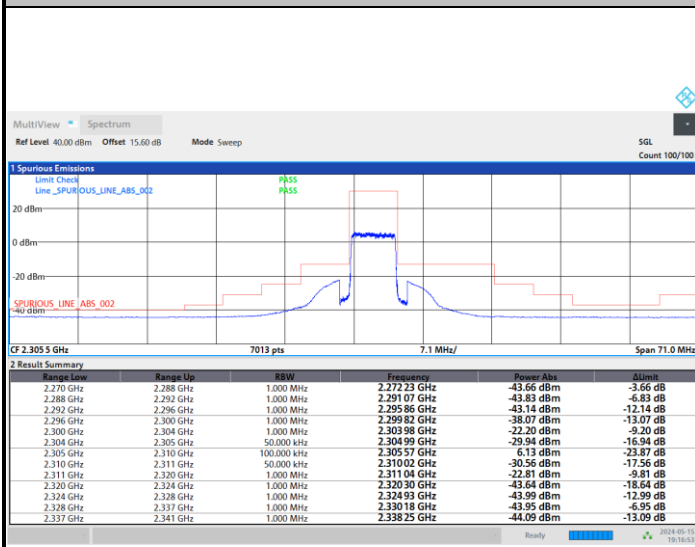
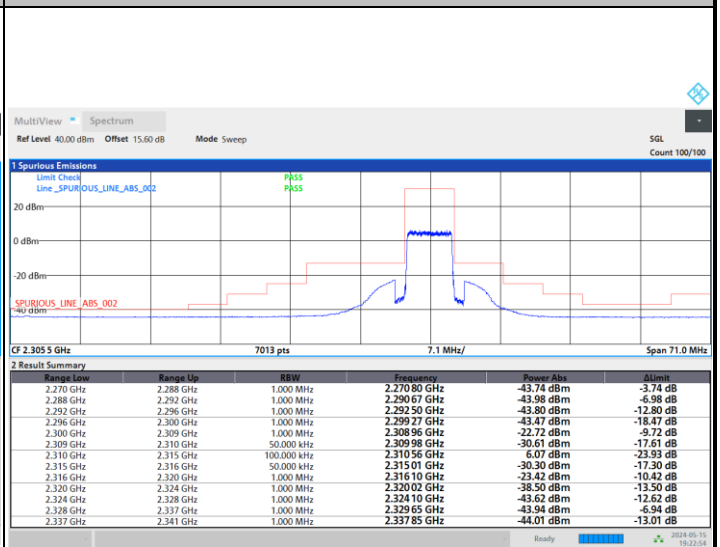




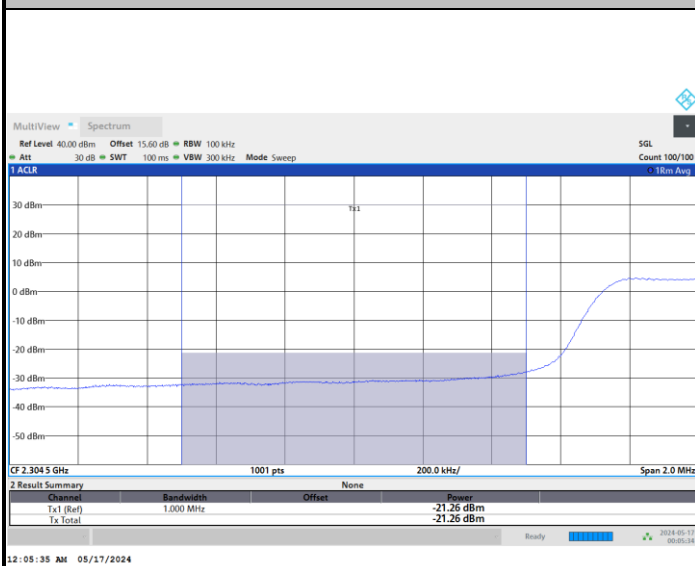
Lowest Band Edge / Full RB



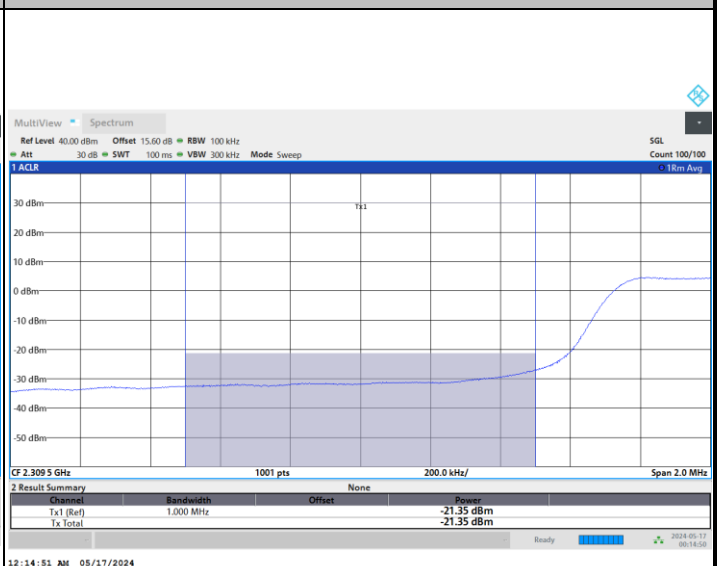
Highest Band Edge / Full RB



Lowest Band Edge / Full RB / Lower zoom in



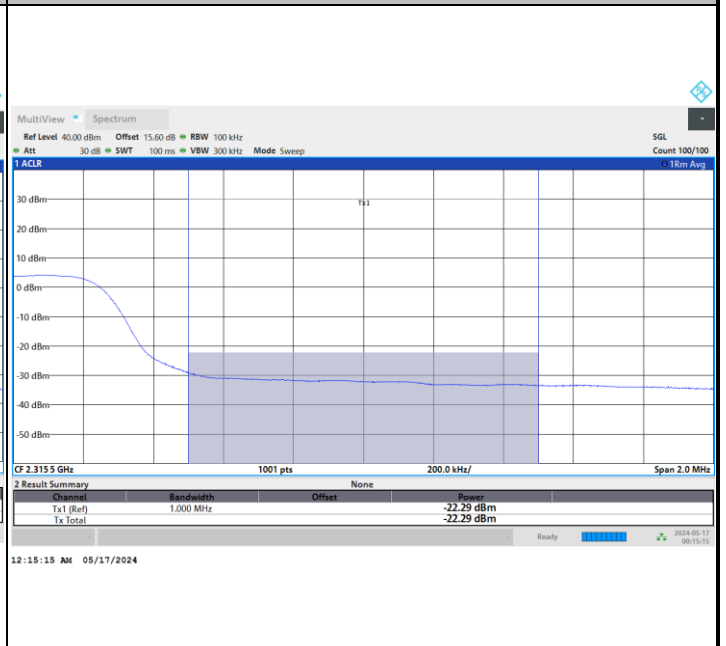
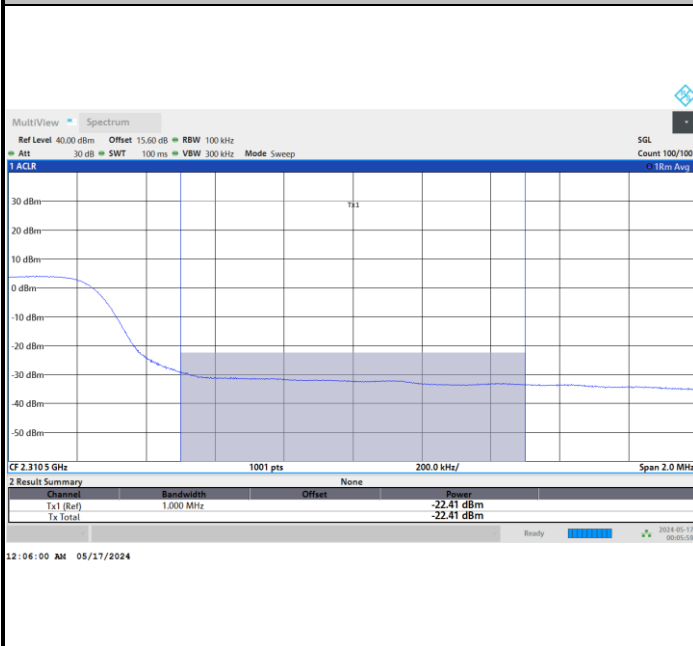
Highest Band Edge / Full RB / Lower zoom in





Lowest Band Edge / Full RB / Upper zoom in

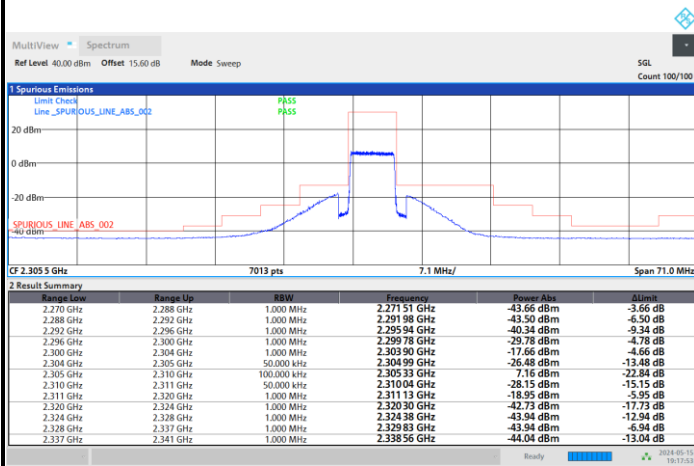
Highest Band Edge / Full RB / Upper zoom in





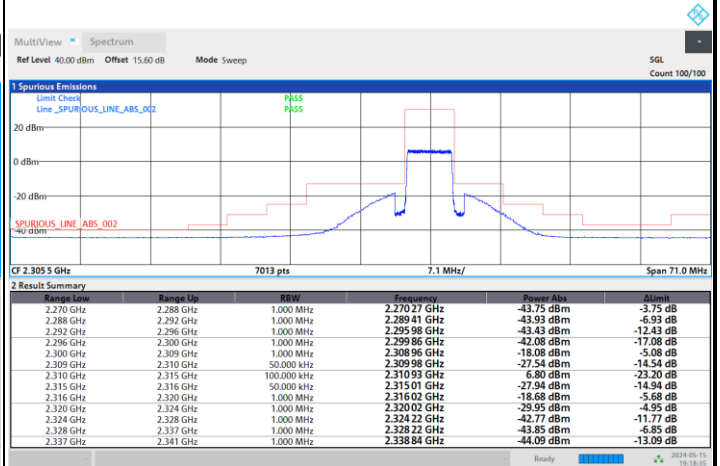
FR1 n30 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



