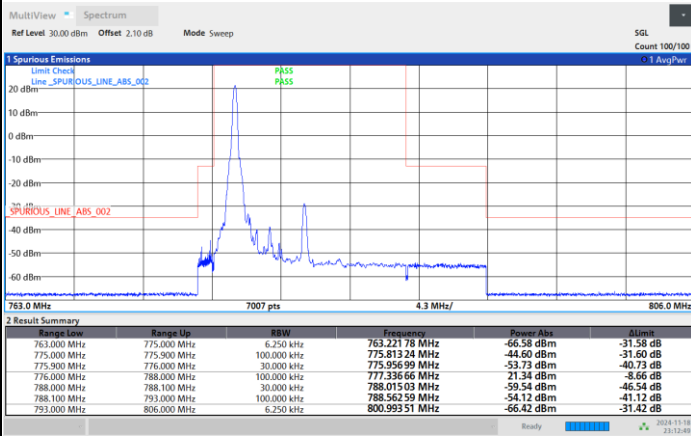




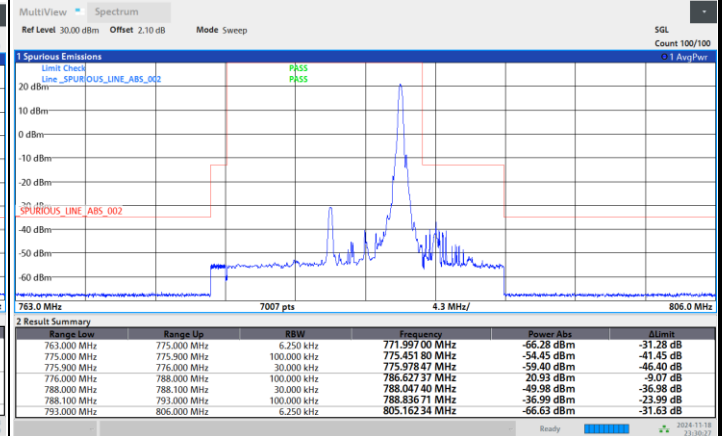
FR1 n13 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



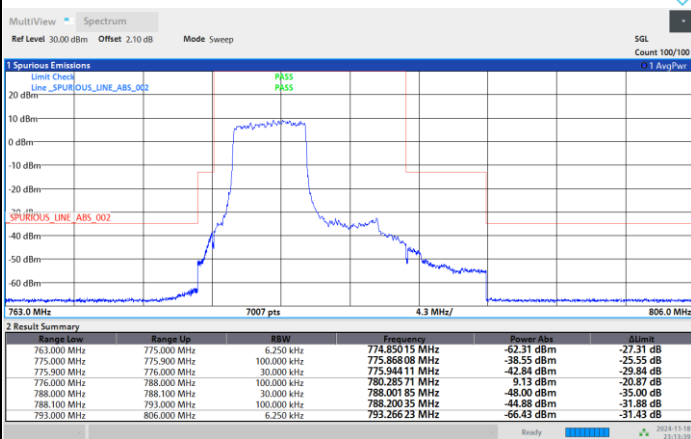
11:12:49 PM 11/18/2024



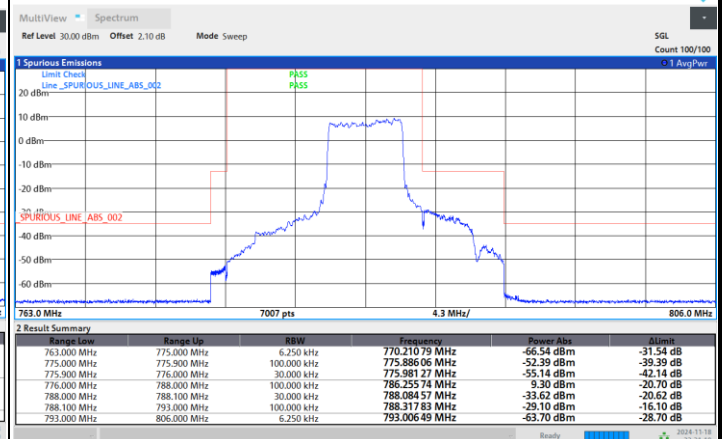
11:30:28 PM 11/18/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



