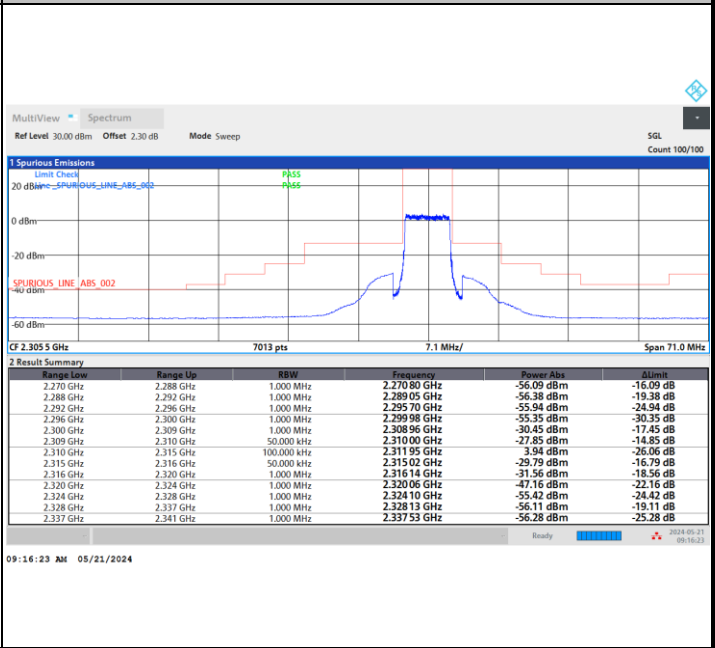
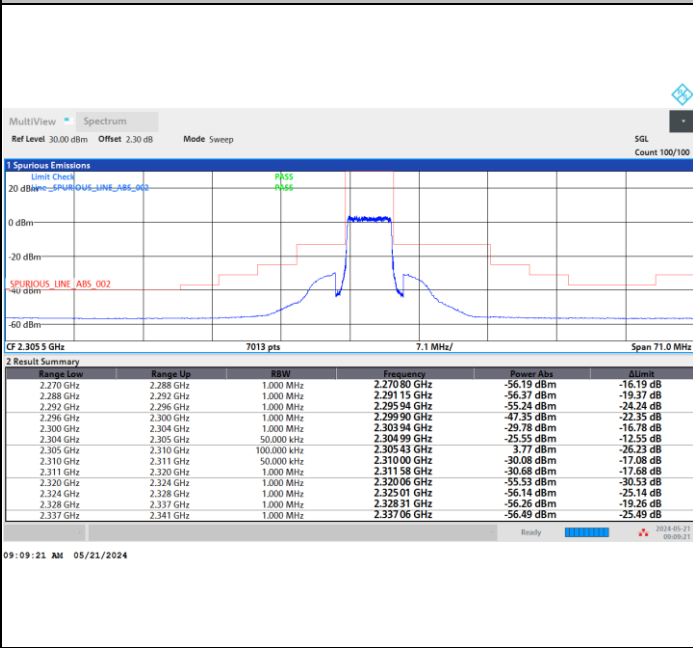




Lowest Band Edge / Full RB

Highest Band Edge / Full RB

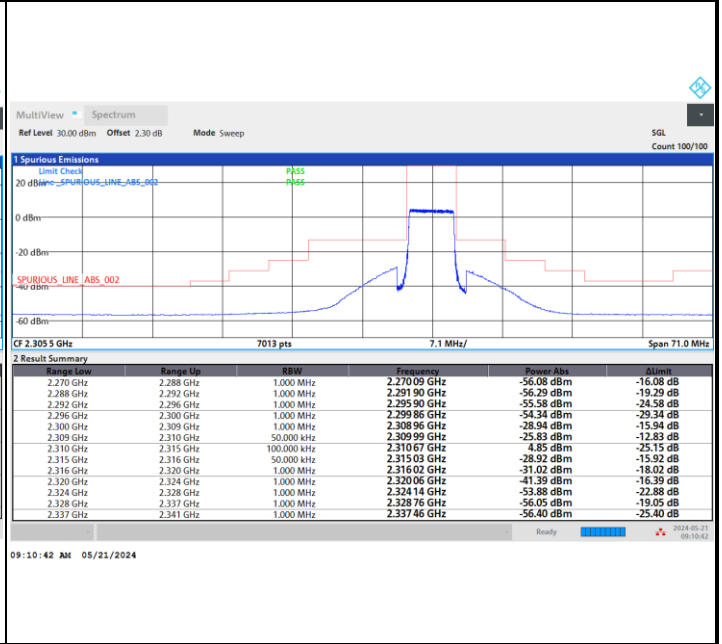
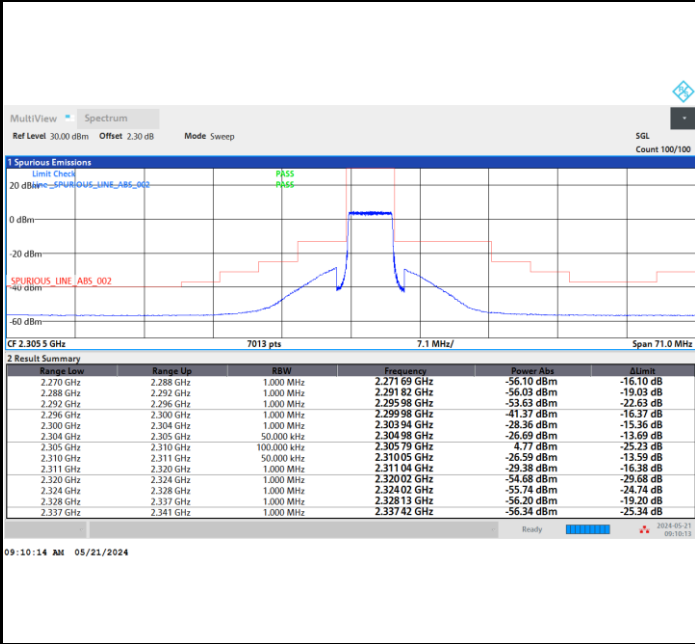