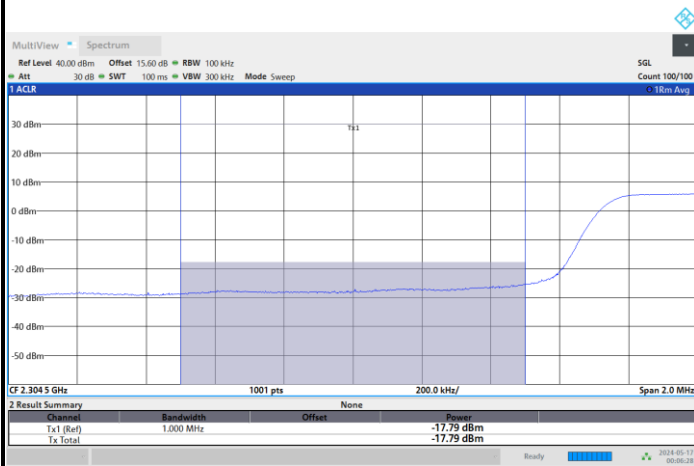
07:17:54 PM 05/15/2024

Highest Band Edge



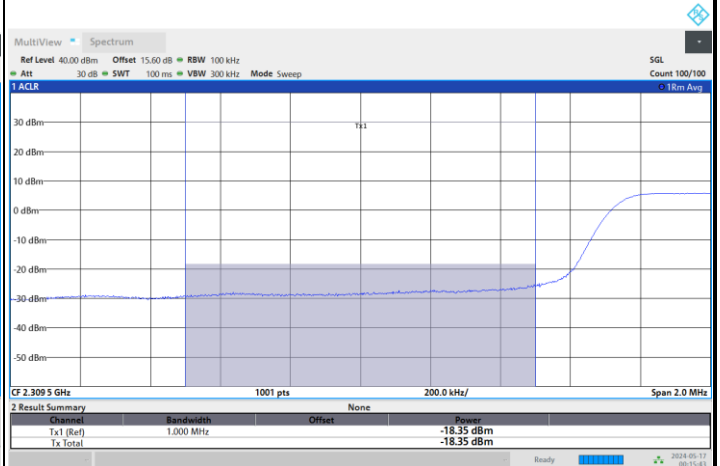
07:18:36 PM 05/15/2024

Lowest Band Edge / Full RB / Lower zoom in

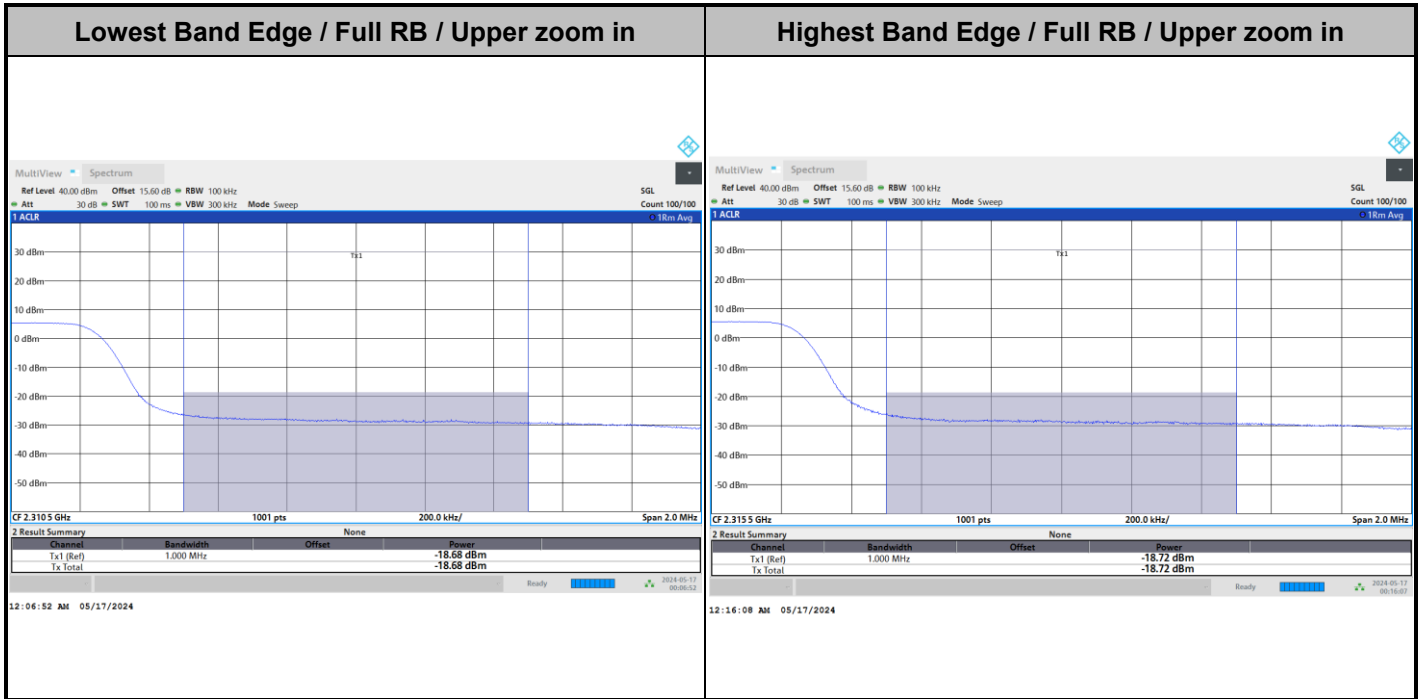


12:06:28 AM 05/17/2024

Highest Band Edge / Full RB / Lower zoom in



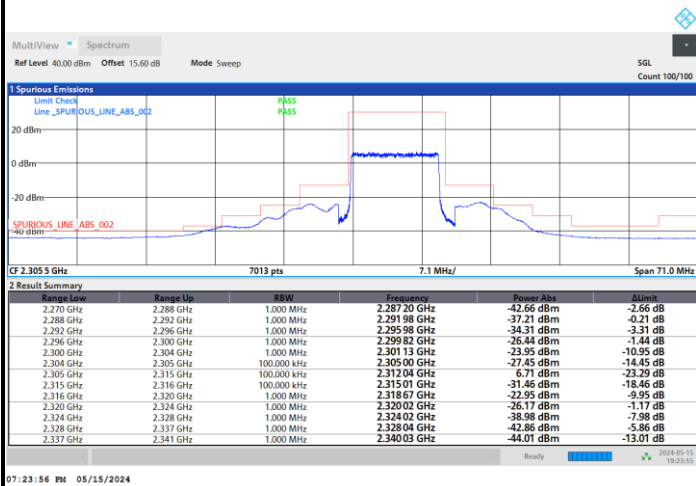
12:15:43 AM 05/17/2024



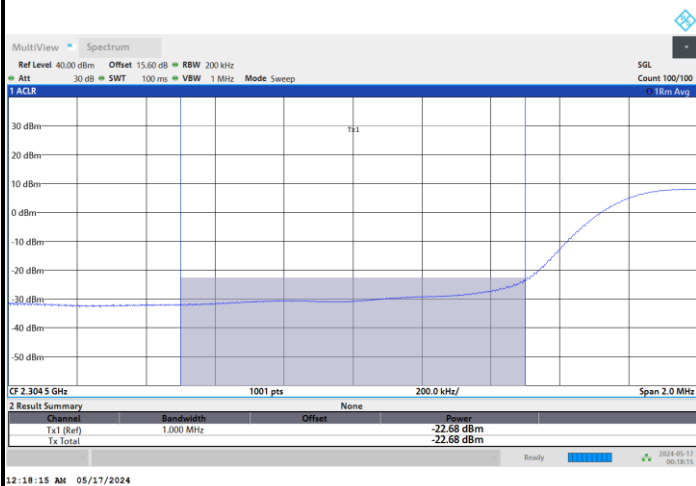


FR1 n30 / 10MHz / DFT-s-OFDM / PI/2 BPSK

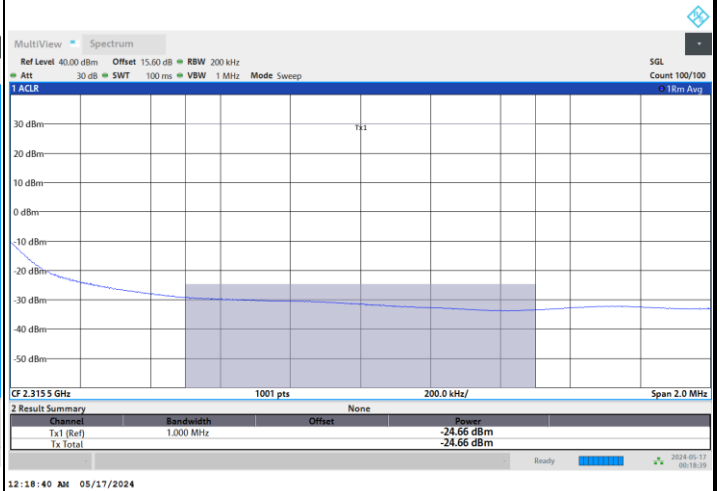
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



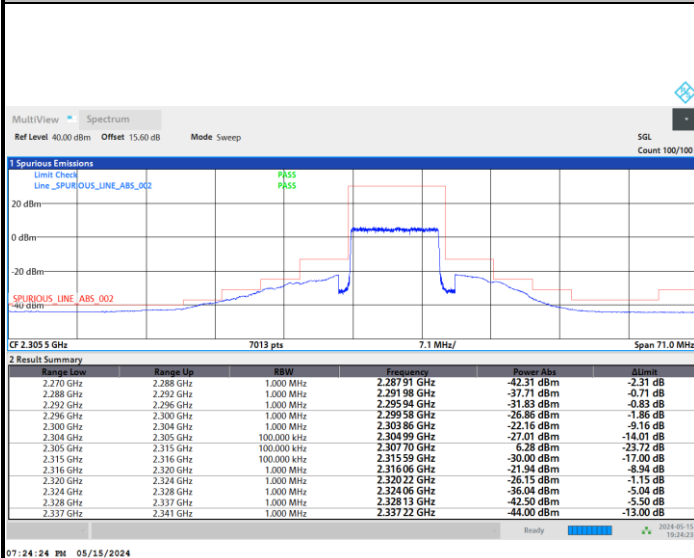
Middle Band Edge / Full RB / Upper zoom in



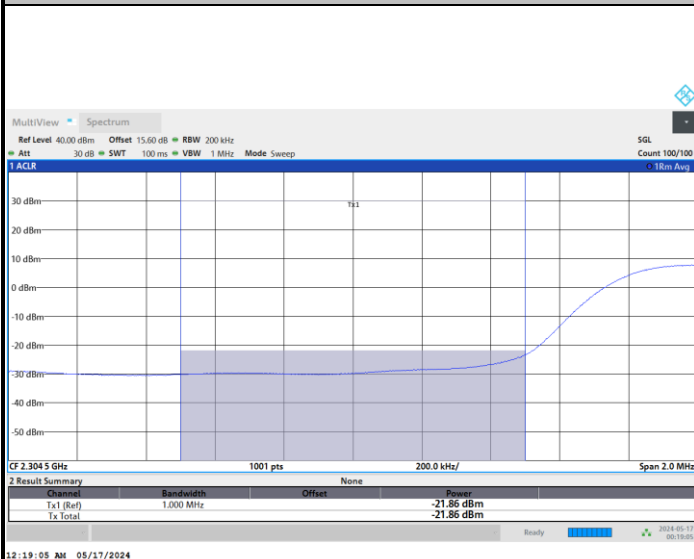


FR1 n30 / 10MHz / DFT-s-OFDM / QPSK

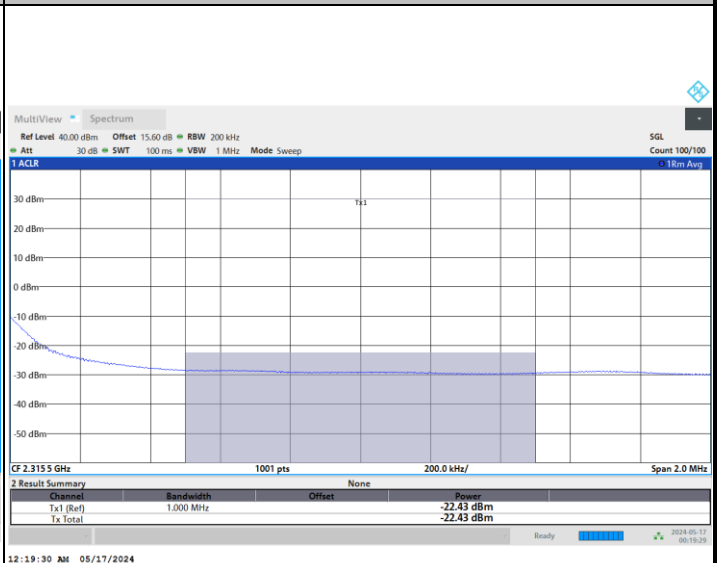
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