11:13:39 PM 11/18/2024



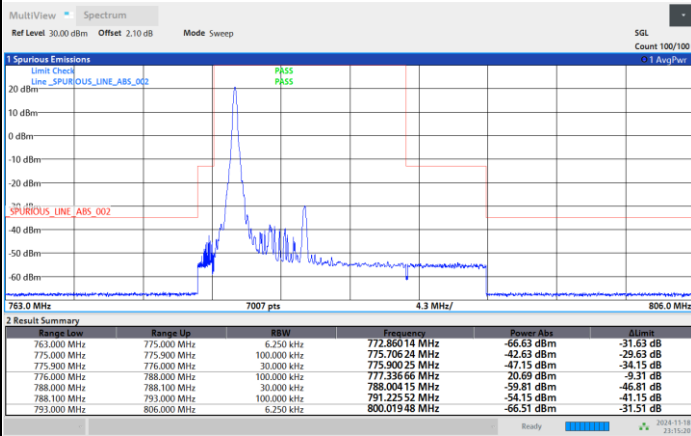
11:31:18 PM 11/18/2024



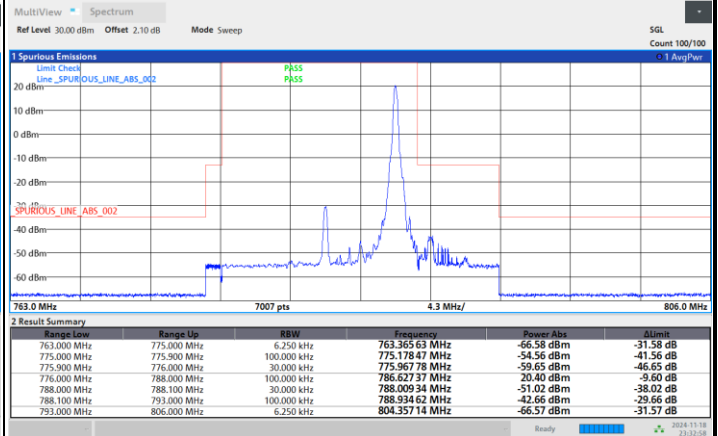
FR1 n13 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



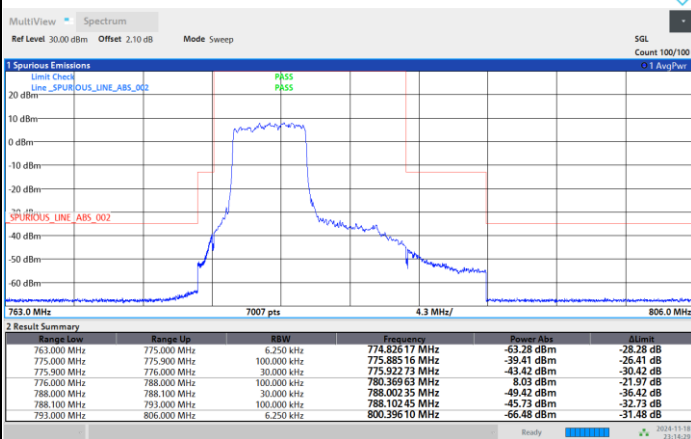
11:15:20 PM 11/18/2024



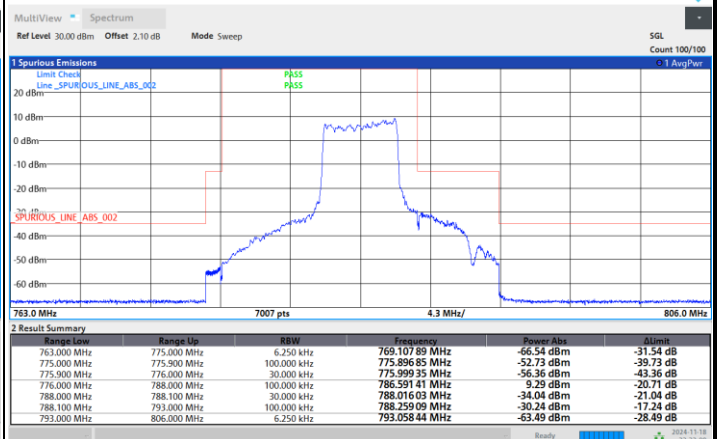
11:32:58 PM 11/18/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