FR1 n30 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

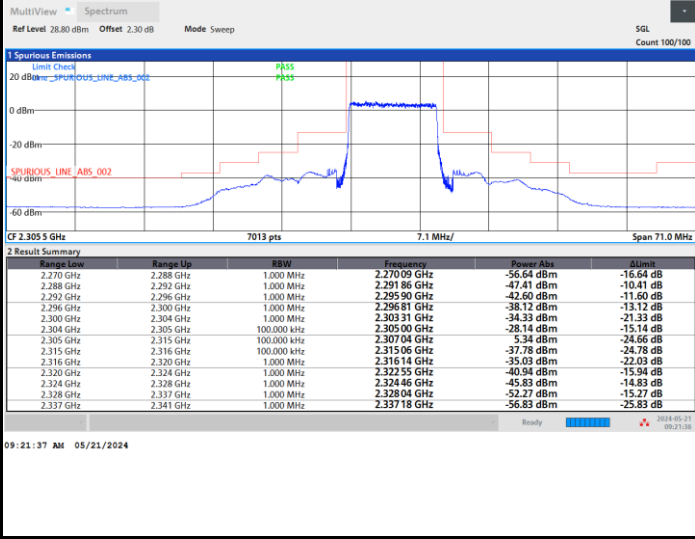
Highest Band Edge





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

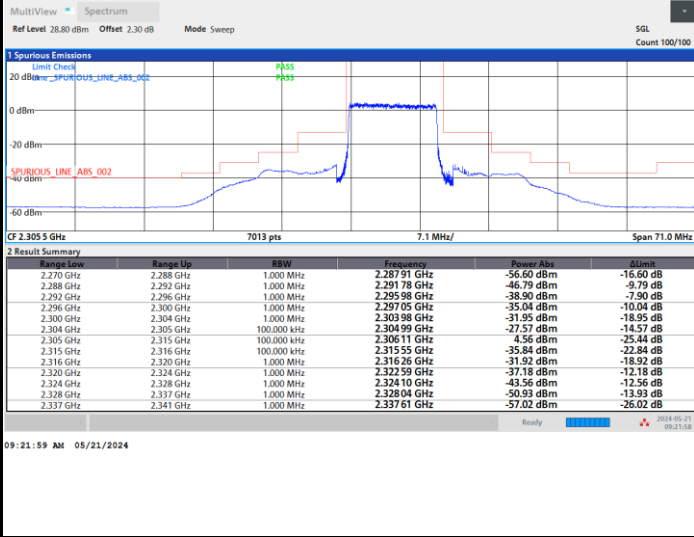
Middle Band Edge / Full RB





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

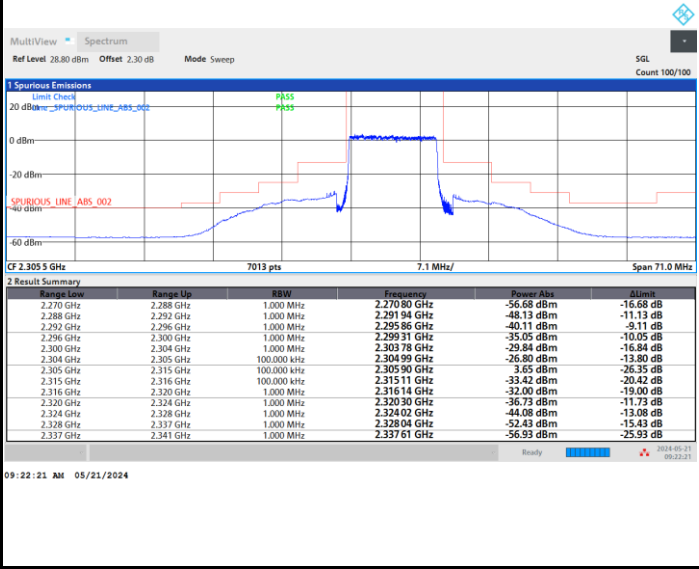
Middle Band Edge / Full RB





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

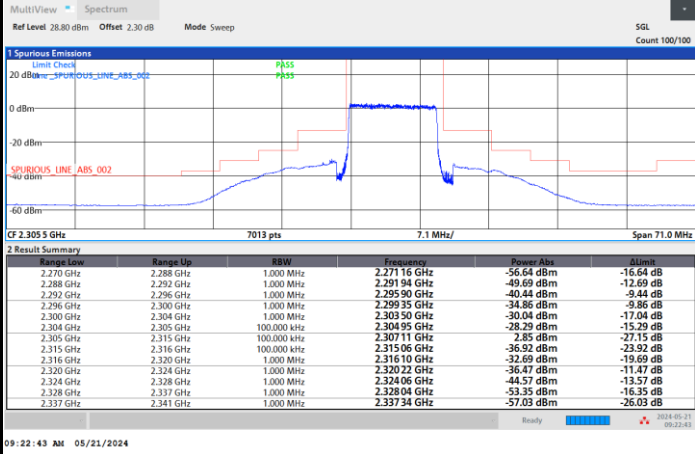
Middle Band Edge / Full RB





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

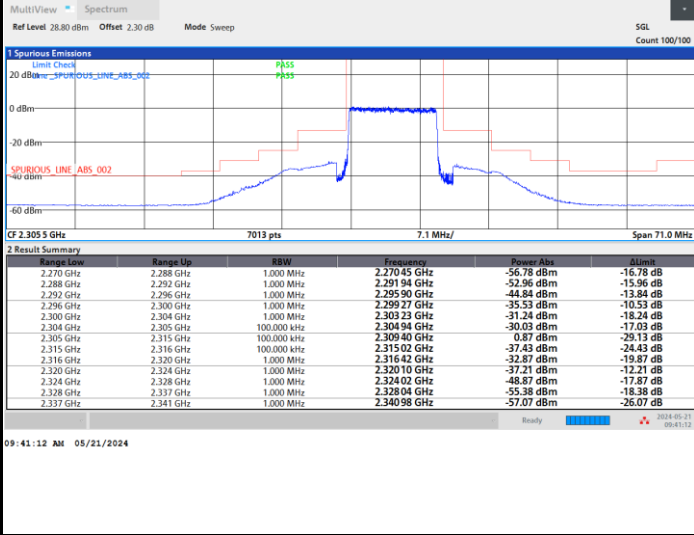
Middle Band Edge / Full RB

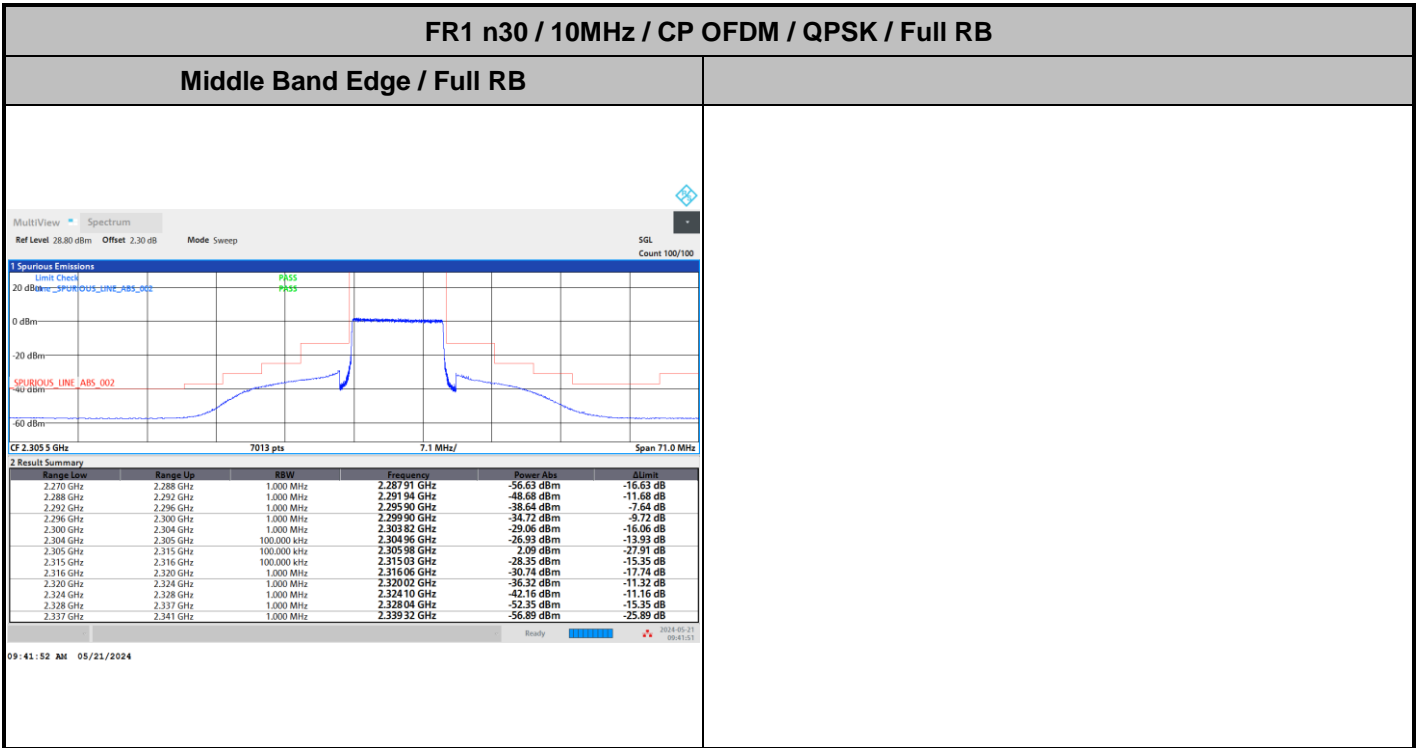




FR1 n30 / 10MHz / DFT-s-OFDM / 256QAM

Middle Band Edge / Full RB



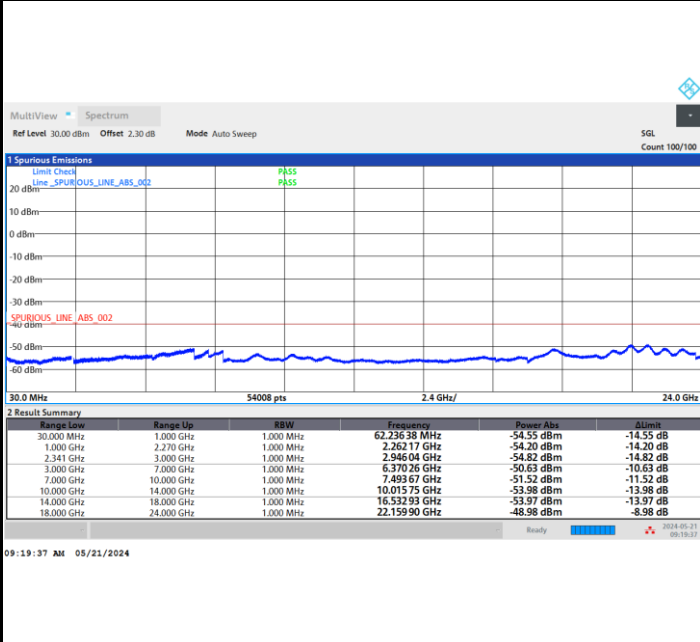




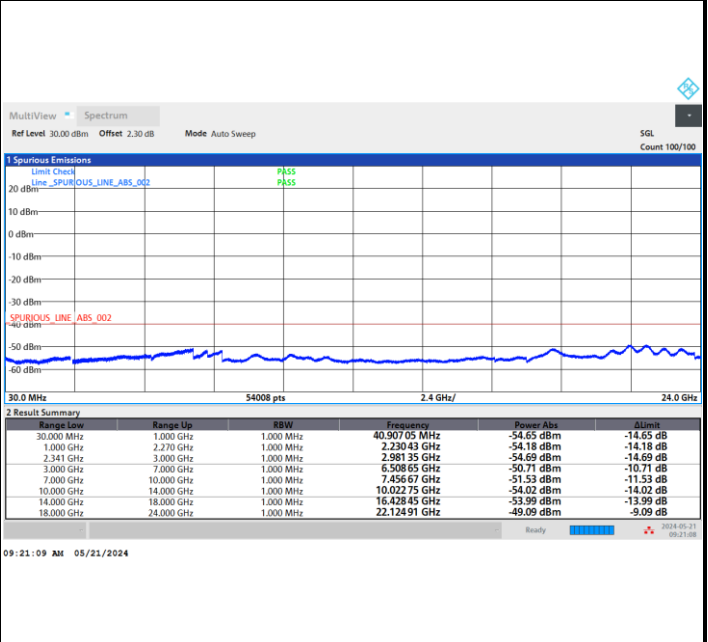
Conducted Spurious Emission

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

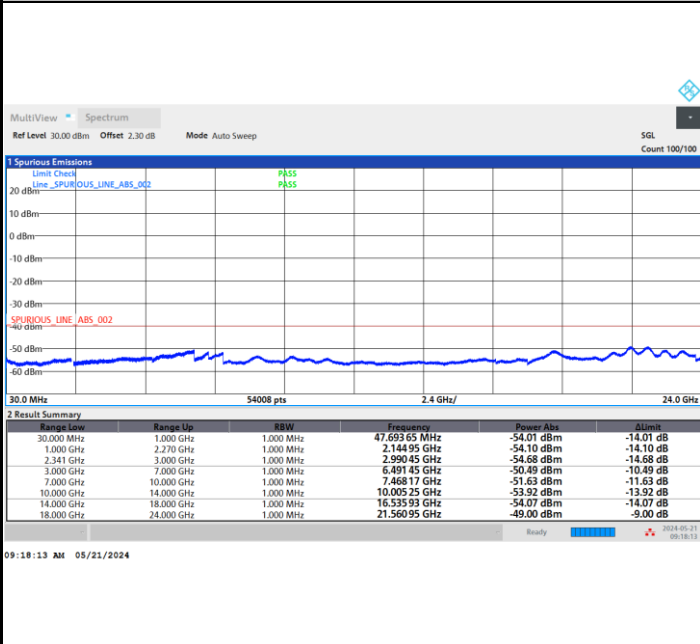
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n30 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0015	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

- 1. Normal Voltage = 3.86 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n38

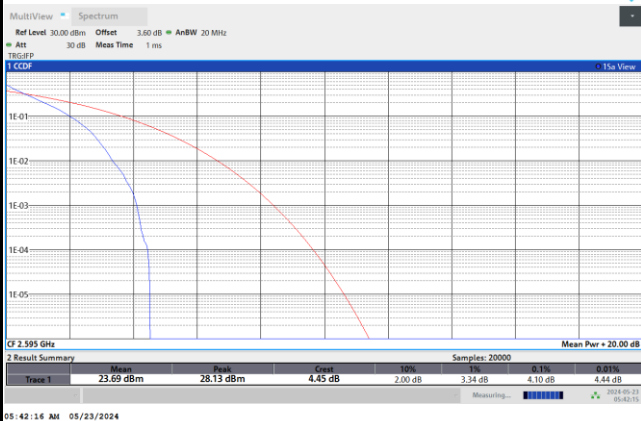
Peak-to-Average Ratio

Mode	FR1 n38 / 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	4.10	4.70	5.64	6.08	PASS
Mode	FR1 n38 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.46				PASS

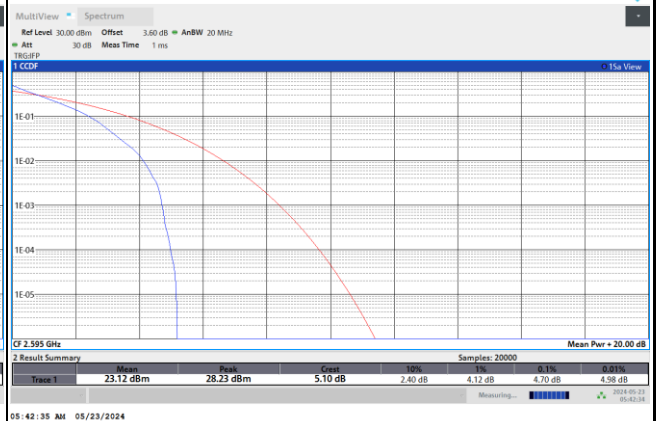


FR1 n38 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

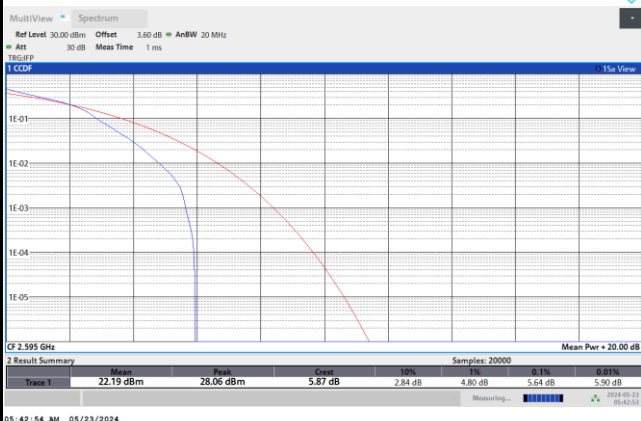
PI/2 BPSK



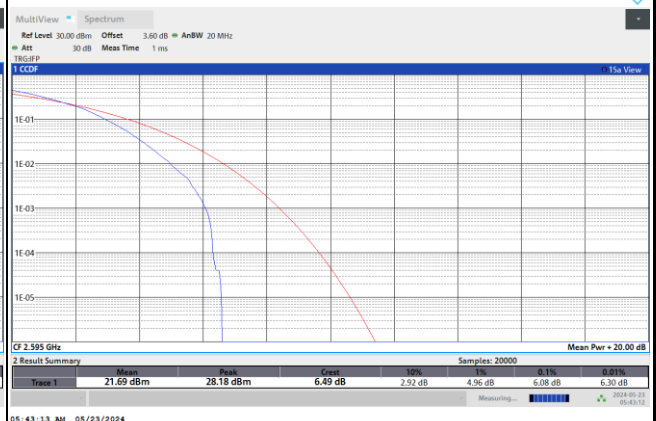
QPSK



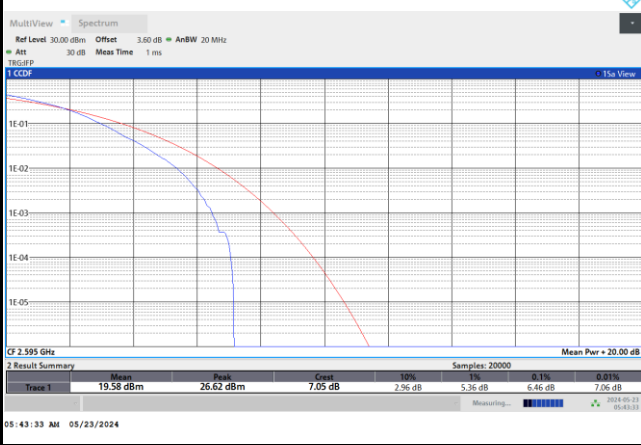
16QAM



64QAM



256QAM





26dB Bandwidth

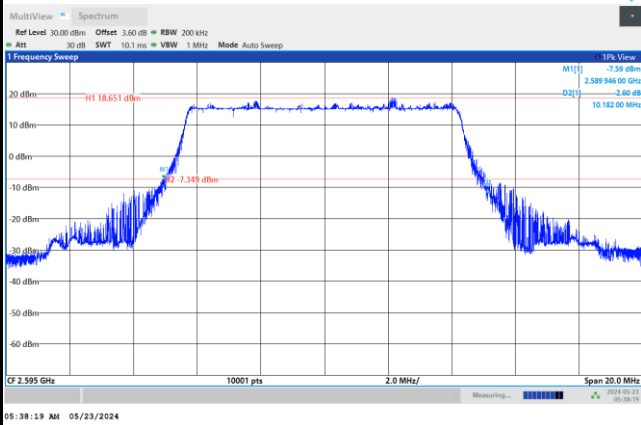
Mode	FR1 n38 : 26dB BW(MHz) / DFT-S OFDM				
BW	10MHz	20MHz	30MHz	40MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	10.18	20.22	31.58	39.34	