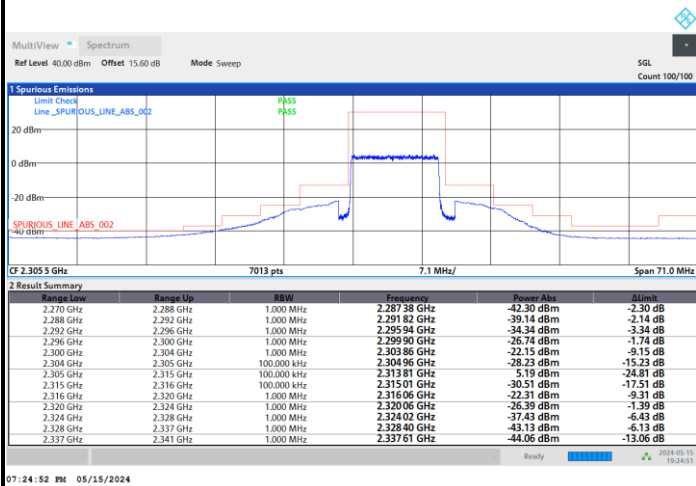
Middle Band Edge / Full RB / Upper zoom in



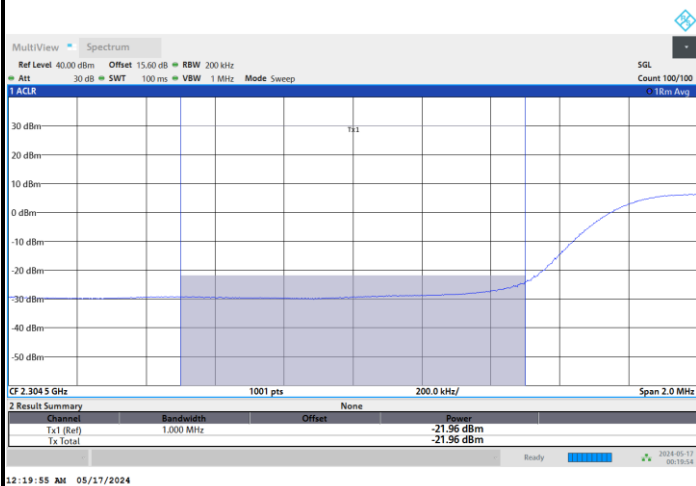


FR1 n30 / 10MHz / DFT-s-OFDM / 16QAM

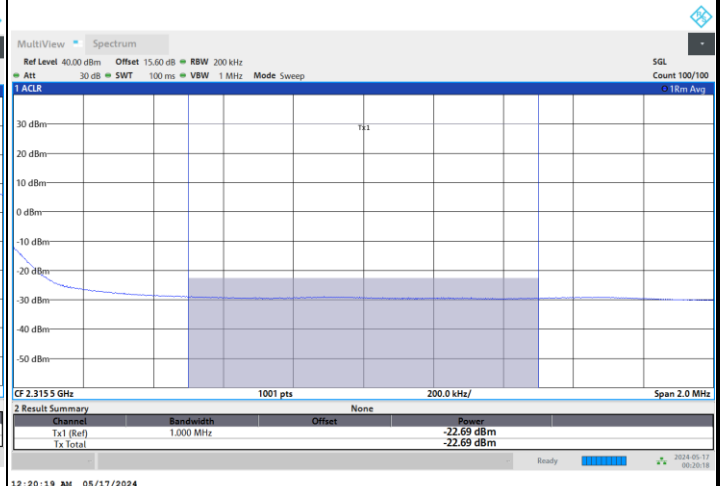
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



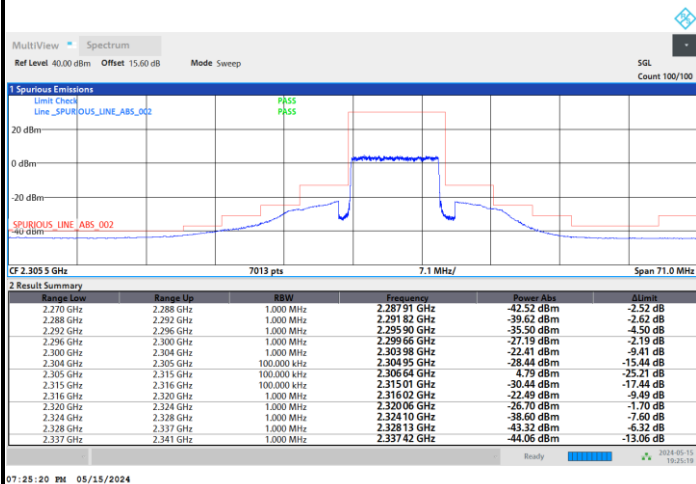
Middle Band Edge / Full RB / Upper zoom in



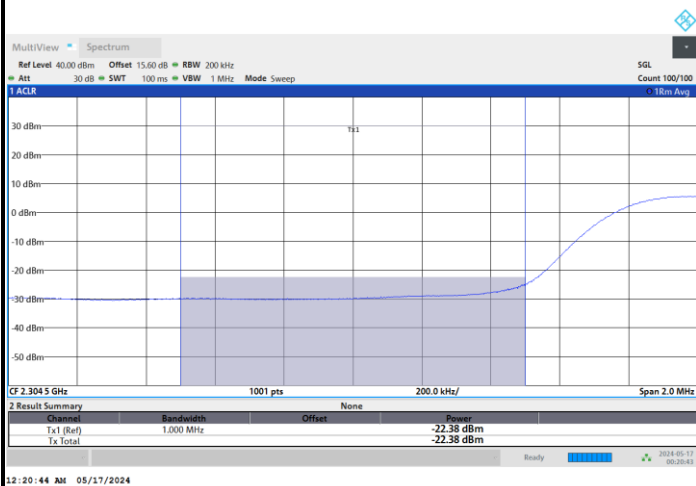


FR1 n30 / 10MHz / DFT-s-OFDM / 64QAM

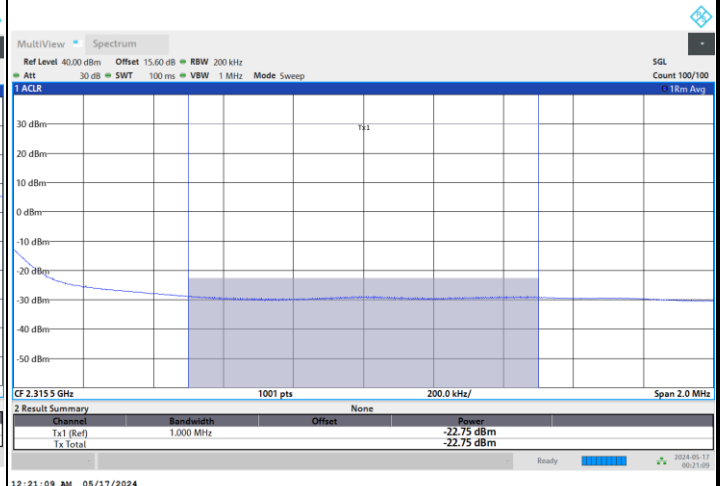
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



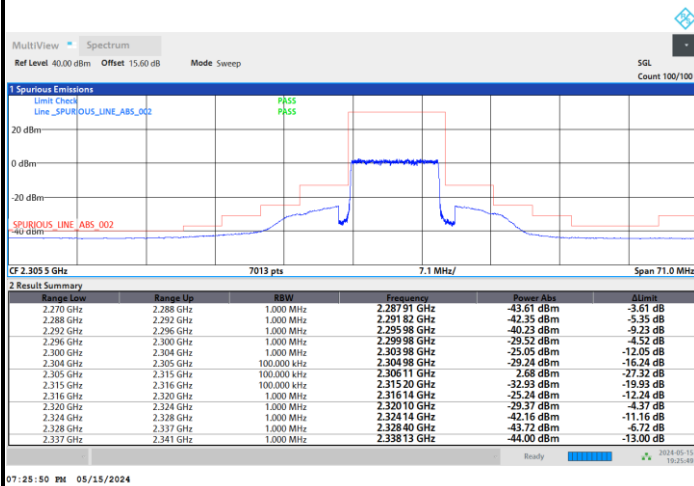
Middle Band Edge / Full RB / Upper zoom in



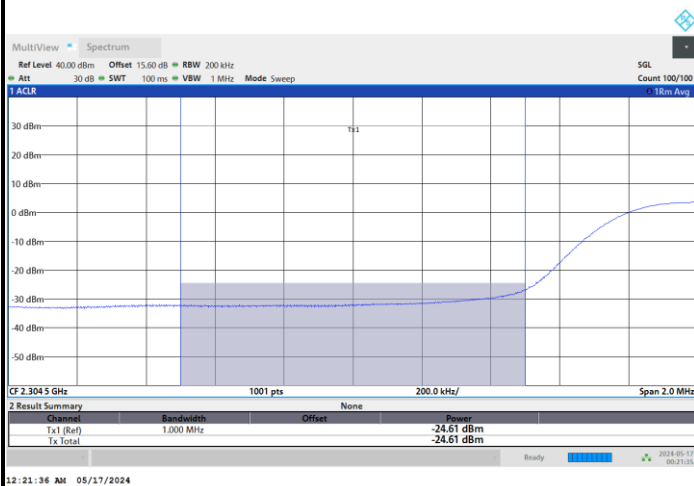


FR1 n30 / 10MHz / DFT-s-OFDM / 256QAM

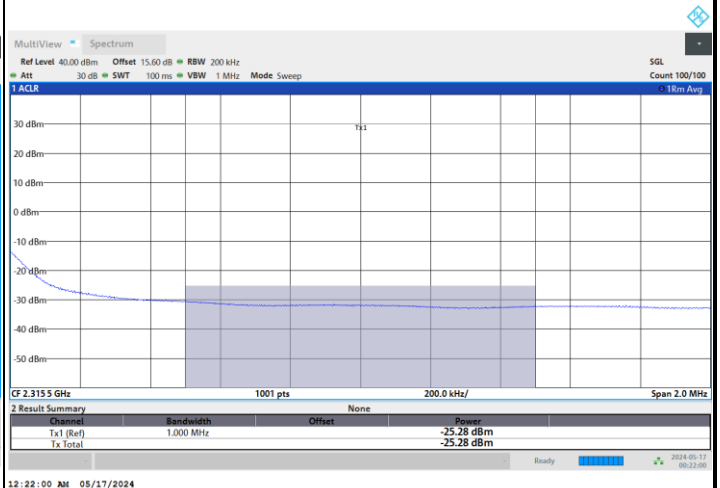
Middle Band Edge / Full RB



Middle Band Edge / Full RB / Lower zoom in



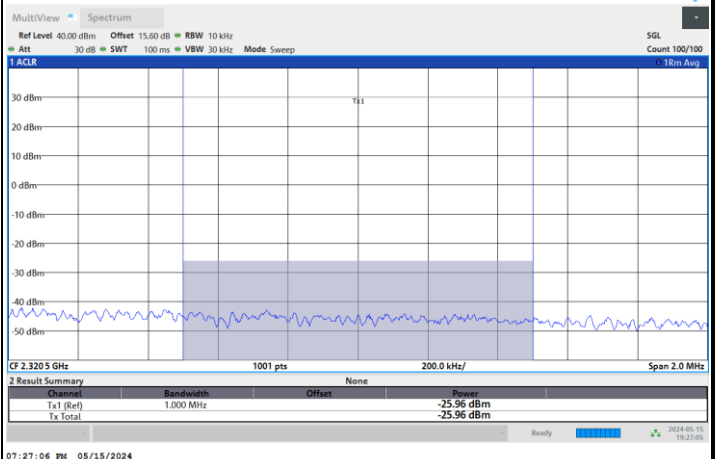
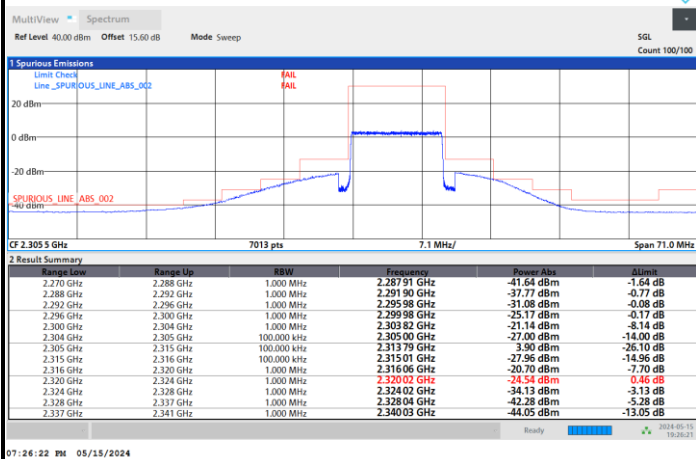
Middle Band Edge / Full RB / Upper zoom in