11:14:30 PM 11/18/2024



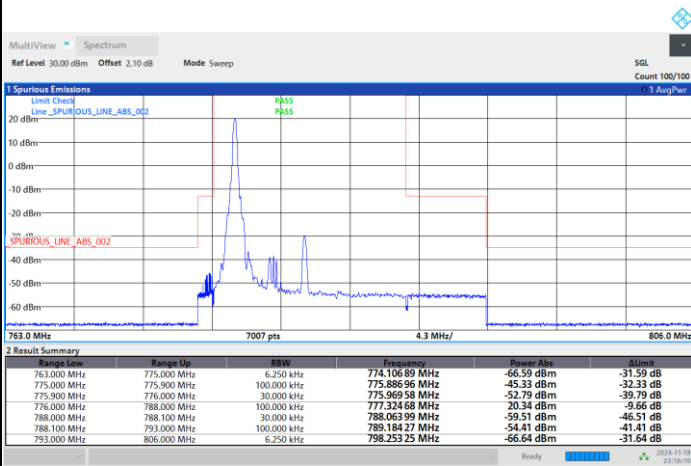
11:32:08 PM 11/18/2024



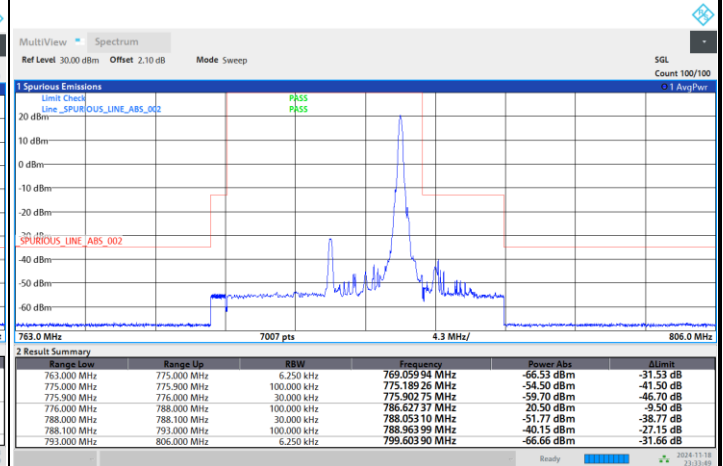
FR1 n13 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



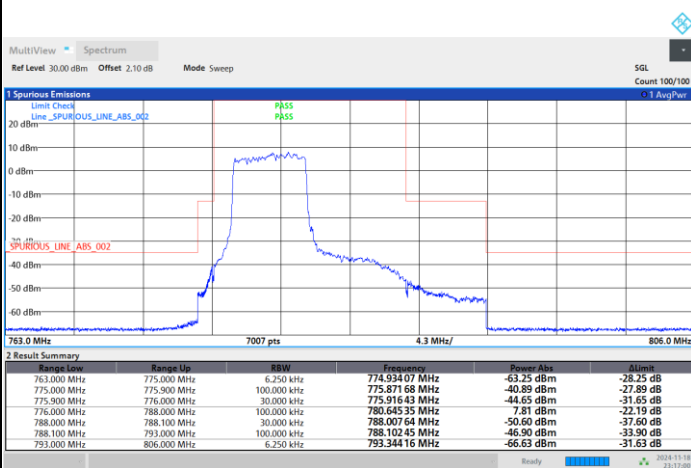
11:16:10 PM 11/18/2024



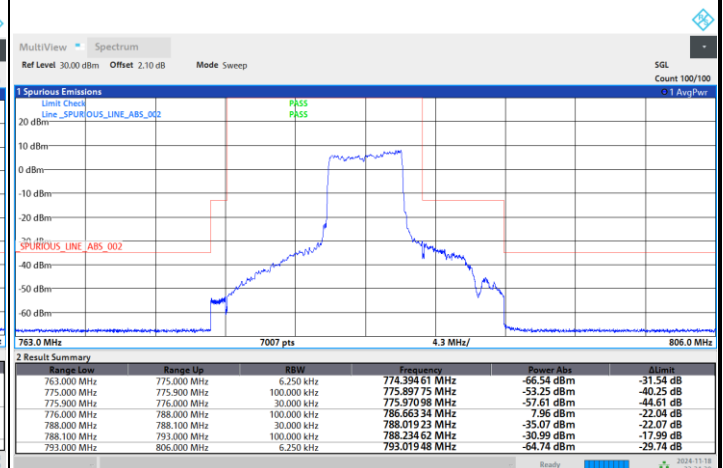
11:33:49 PM 11/18/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