Mode	FR1 n38 : 26dB BW(MHz) / CP OFDM									
BW	10MHz		20MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	10.31	11.23	22.53	22.61	31.45	32.21	41.27	42.46		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	11.39	10.09	21.06	20.39	33.07	31.58	41.47	42.08		



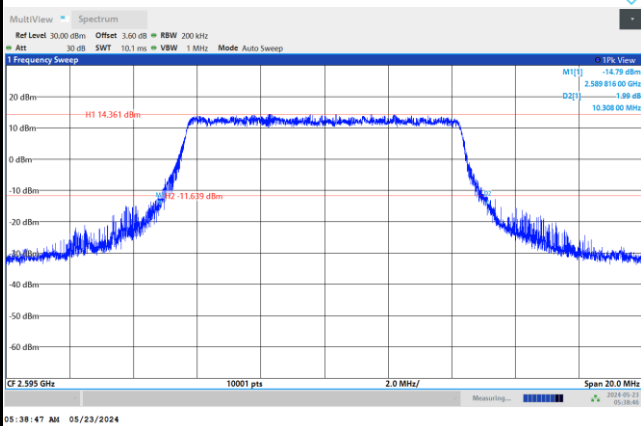
FR1 n38 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

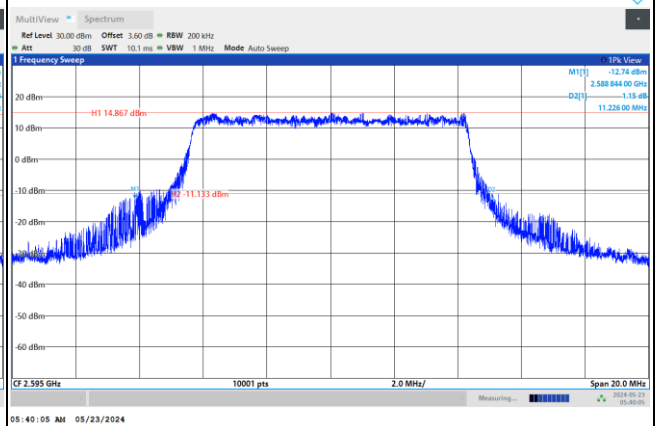


FR1 n38 / 10MHz / CP OFDM / Middle Channel / Full RB

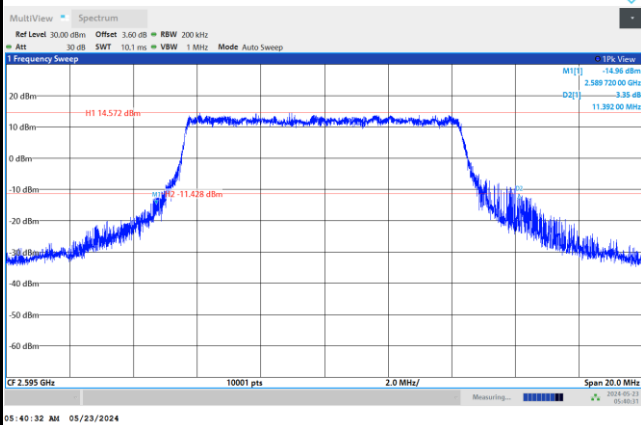
QPSK



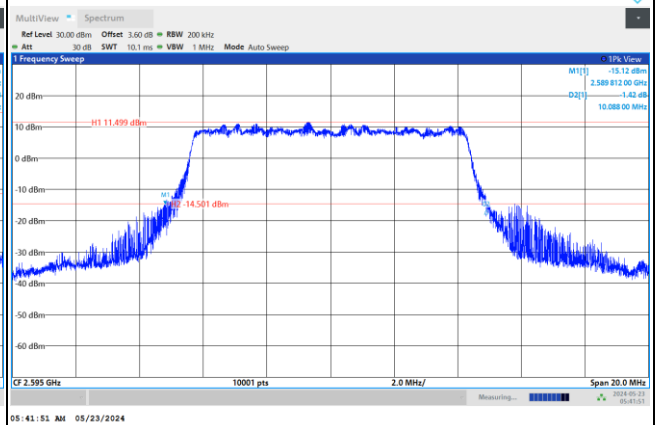
16QAM



64QAM



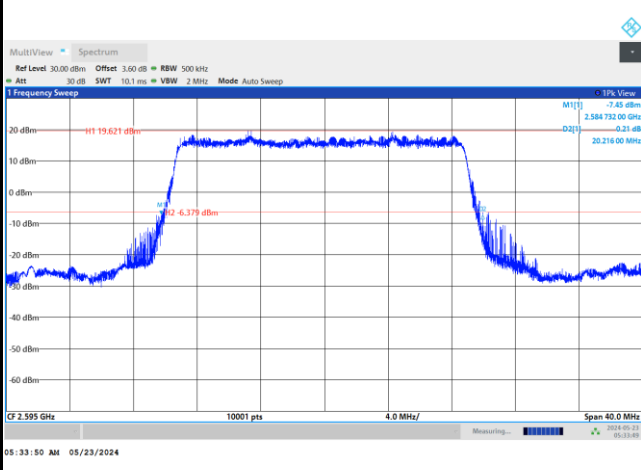
256QAM





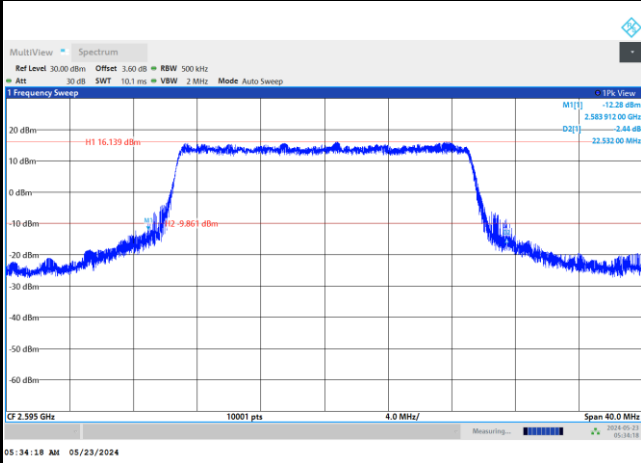
FR1 n38 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

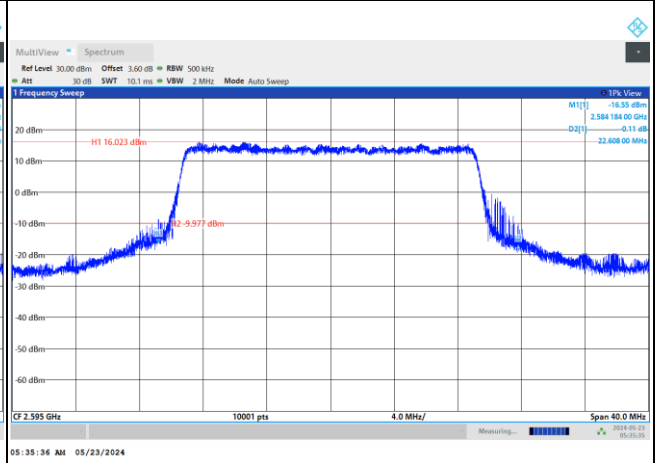


FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

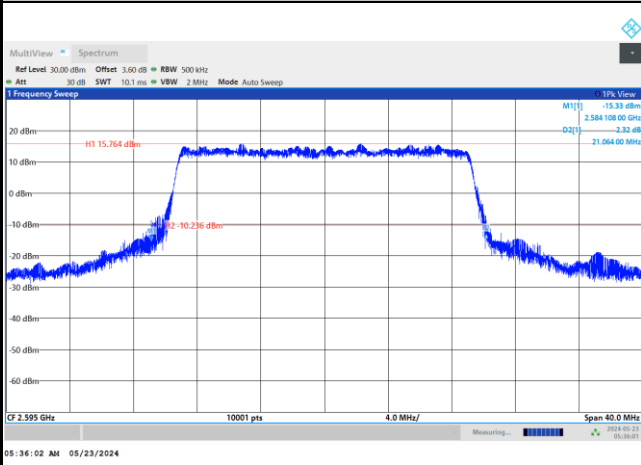
QPSK



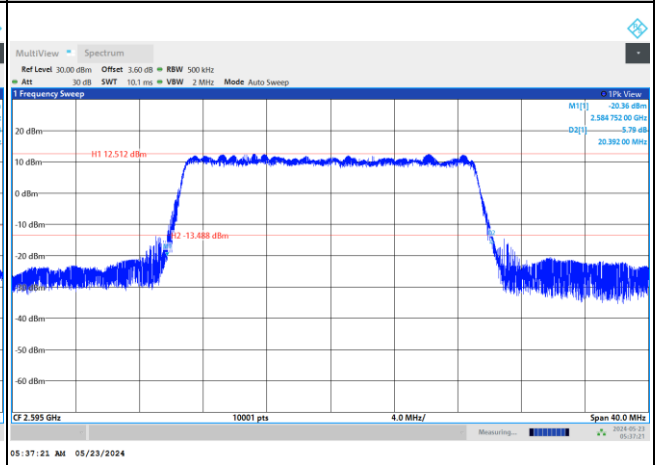
16QAM



64QAM



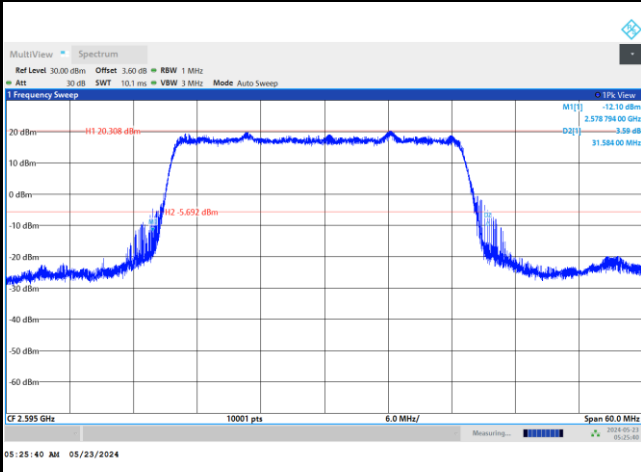
256QAM





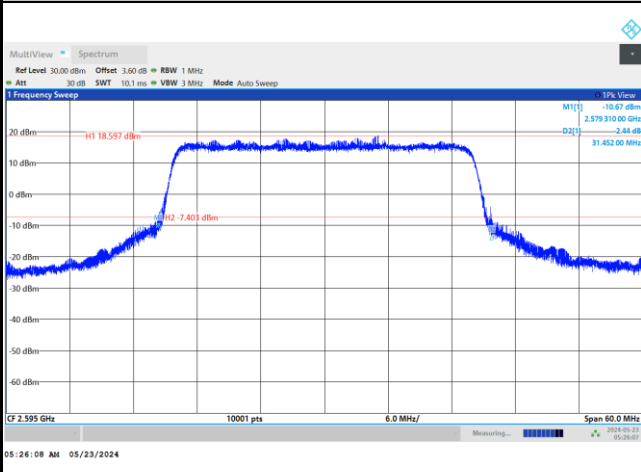
FR1 n38 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