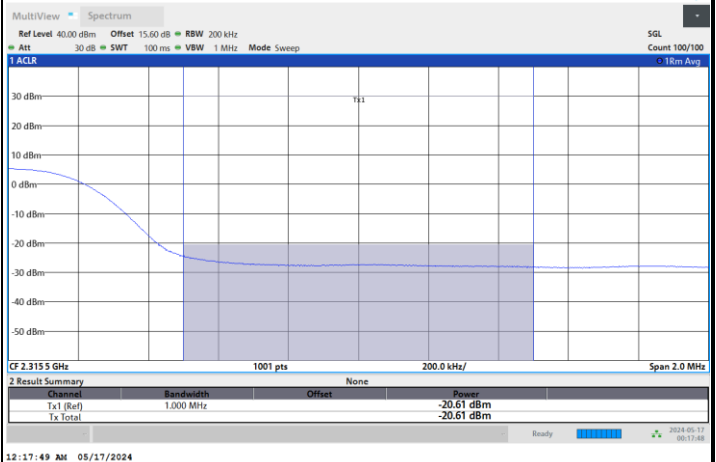
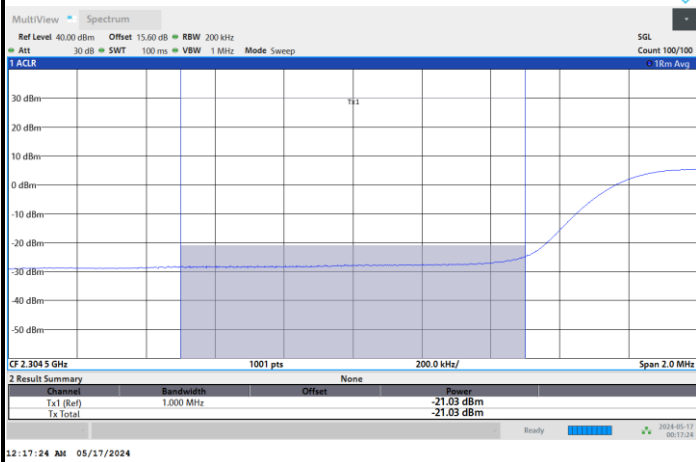
FR1 n30 / 10MHz / CP OFDM / QPSK / Full RB

Middle Band Edge / Full RB

Middle Band Edge / Full RB
Channel power -25dBm > -25.96dBm (PASS)

Middle Band Edge / Full RB / Lower zoom in

Middle Band Edge / Full RB / Upper zoom in

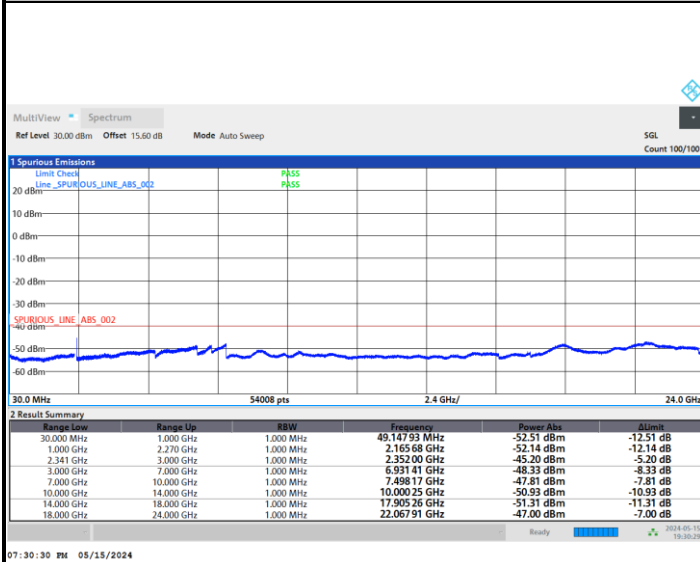




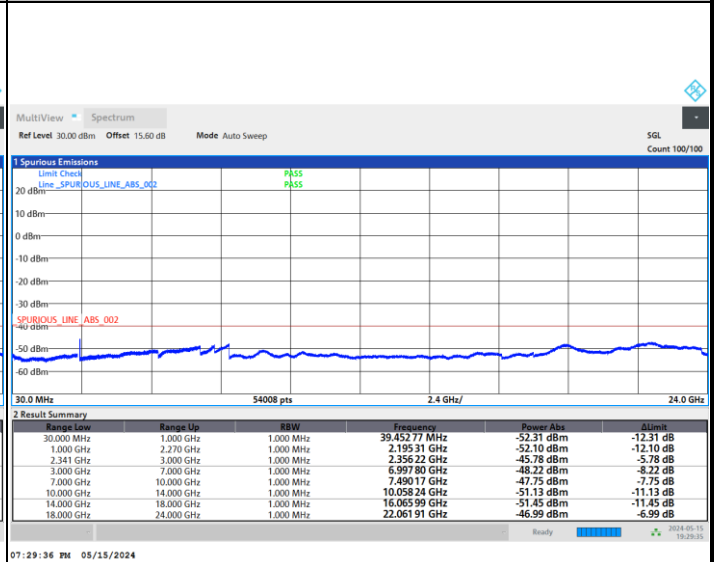
Conducted Spurious Emission

FR1 n30 / 5MHz / DFT-S OFDM / QPSK / 1RB1

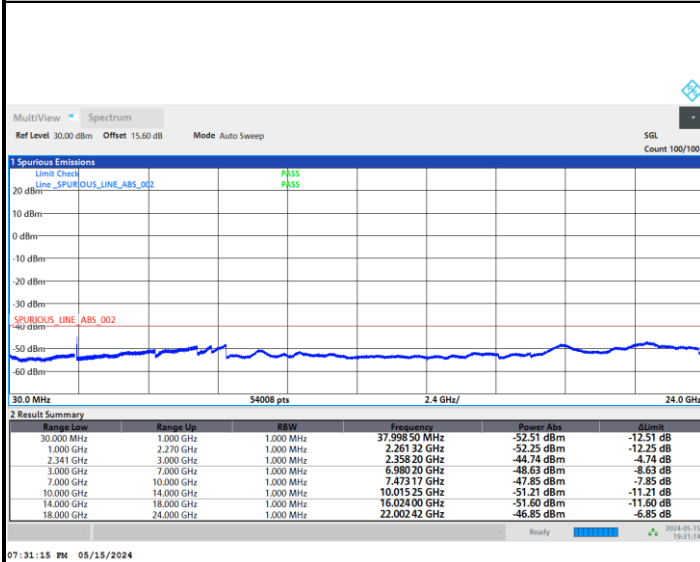
Lowest Channel



Middle Channel



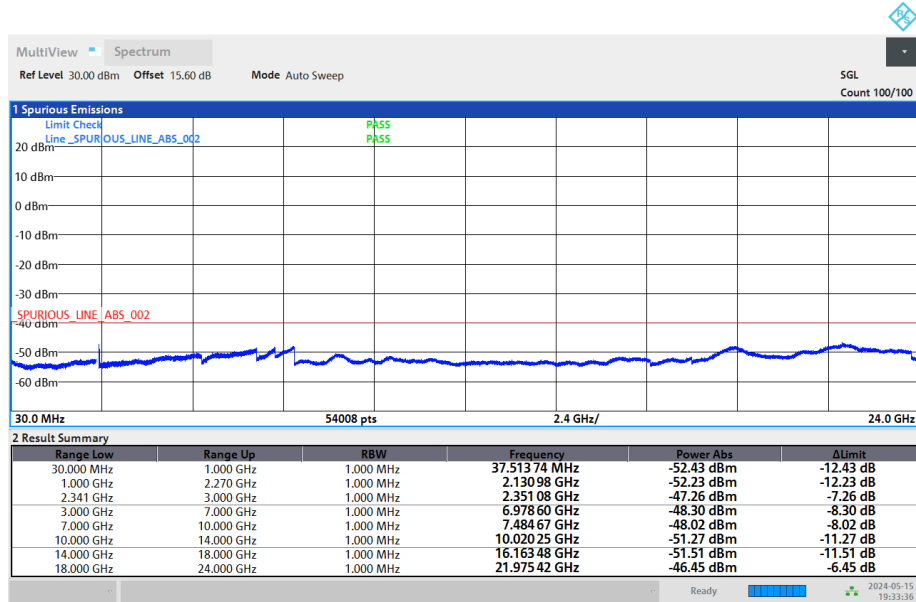
Highest Channel





FR1 n30 / 10MHz / DFT-S OFDM / QPSK / 1RB1

Middle Channel



07:33:37 PM 05/15/2024

Frequency Stability

Test Conditions		FR1 n30 (PI/2 BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0054	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

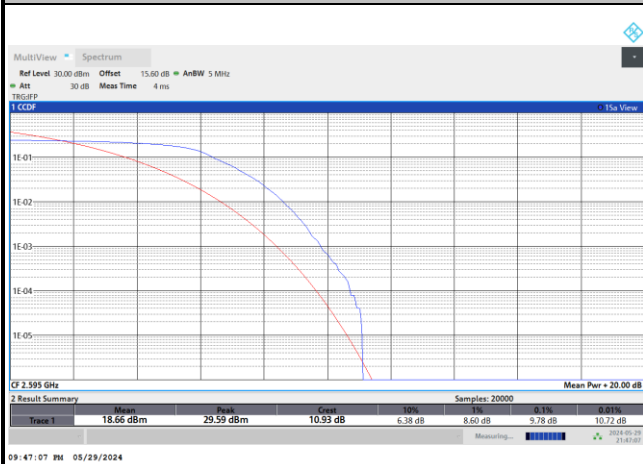
**FR1 n38****Peak-to-Average Ratio**

Mode	FR1 n38 / 5MHz / 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	9.78	10.82	11.44	11.60	PASS
Mode	FR1 n38 / 5MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	11.58				PASS