11:17:00 PM 11/18/2024



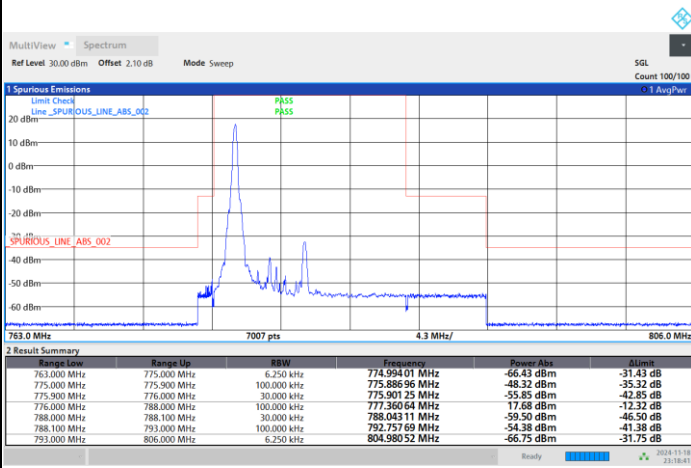
11:34:39 PM 11/18/2024



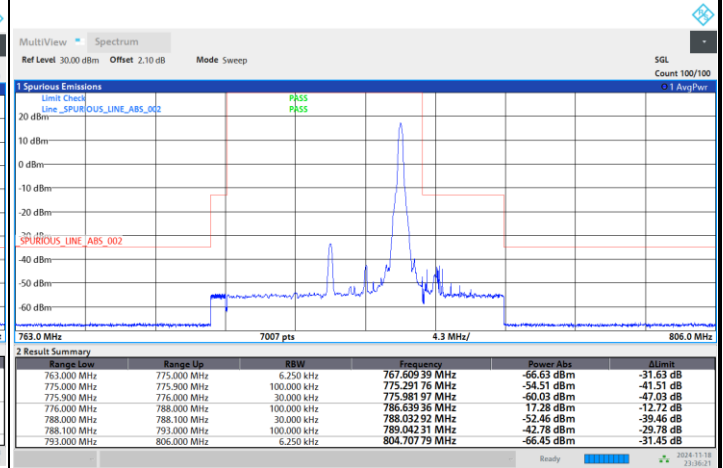
FR1 n13 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



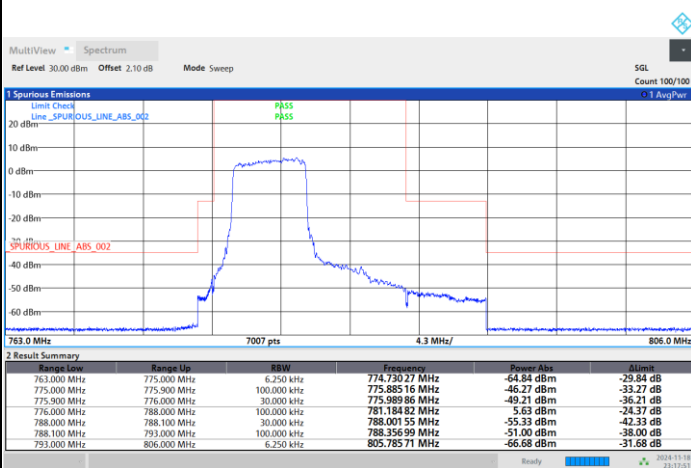
11:18:42 PM 11/18/2024



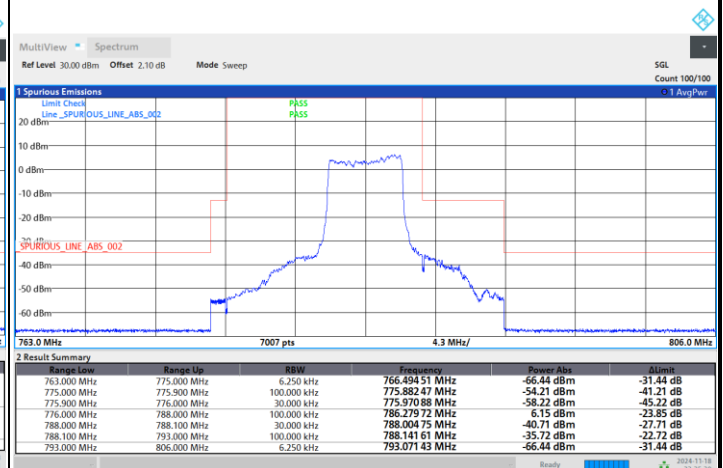
11:36:21 PM 11/18/2024

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



11:17:52 PM 11/18/2024



11:35:31 PM 11/18/2024