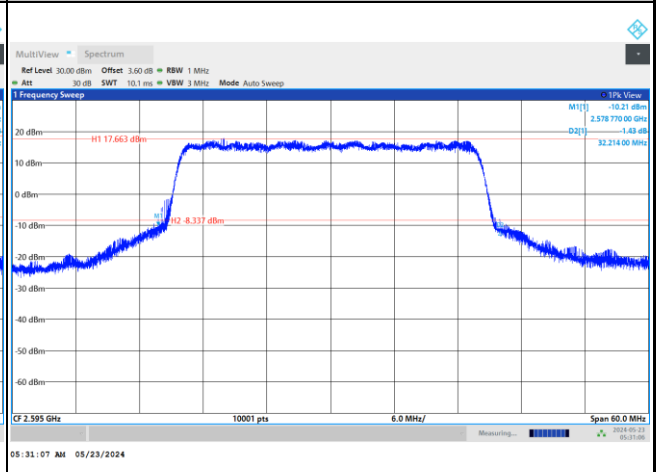


FR1 n38 / 30MHz / CP OFDM / Middle Channel / Full RB

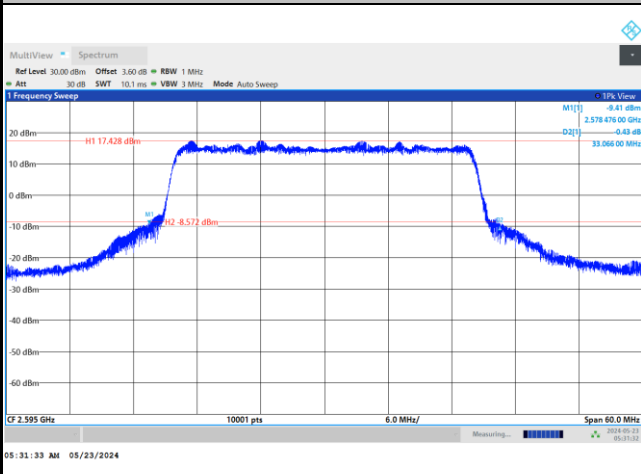
QPSK



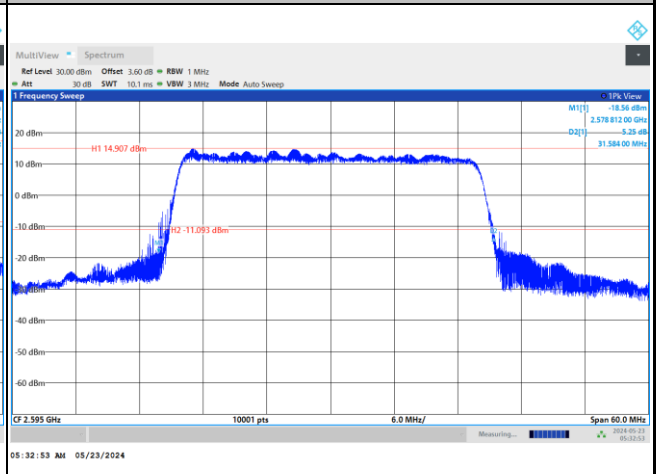
16QAM



64QAM



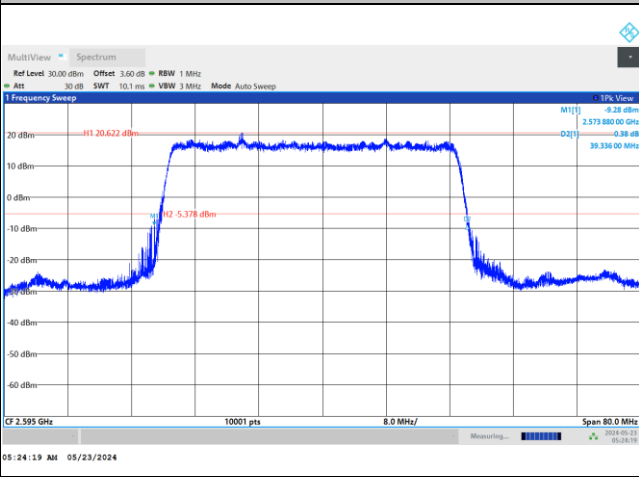
256QAM





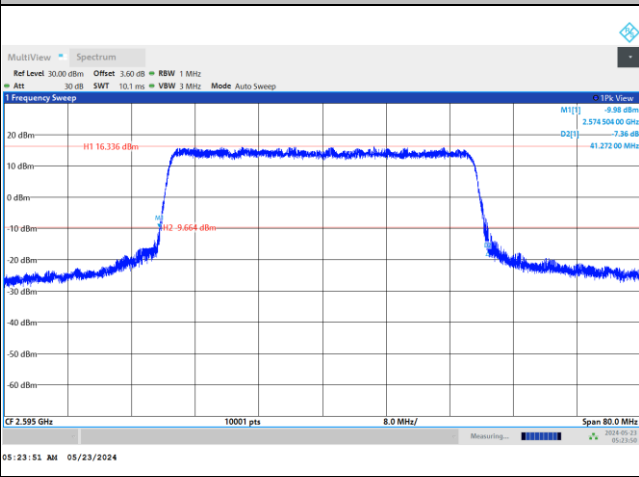
FR1 n38 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

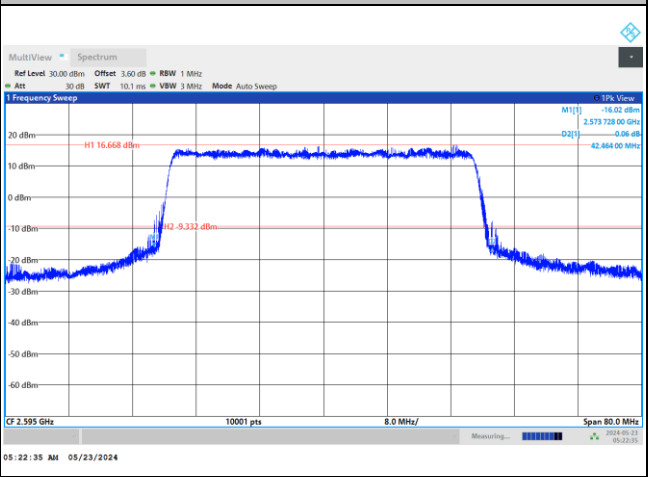


FR1 n38 / 40MHz / CP OFDM / Middle Channel / Full RB

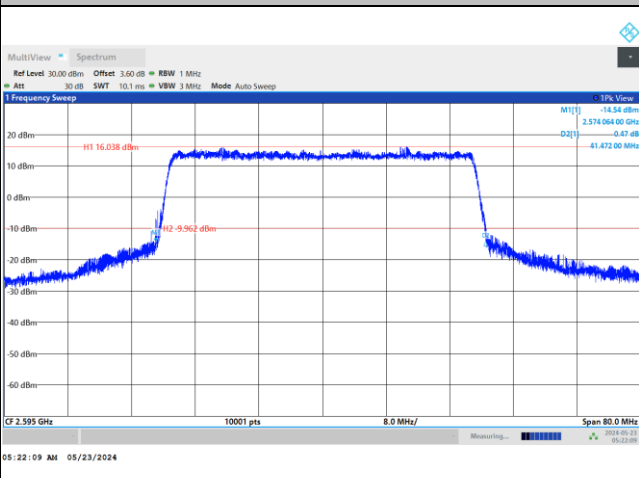
QPSK



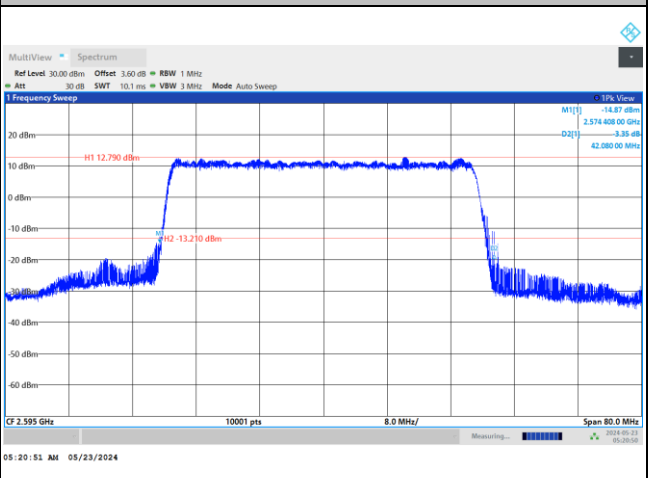
16QAM



64QAM



256QAM





Occupied Bandwidth

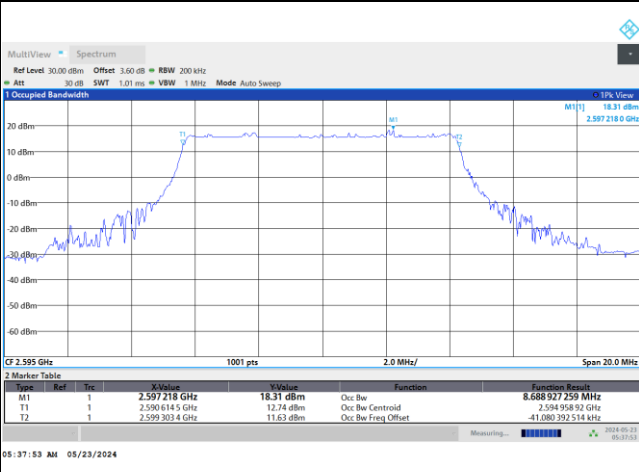
Mode	FR1 n38 : OB BW(MHz) / DFT-S OFDM			
BW	10MHz	20MHz	30MHz	40MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	8.68	18.05	27.26	36.11

Mode	FR1 n38 : OB BW(MHz) / CP OFDM									
BW	10MHz		20MHz		30MHz		40MHz			
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	8.69	8.68	18.45	18.45	28.20	28.22	38.07	38.18		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	8.69	8.68	18.37	18.36	28.28	28.21	38.22	38.24		



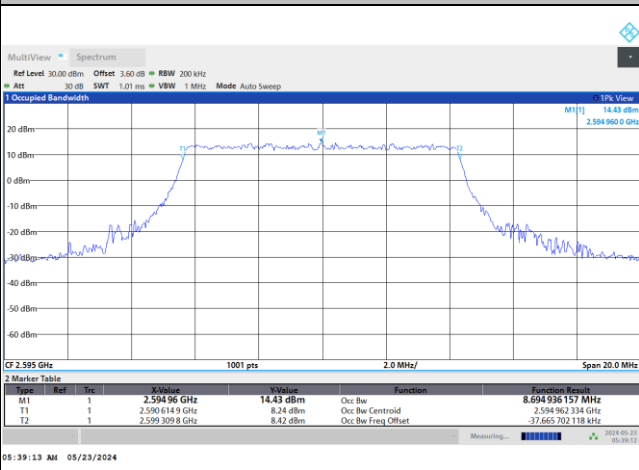
FR1 n38 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