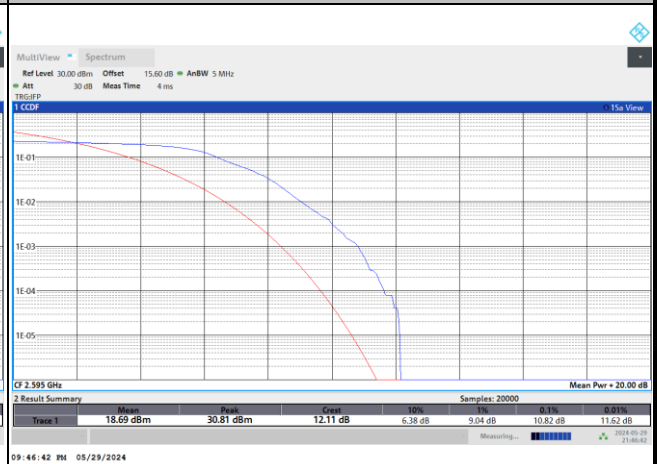


FR1 n38 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

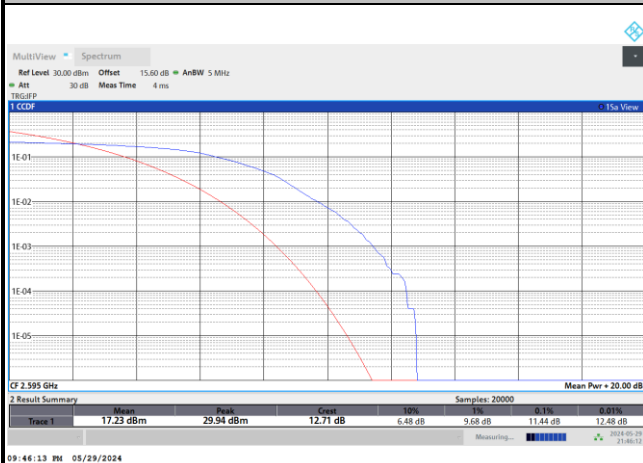
PI/2 BPSK



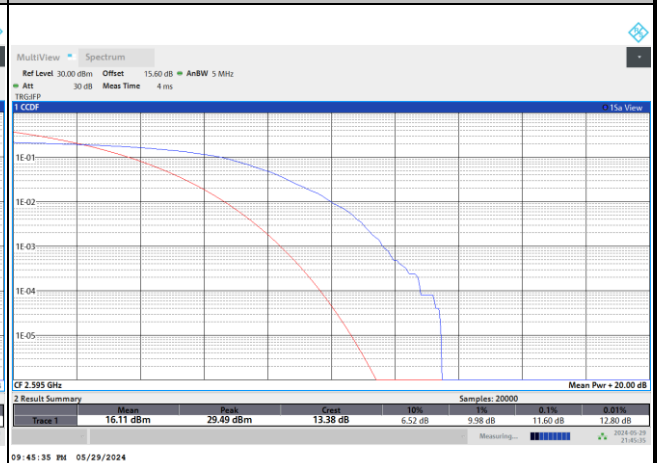
QPSK



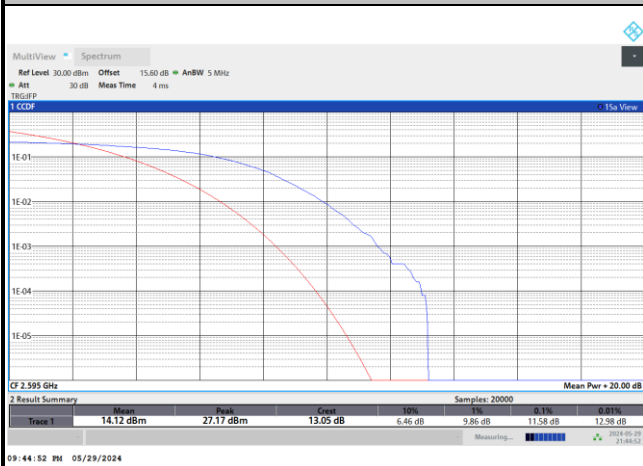
16QAM



64QAM



256QAM



**26dB Bandwidth**

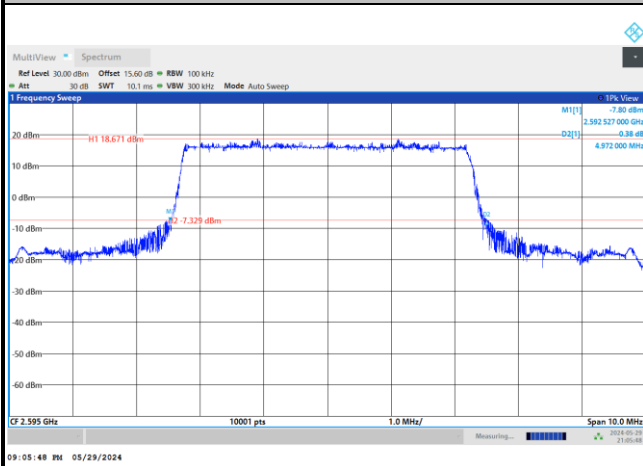
Mode	FR1 n38 : 26dB BW(MHz) / DFT-S OFDM				
BW	5MHz				
Mod.	PI/2 BPSK				
Middle CH	4.97				

Mode	FR1 n38 : 26dB BW(MHz) / CP OFDM									
BW	5MHz									
Mod.	QPSK	16QAM								
Middle CH	5.27	5.36								
Mod.	64QAM	256QAM								
Middle CH	4.94	5.36								



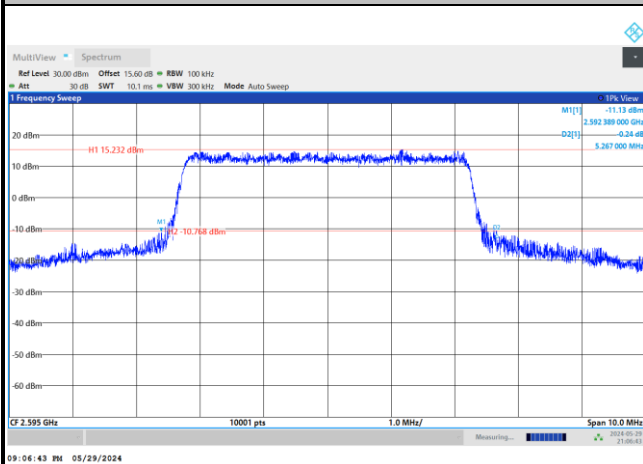
FR1 n38 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

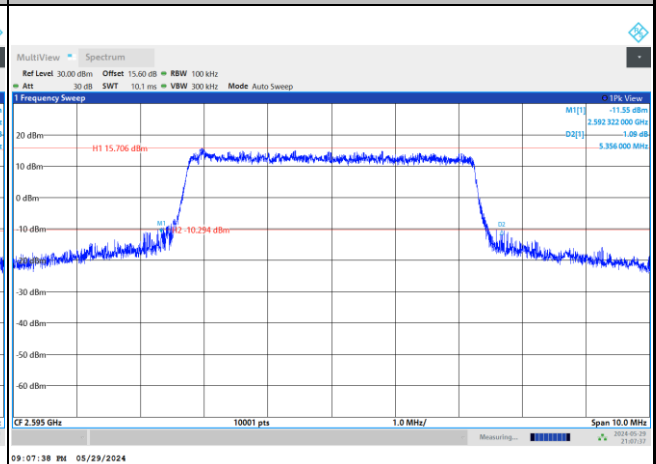


FR1 n38 / 5MHz / CP OFDM / Middle Channel / Full RB

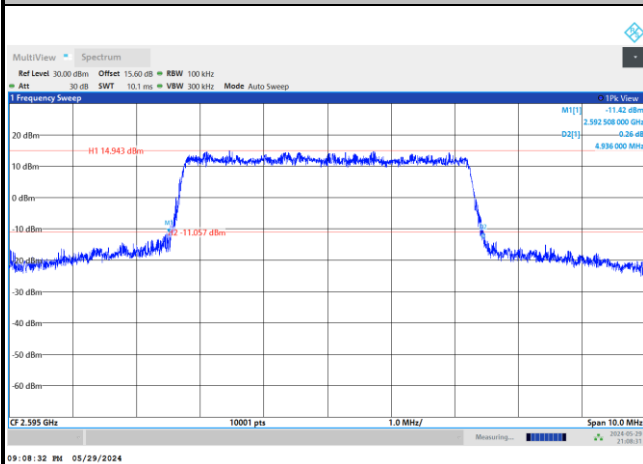
QPSK



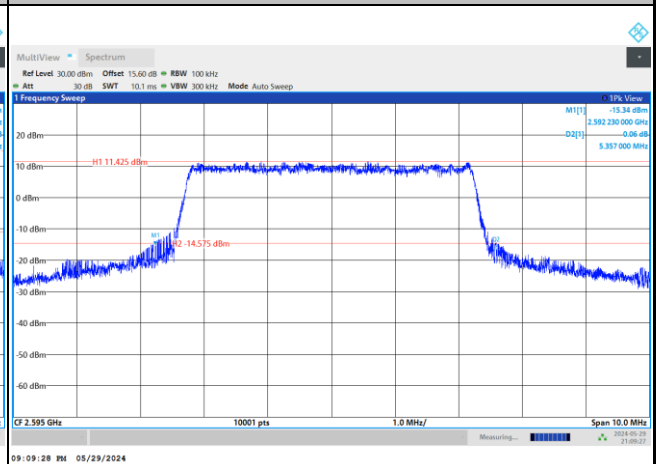
16QAM



64QAM



256QAM



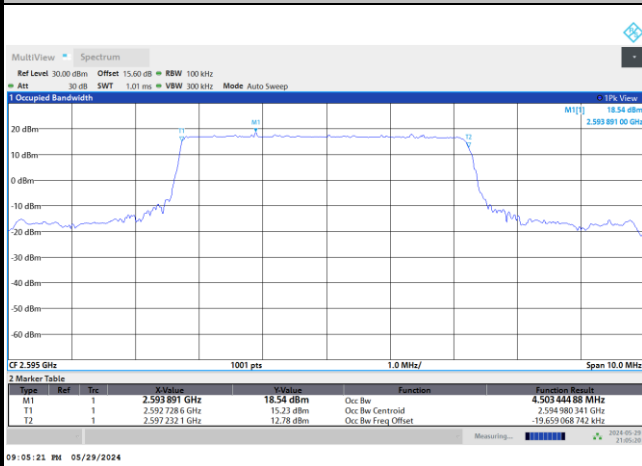
**Occupied Bandwidth**

Mode	FR1 n38 : OB BW(MHz) / DFT-S OFDM				
BW	5MHz				
Mod.	PI/2 BPSK				
Middle CH	4.50				

Mode	FR1 n38 : OB BW(MHz) / CP OFDM									
BW	5MHz									
Mod.	QPSK	16QAM								
Middle CH	4.50	4.50								
Mod.	64QAM	256QAM								
Middle CH	4.50	4.50								

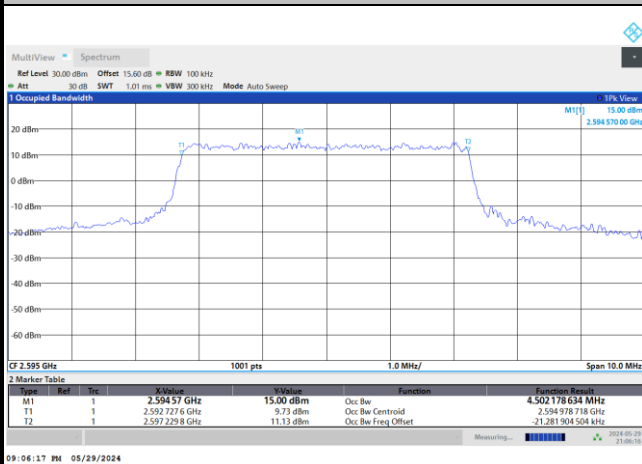
FR1 n38 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