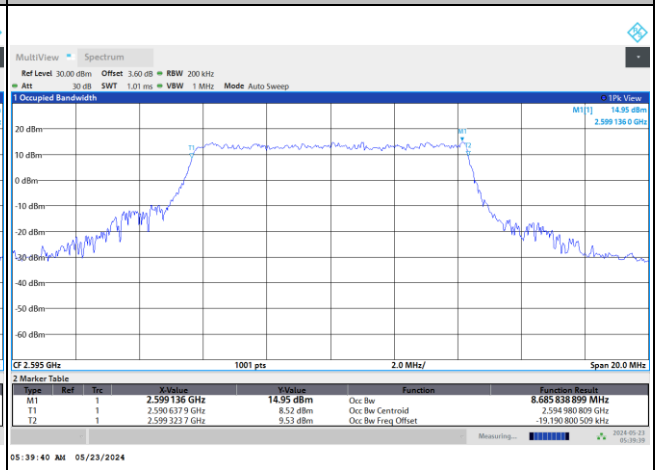


FR1 n38 / 10MHz / CP OFDM / Middle Channel / Full RB

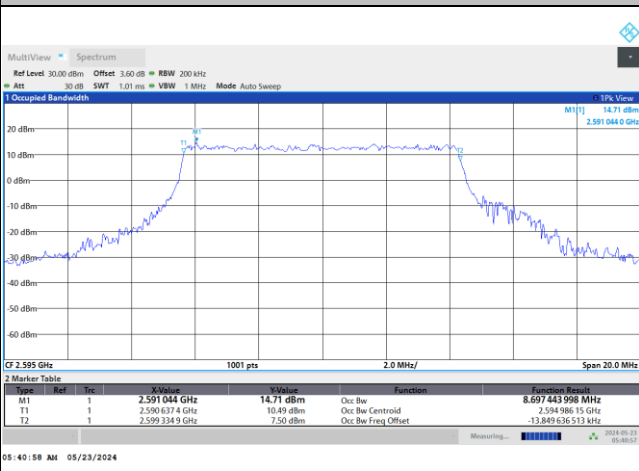
QPSK



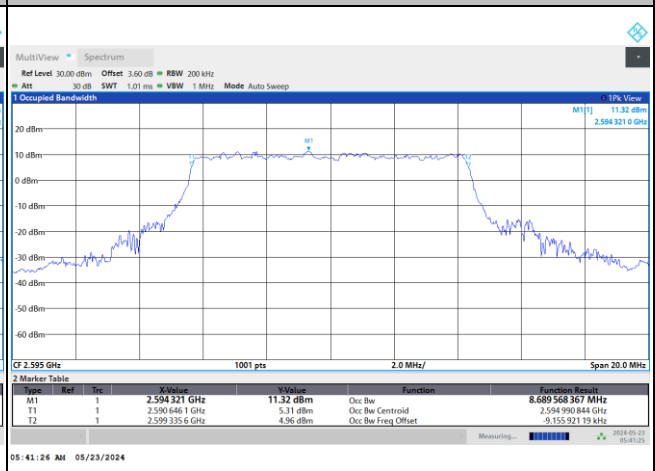
16QAM



64QAM



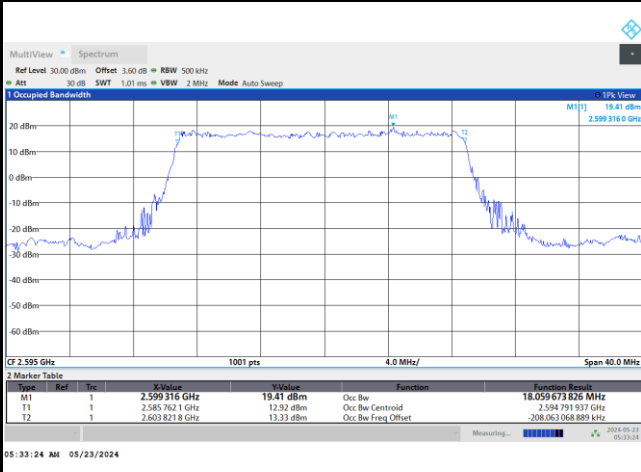
256QAM





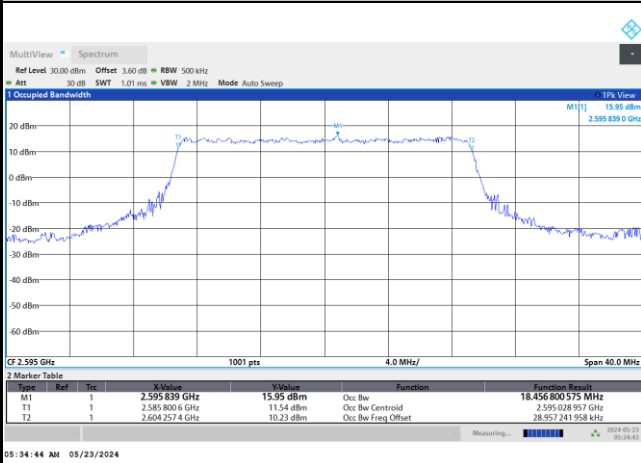
FR1 n38 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

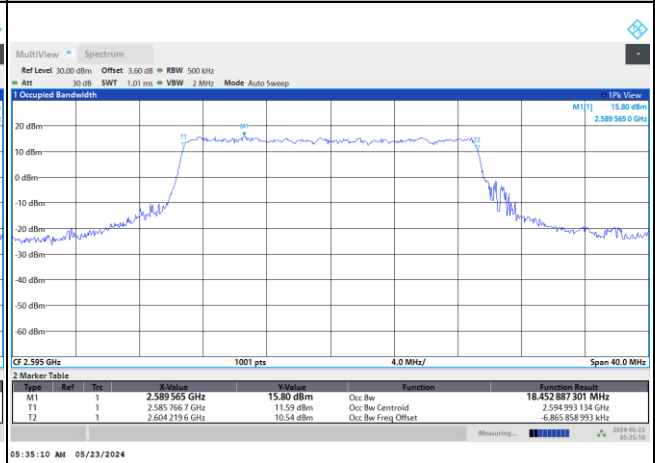


FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

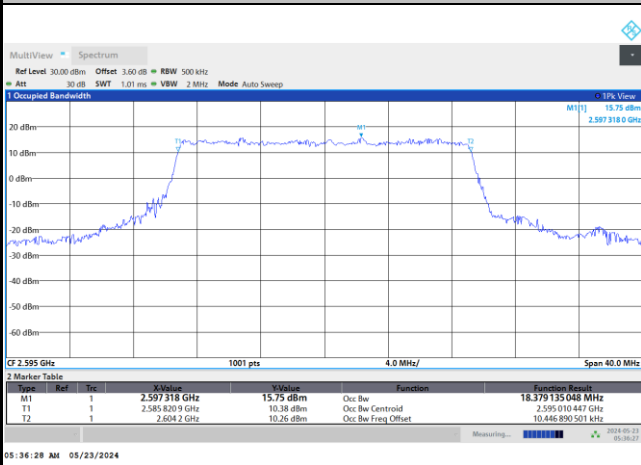
QPSK



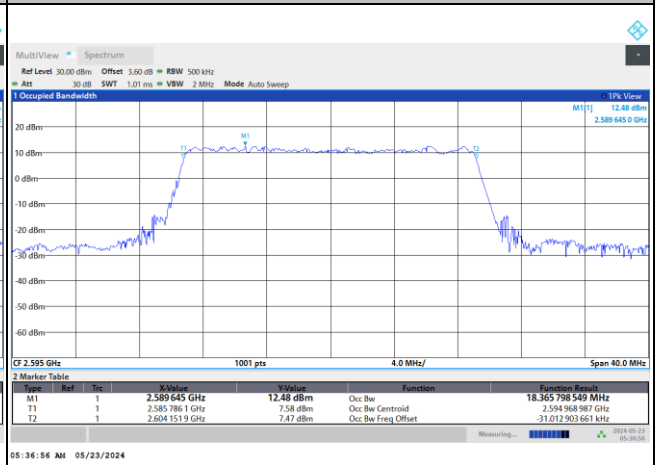
16QAM



64QAM



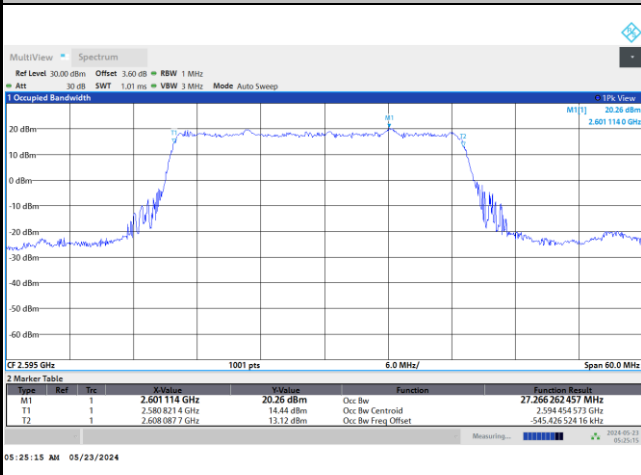
256QAM





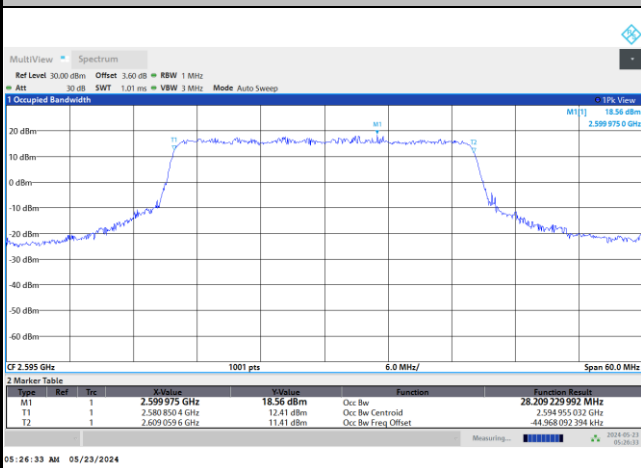
FR1 n38 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

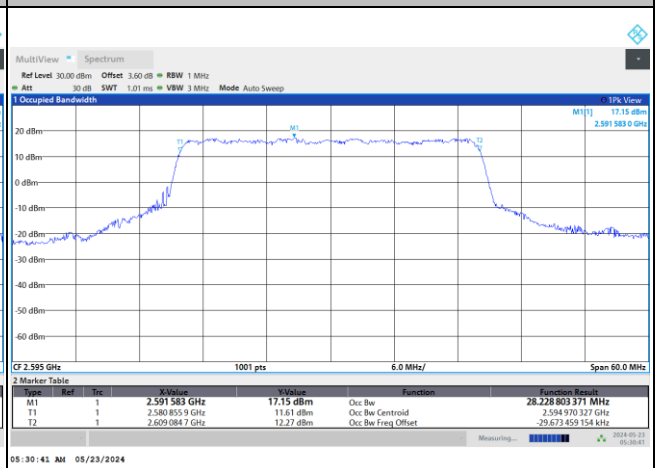


FR1 n38 / 30MHz / CP OFDM / Middle Channel / Full RB

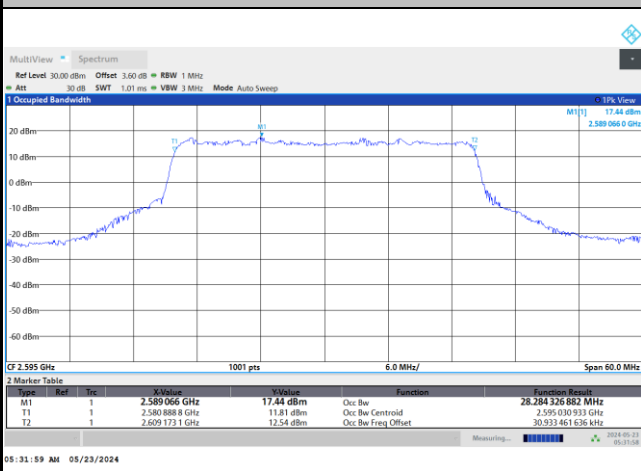
QPSK



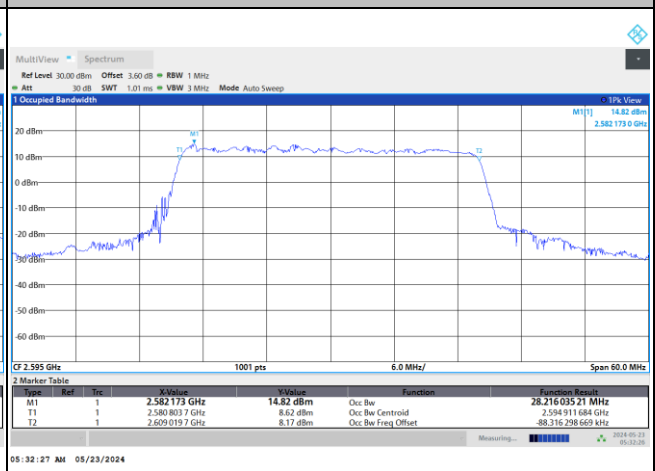
16QAM



64QAM



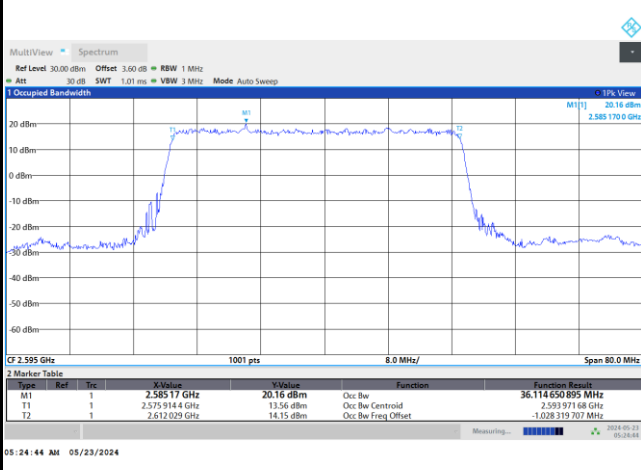
256QAM





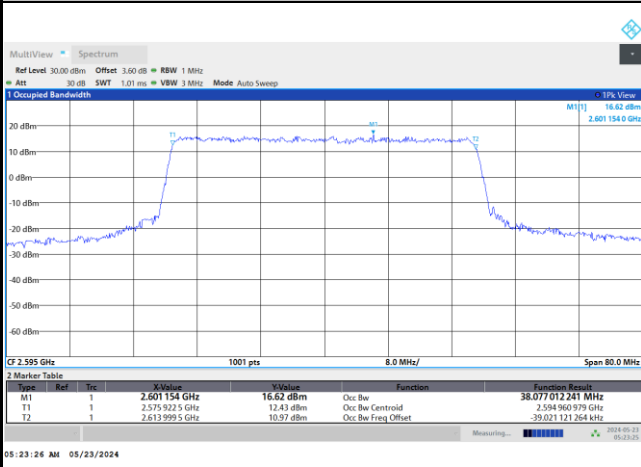
FR1 n38 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

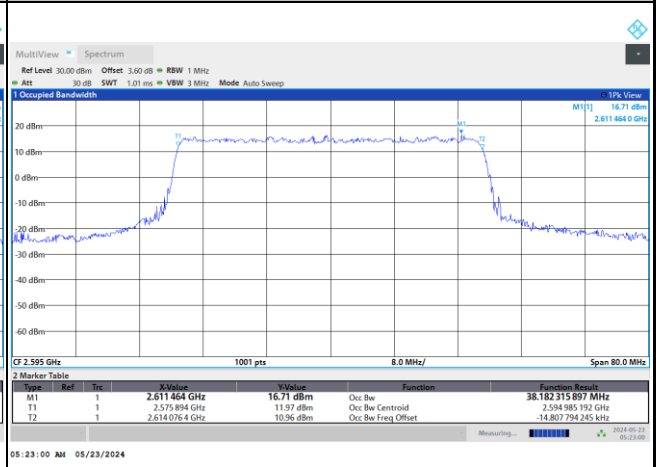


FR1 n38 / 40MHz / CP OFDM / Middle Channel / Full RB

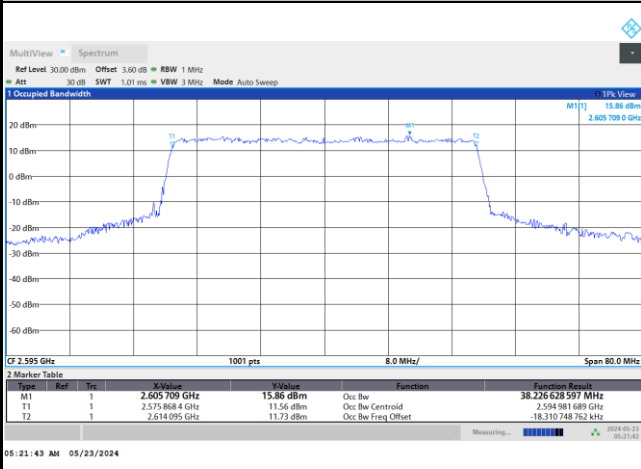
QPSK



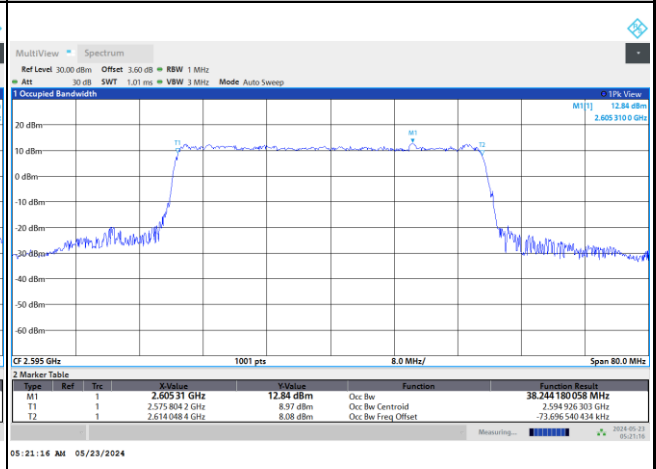
16QAM



64QAM



256QAM



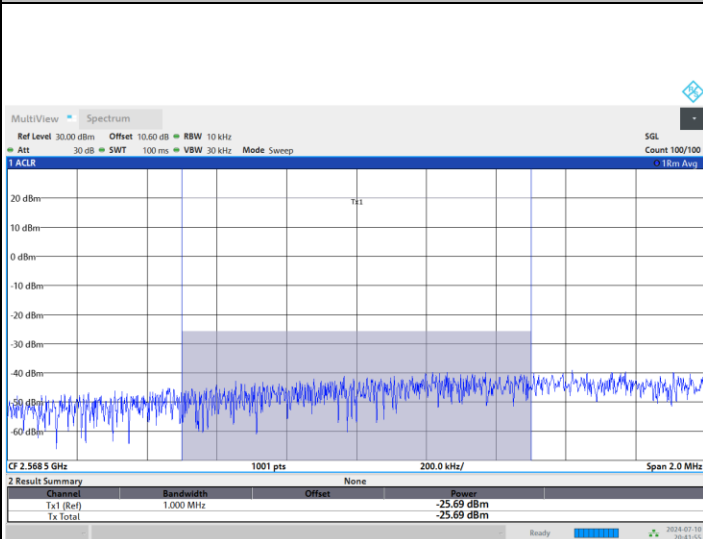
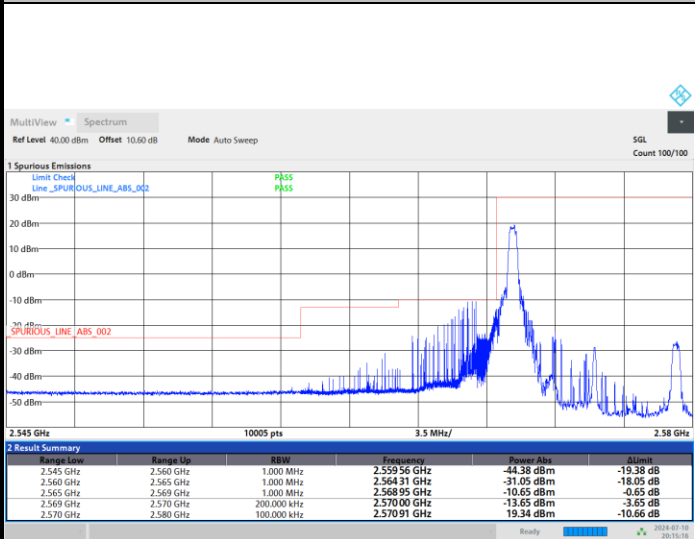


Conducted Band Edge

FR1 n38 / 10MHz / DFT-S OFDM / PI/2 BPSK

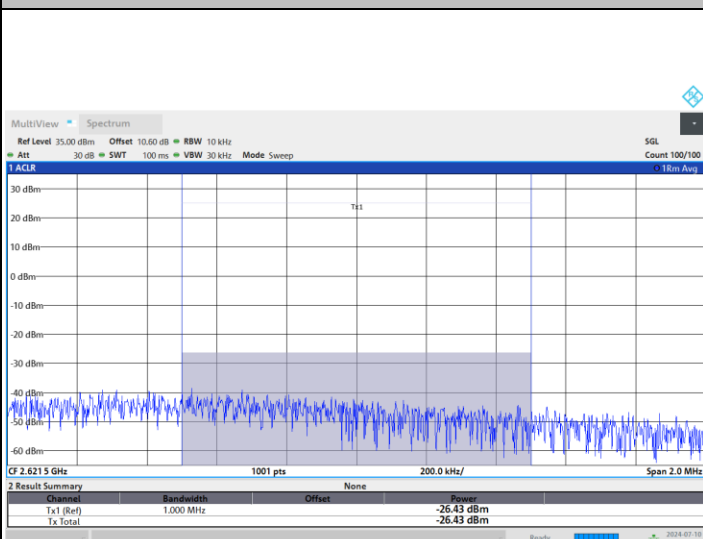
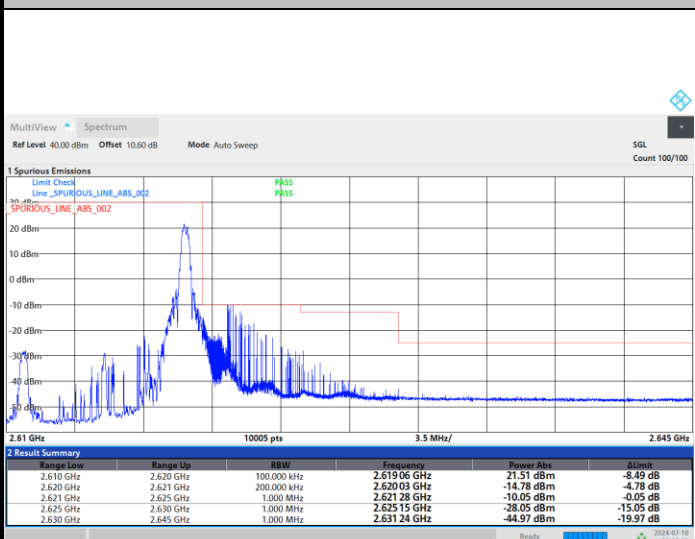
Lowest Band Edge / 1RB0