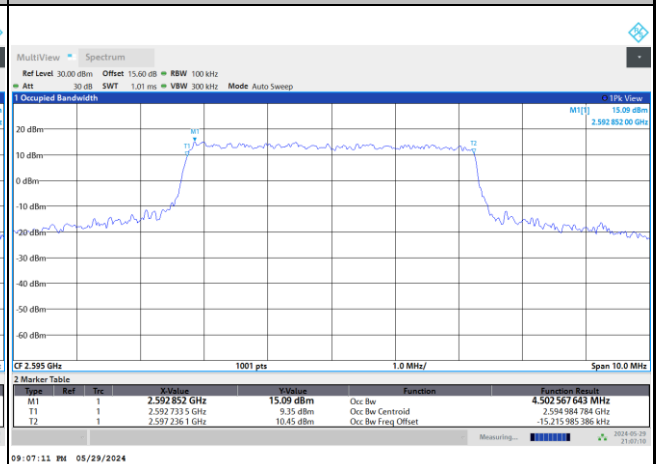


FR1 n38 / 5MHz / CP OFDM / Middle Channel / Full RB

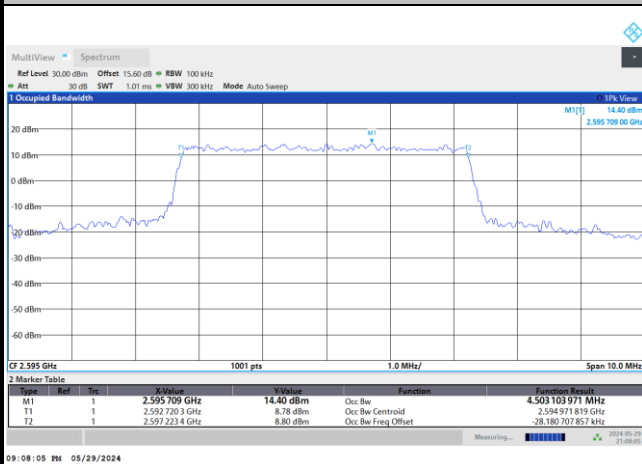
QPSK



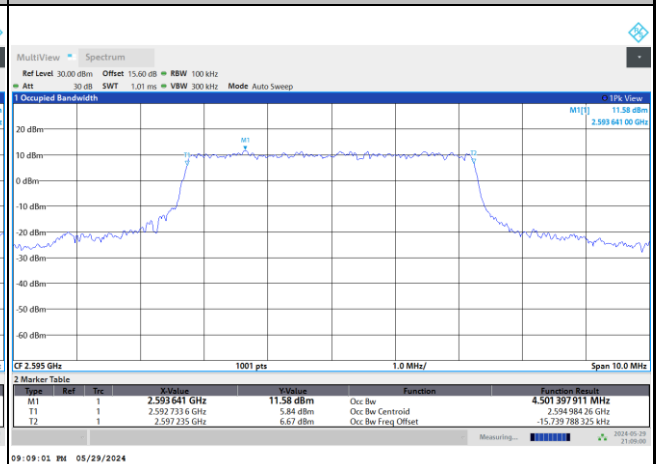
16QAM



64QAM



256QAM



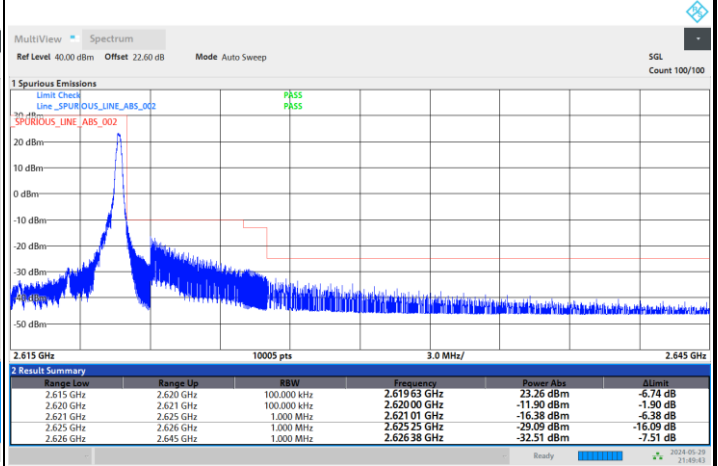
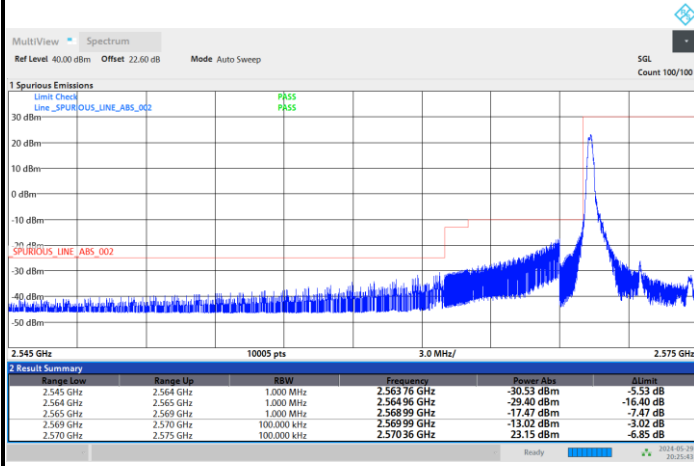


Conducted Band Edge

FR1 n38 / 5MHz / DFT-S OFDM / PI/2 BPSK

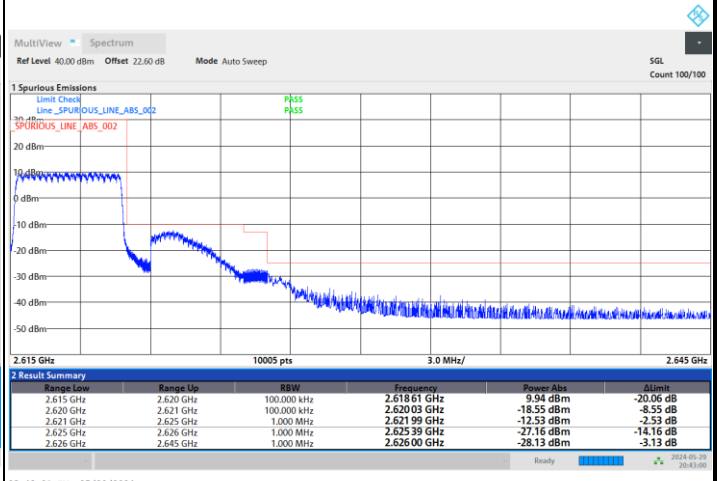
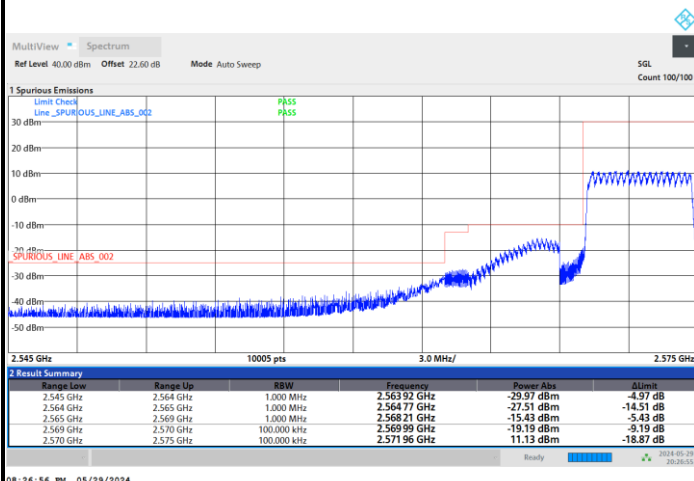
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

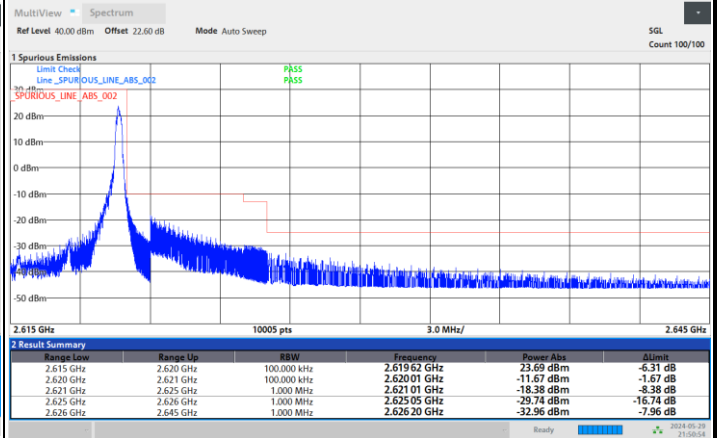
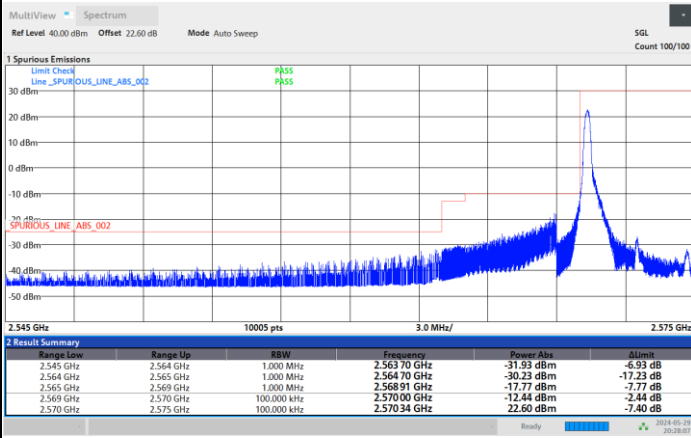




FR1 n38 / 10MHz / DFT-S OFDM / QPSK

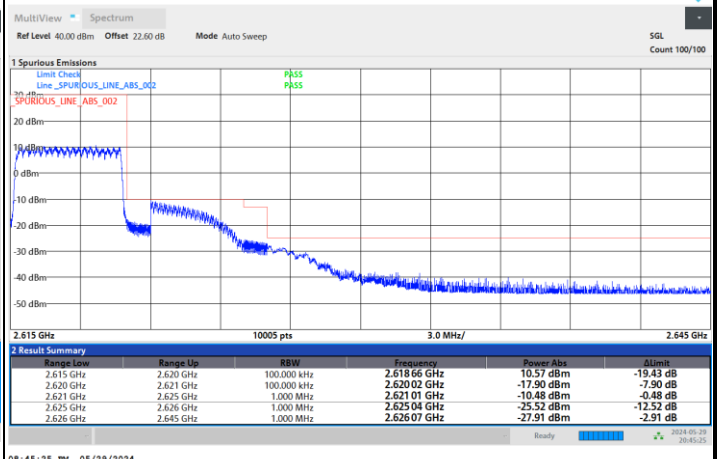
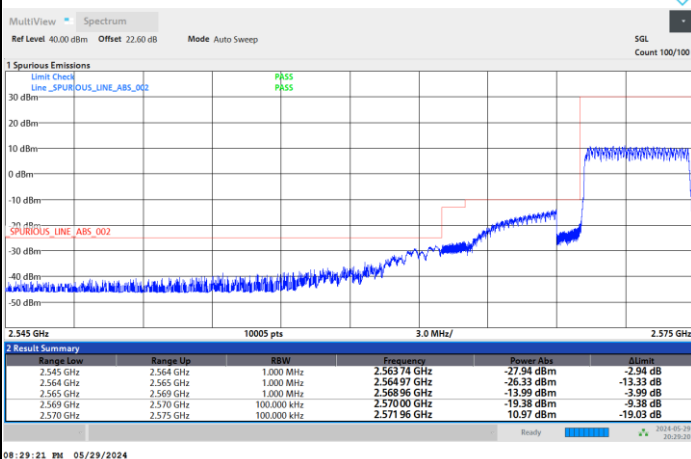
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

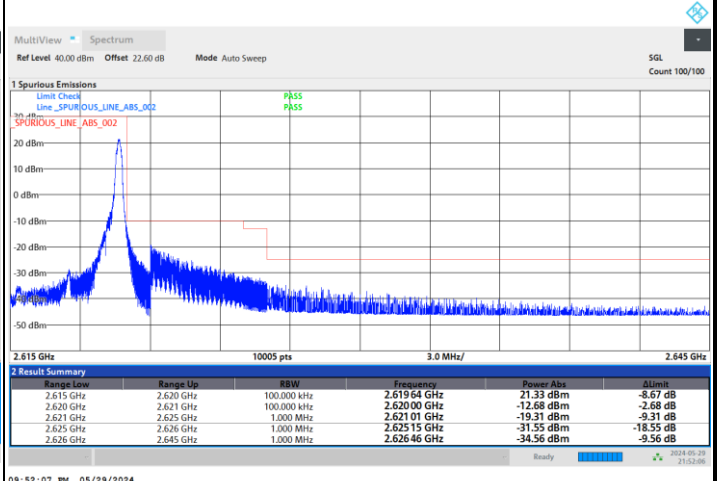
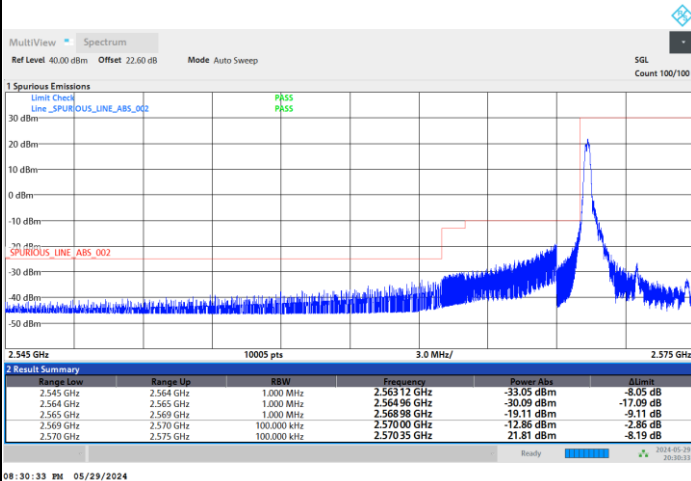




FR1 n38 / 5MHz / DFT-S OFDM / 16QAM

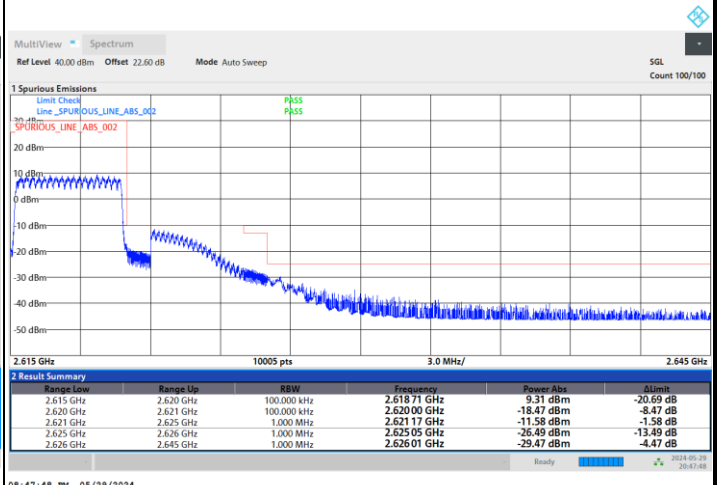
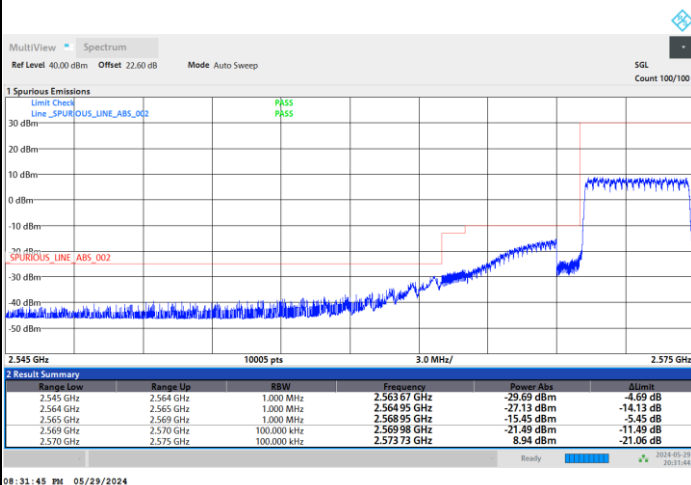
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

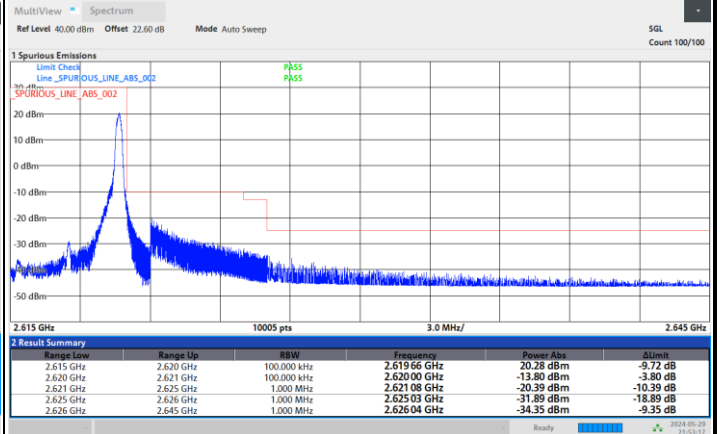
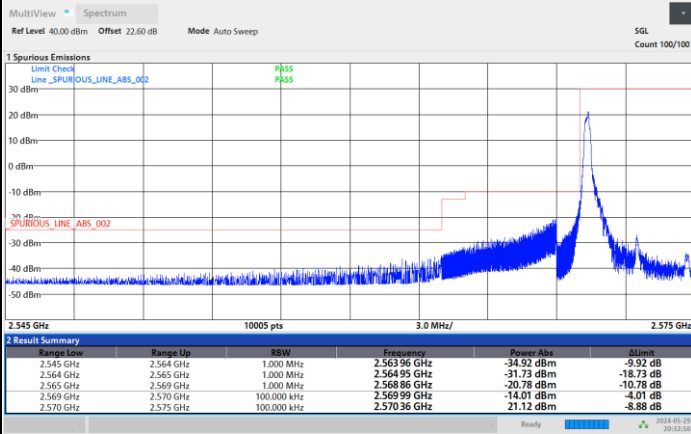




FR1 n38 / 5MHz / DFT-S OFDM / 64QAM

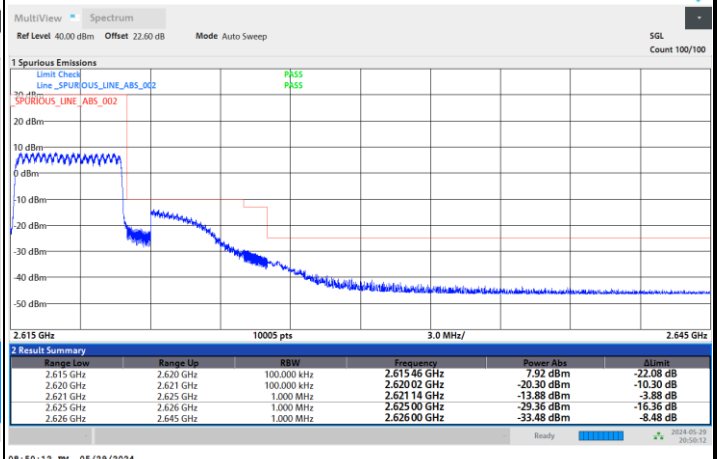
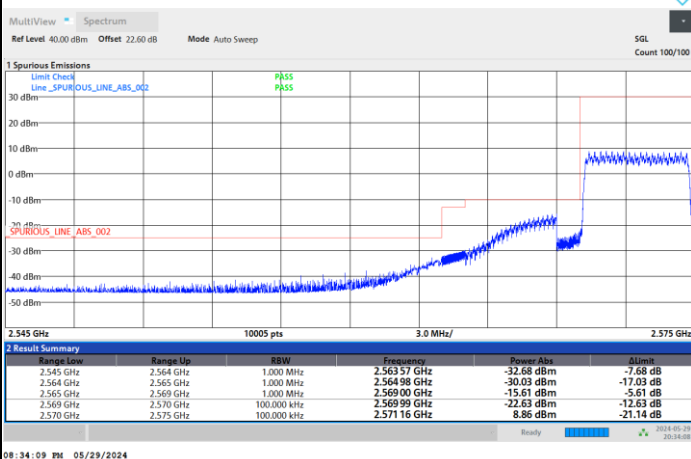
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

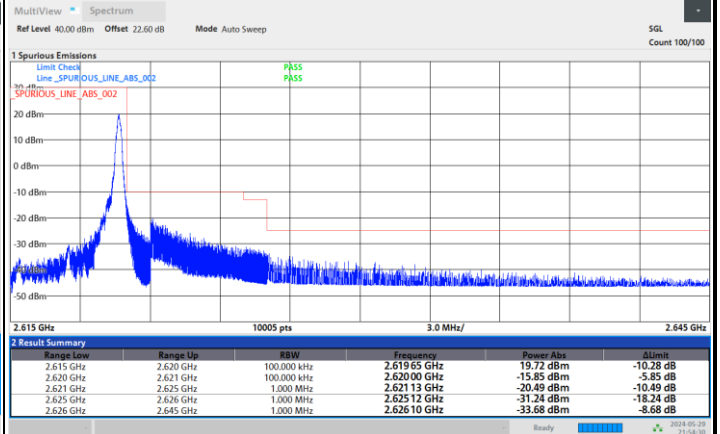
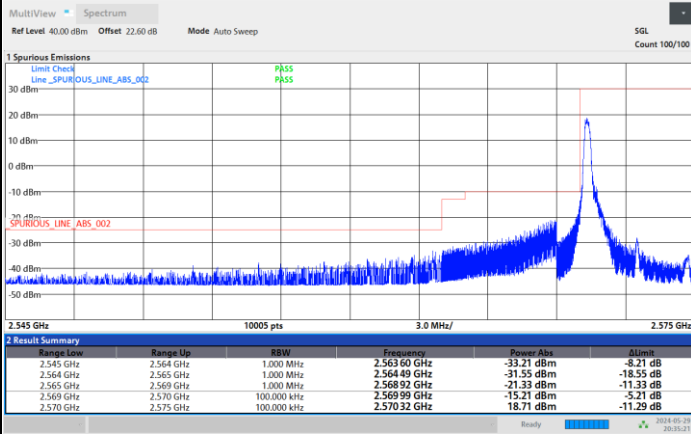




FR1 n38 / 5MHz / DFT-S OFDM / 256QAM

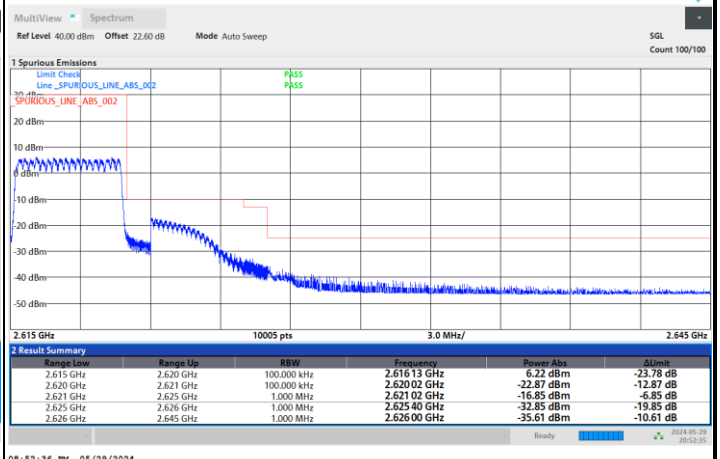
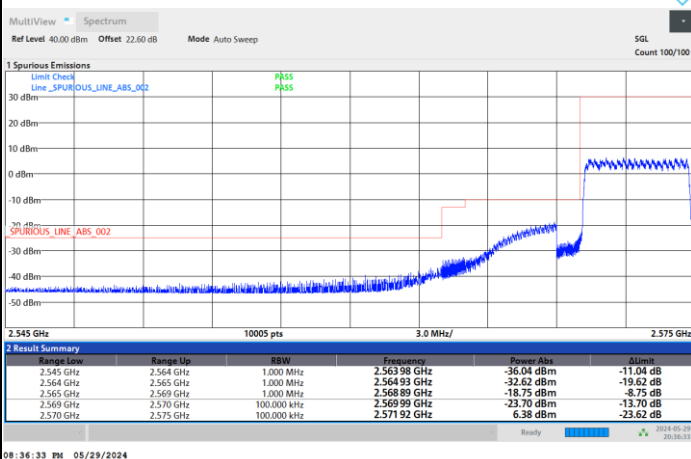
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