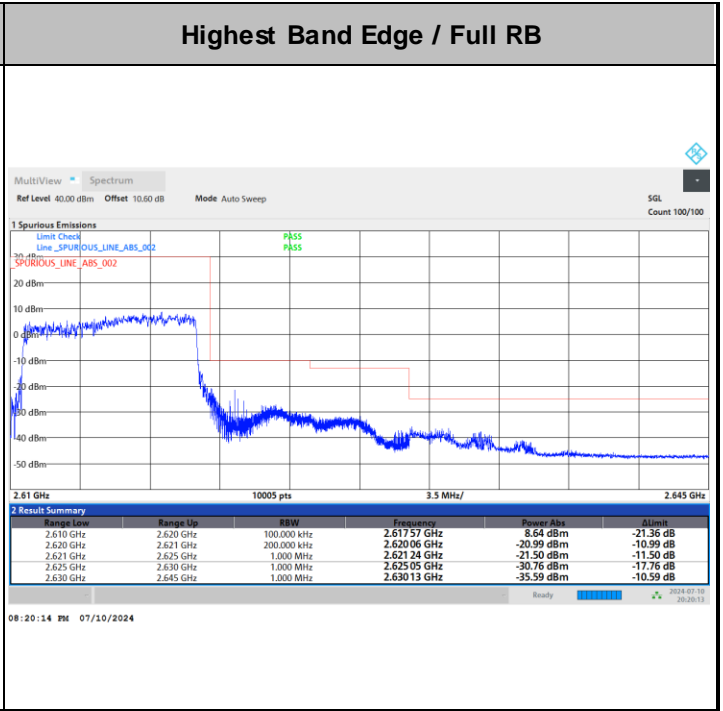
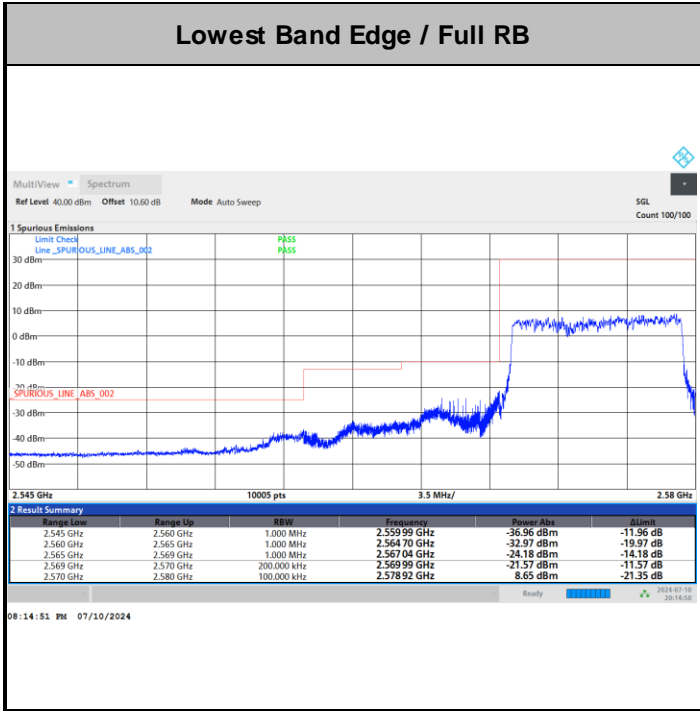
Power Limit -10dBm -25.69 dBm Pass



Highest Band Edge / 1RBmax

Power Limit -10dBm -26.43dBm Pass

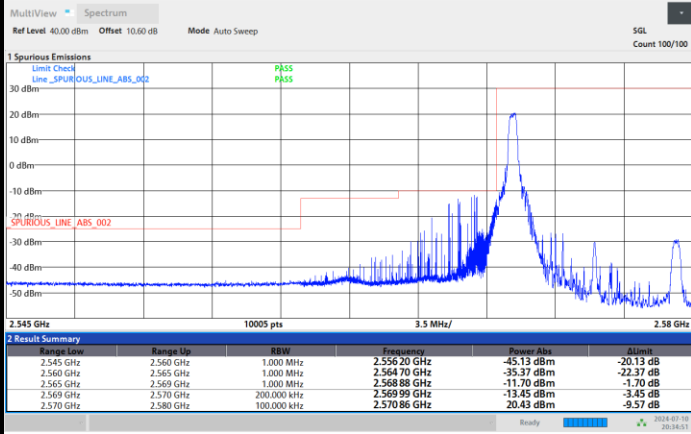






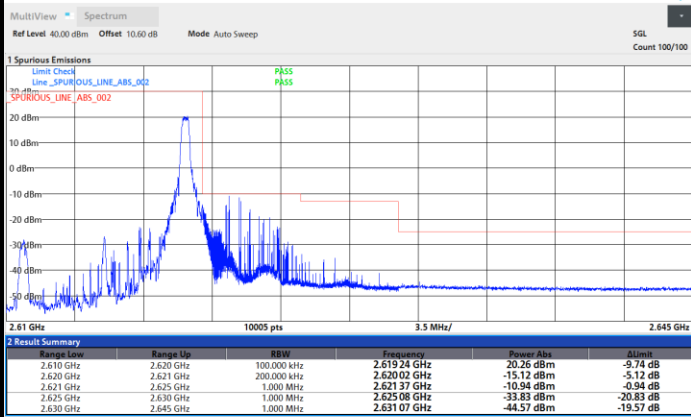
FR1 n38 / 10MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



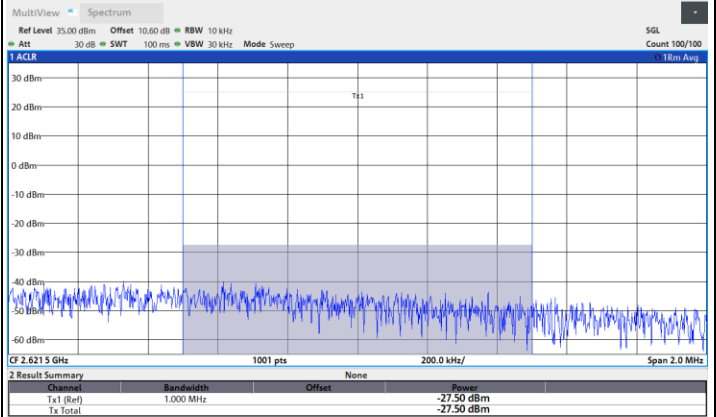
08:34:52 PM 07/10/2024

Highest Band Edge / 1RBmax

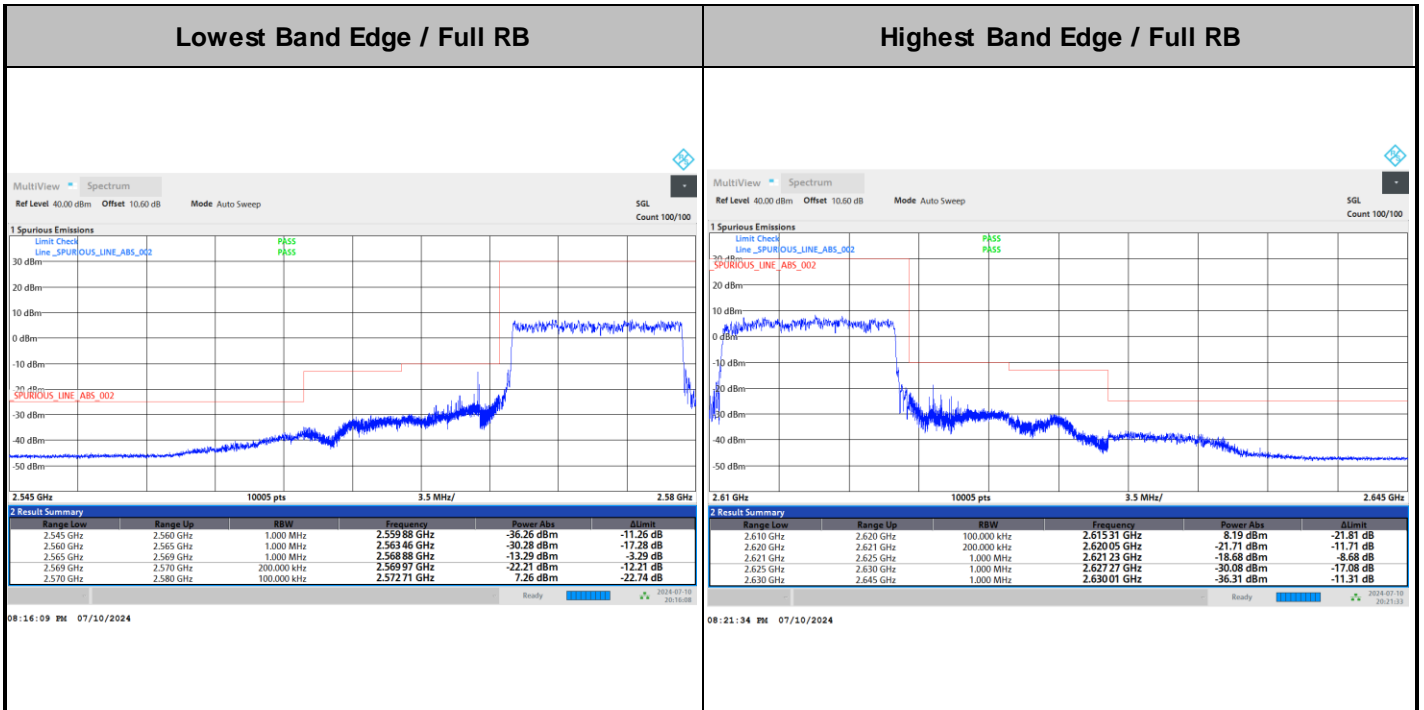


08:27:14 PM 07/10/2024

Power Limit -10dBm -27.50 dBm Pass



08:50:33 PM 07/10/2024

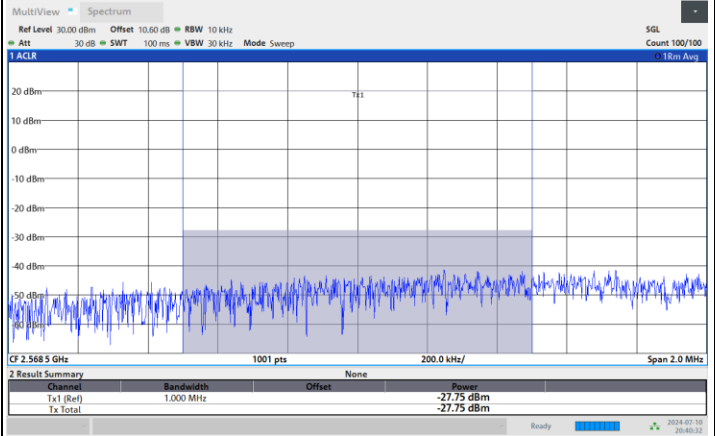
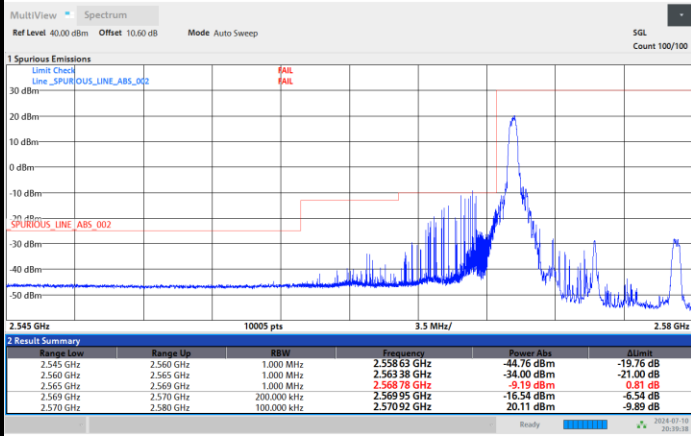




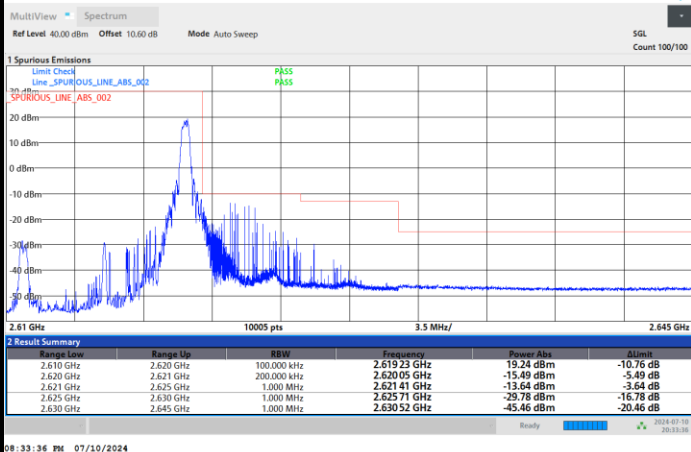
FR1 n38 / 10MHz / DFT-S OFDM / 16QAM

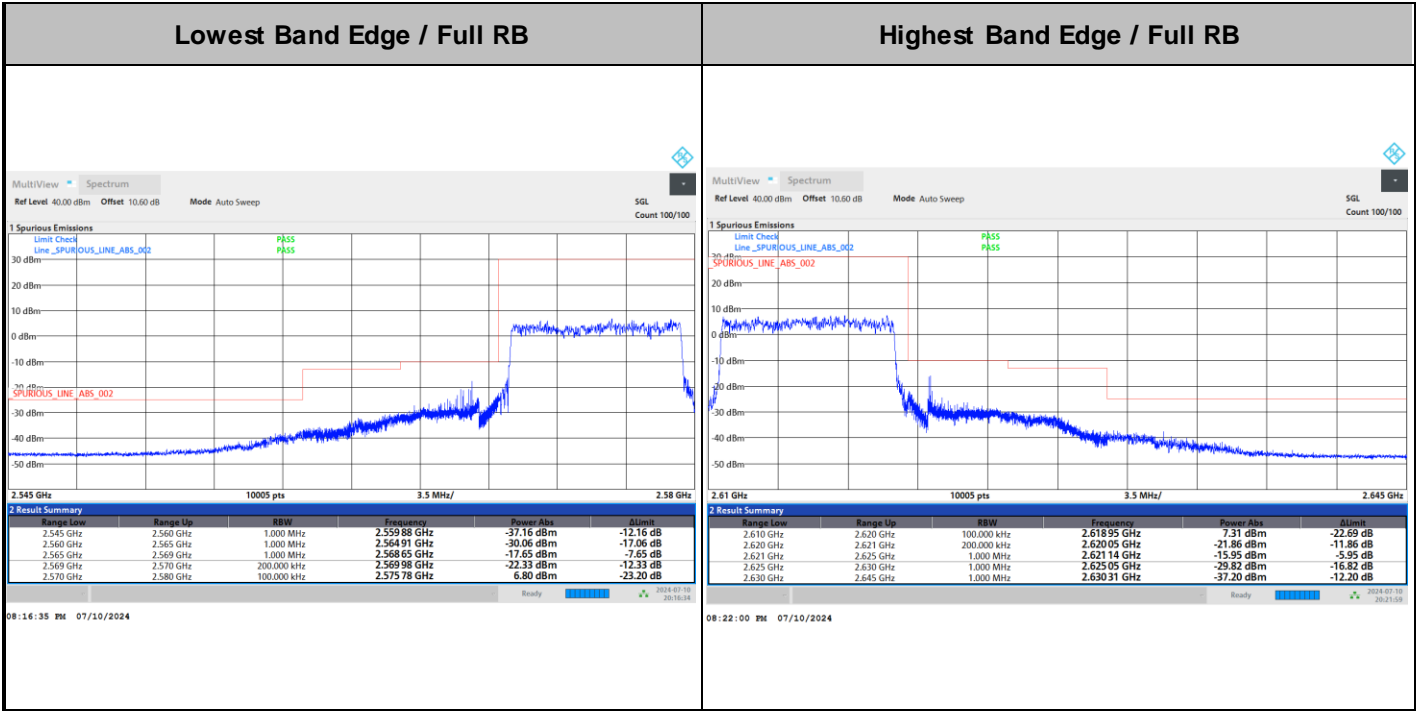
Lowest Band Edge / 1RB0

Power Limit -10dBm -27.75 dBm Pass



Highest Band Edge / 1RBmax



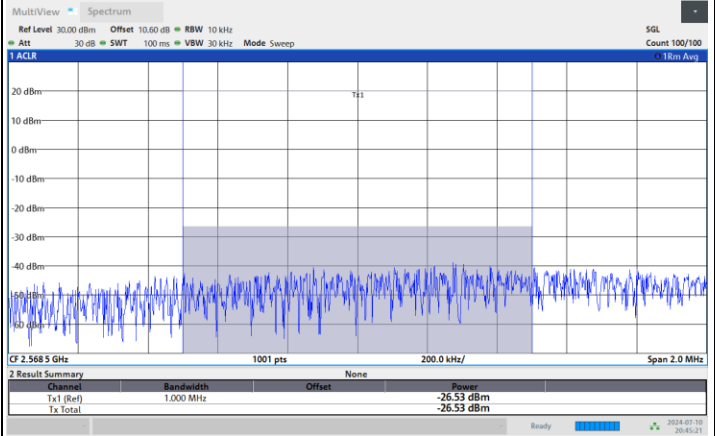
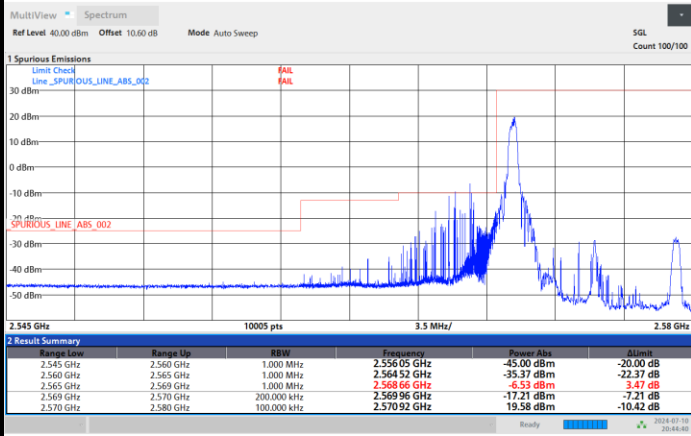




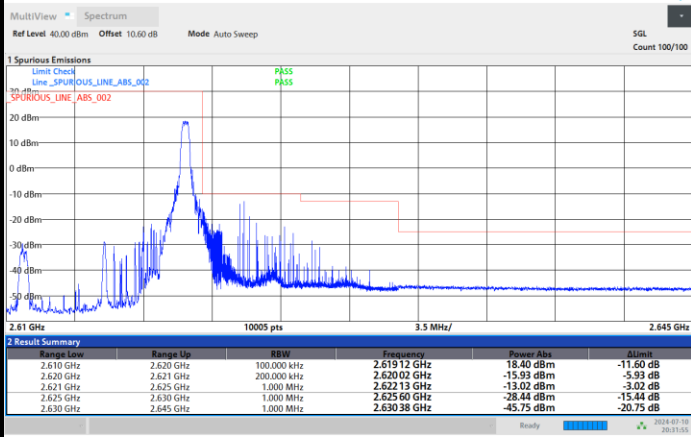
FR1 n38 / 10MHz / DFT-S OFDM / 64QAM

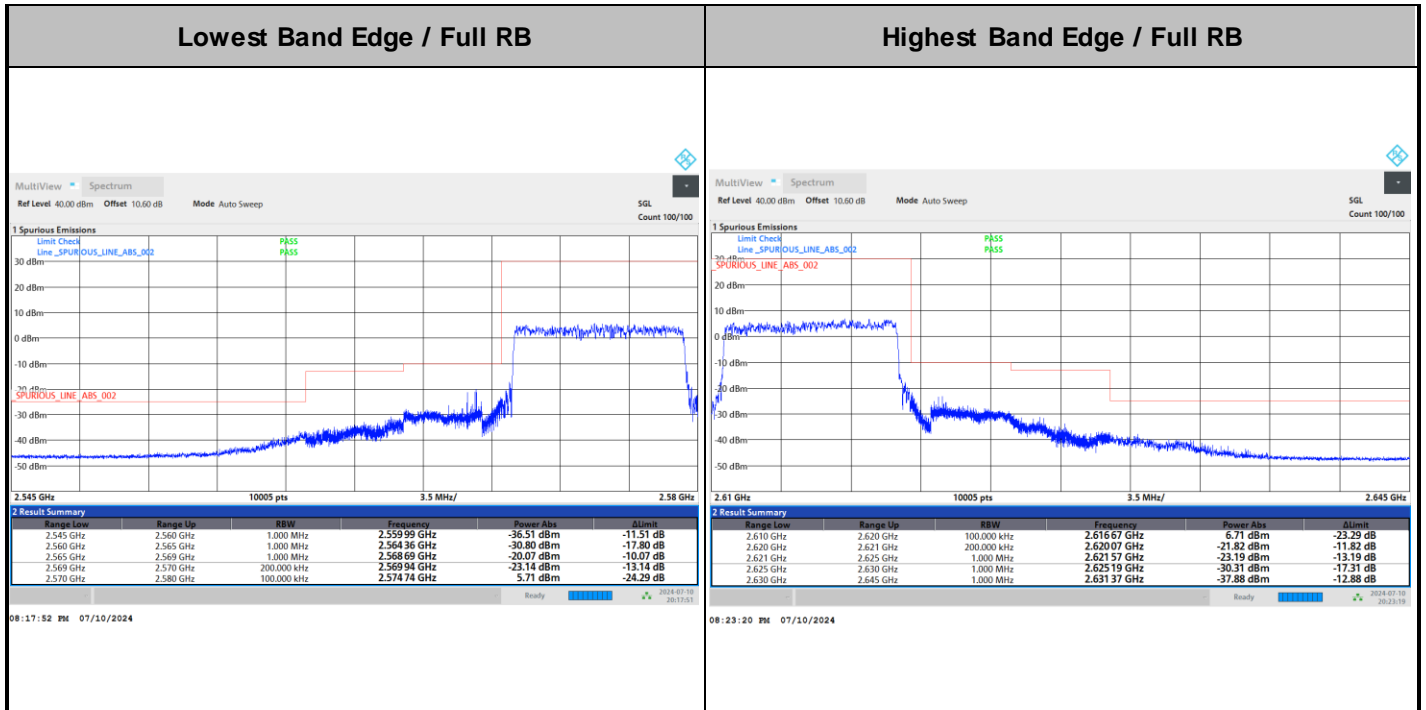
Lowest Band Edge / 1RB0

Power Limit -10dBm -26.53 dBm Pass



Highest Band Edge / 1RBmax

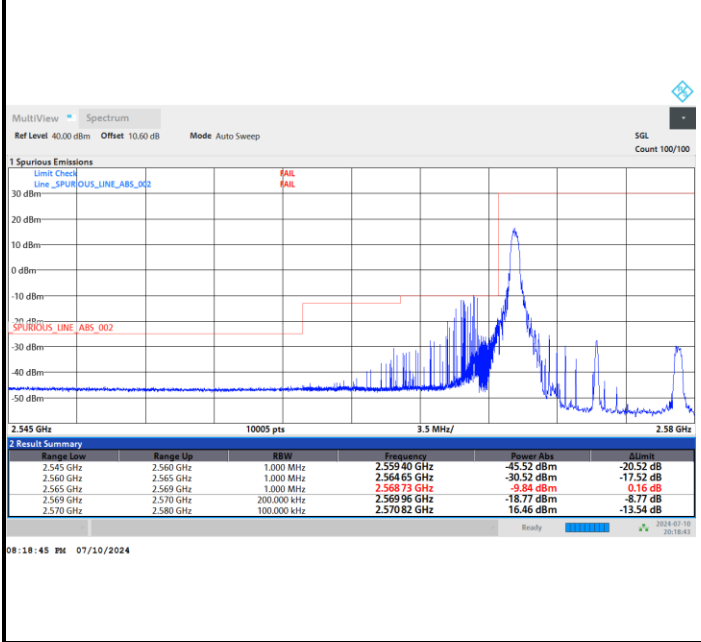




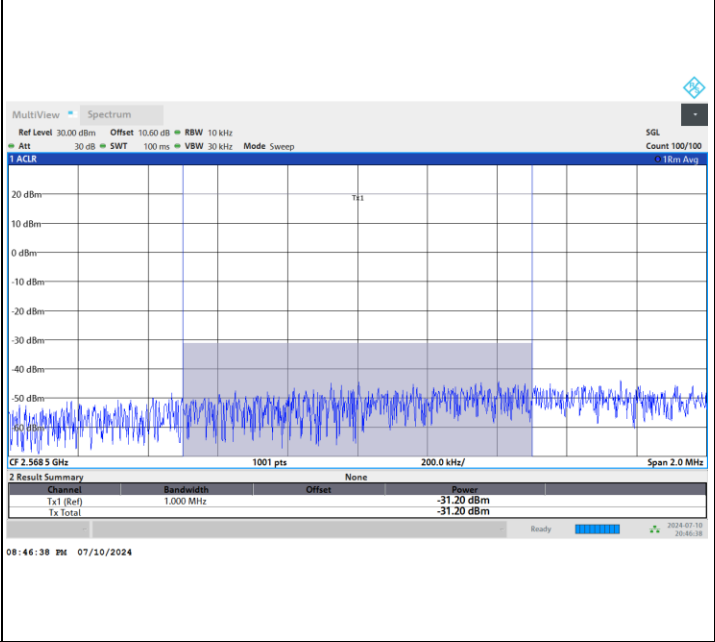


FR1 n38 / 10MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0



Power Limit -10dBm -31.20 dBm Pass



Highest Band Edge / 1RBmax