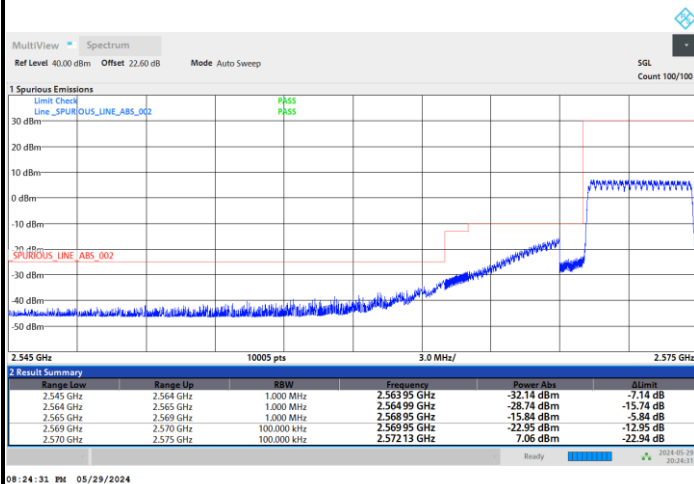
Highest Band Edge / Full RB



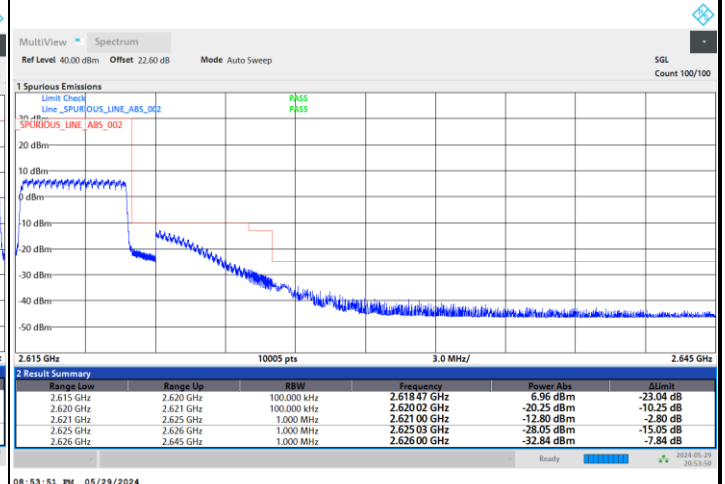


FR1 n38 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

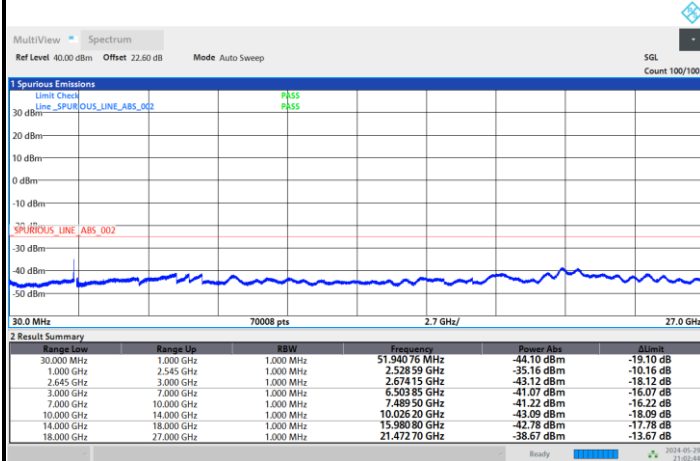




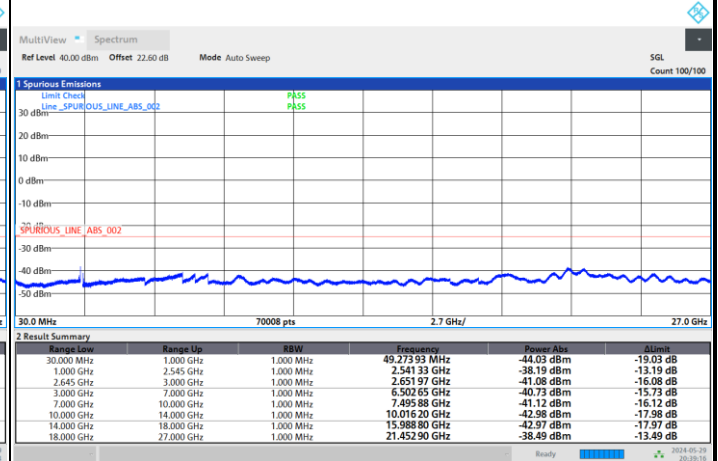
Conducted Spurious Emission

FR1 n38 / 5MHz / DFT-S OFDM / QPSK / 1RB1

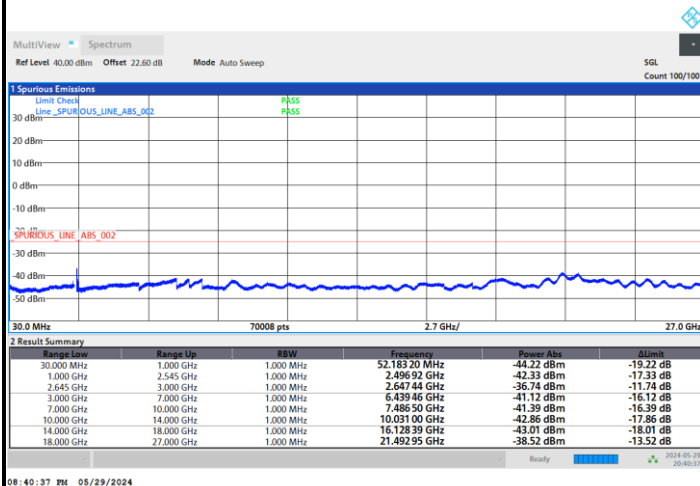
Lowest Channel



Middle Channel



Highest Channel



**FR1 n41**

<SISO Mode>

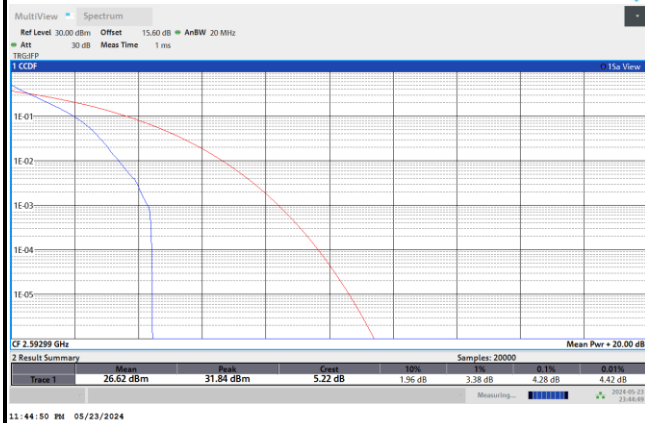
Peak-to-Average Ratio

Mode	FR1 n41 / 20MHz / 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	4.28	4.88	5.90	6.34	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.74				PASS

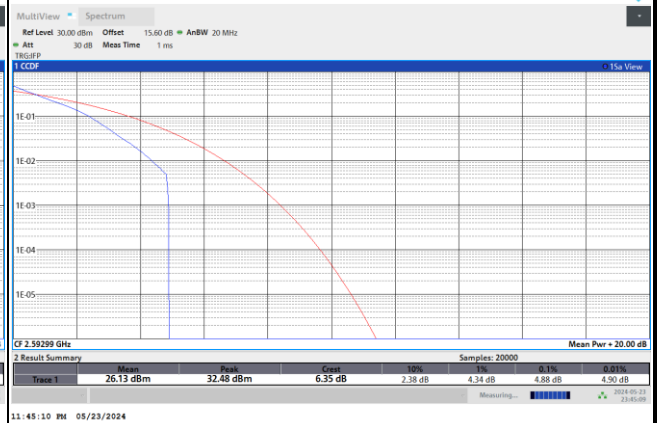


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

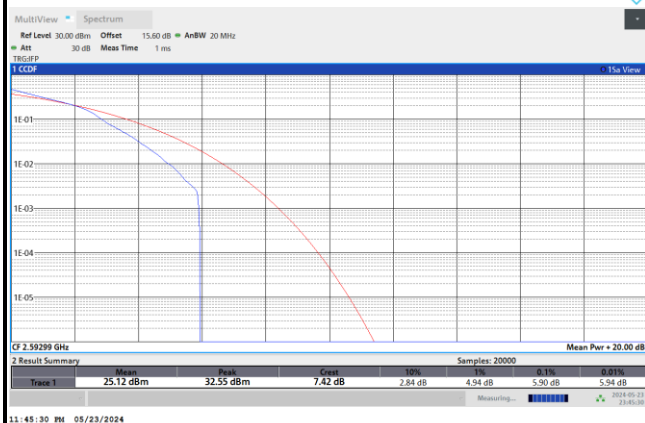
PI/2 BPSK



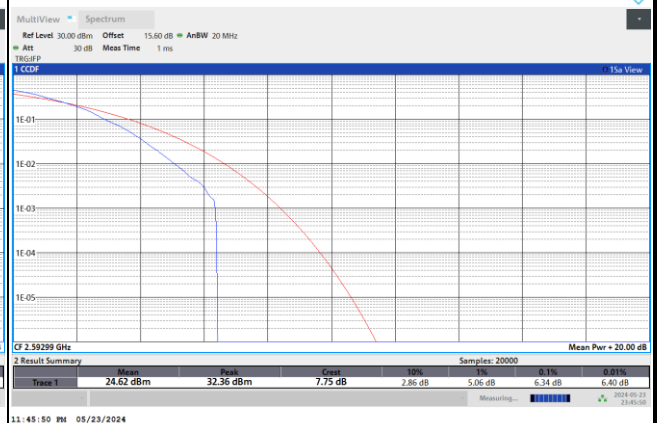
QPSK



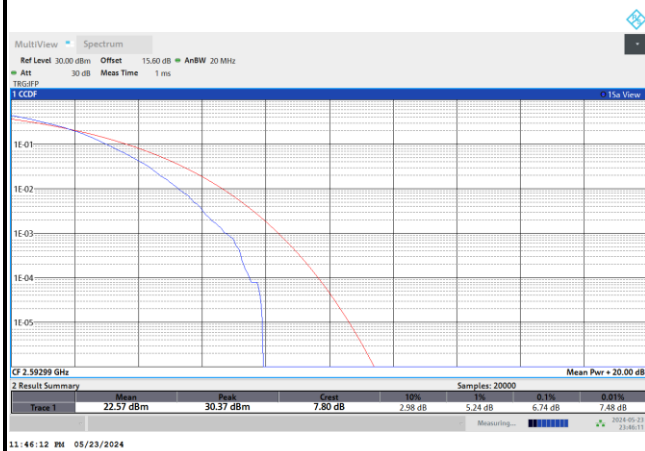
16QAM



64QAM



256QAM



**26dB Bandwidth**

Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	9.62	14.21	19.60	-	30.56	38.49	50.43	64.24
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	72.23	81.02	92.14	101.62				

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.59	9.90	15.01	15.13	20.35	20.12	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.80	9.84	14.92	14.89	20.03	20.05	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.92	31.51	41.06	42.74	51.36	50.69	67.15	63.60
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	30.74	30.94	40.78	43.23	50.73	50.94	64.67	63.08
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	77.55	75.08	81.82	81.63	93.40	93.17	107.02	103.00
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	76.10	74.76	83.20	81.49	92.57	93.62	104.00	108.86