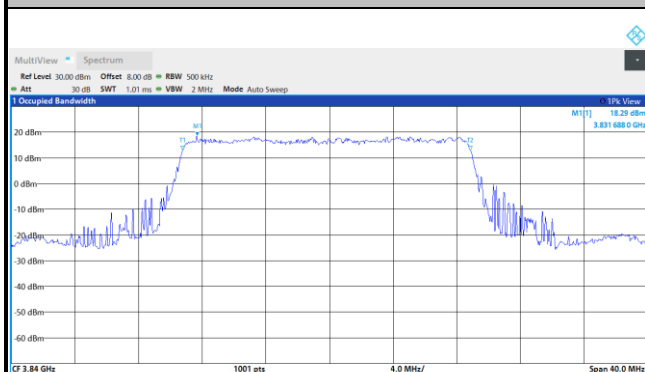




FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

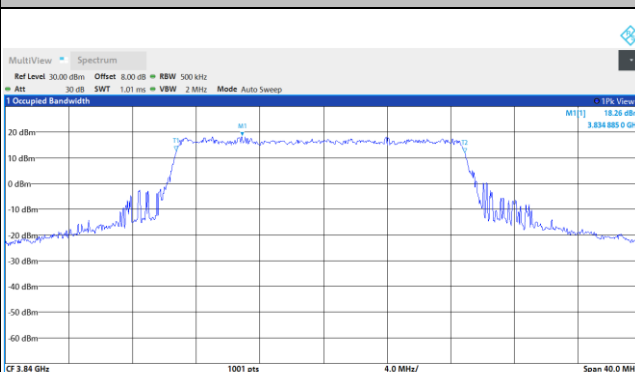
PI/2 BPSK



2 Marker Table		Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1			3.831688 GHz	18.29 dBm	Occ Bw	18.059184658 MHz
T1	1			3.8307876 GHz	12.82 dBm	Occ Bw Centroid	3.839817184 GHz
T2	1			3.8488468 GHz	12.85 dBm	Occ Bw Freq Offset	-183.856270549 kHz

01:16:57 AM 07/12/2025

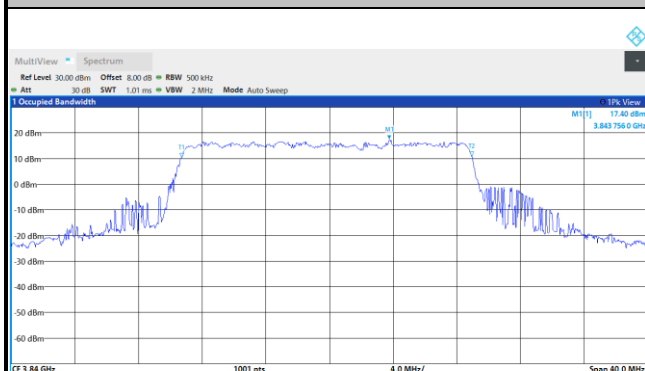
QPSK



2 Marker Table		Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1			3.834885 GHz	18.26 dBm	Occ Bw	18.115961916 MHz
T1	1			3.8307583 GHz	12.59 dBm	Occ Bw Centroid	3.839816255 GHz
T2	1			3.8488742 GHz	11.95 dBm	Occ Bw Freq Offset	-183.74877482 kHz

01:17:52 AM 07/12/2025

16QAM



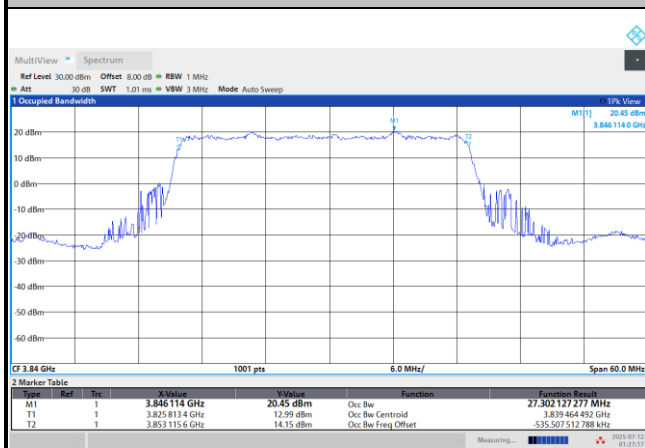
2 Marker Table		Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1			3.843756 GHz	17.40 dBm	Occ Bw	18.219317203 MHz
T1	1			3.8307067 GHz	10.29 dBm	Occ Bw Centroid	3.839816345 GHz
T2	1			3.8488926 GHz	10.89 dBm	Occ Bw Freq Offset	-183.655392697 kHz

01:18:47 AM 07/12/2025



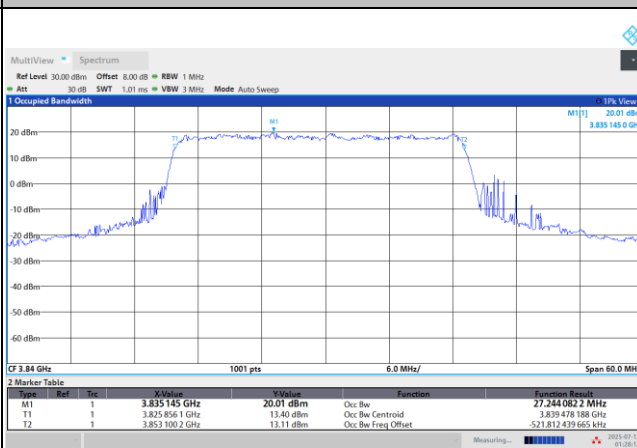
FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



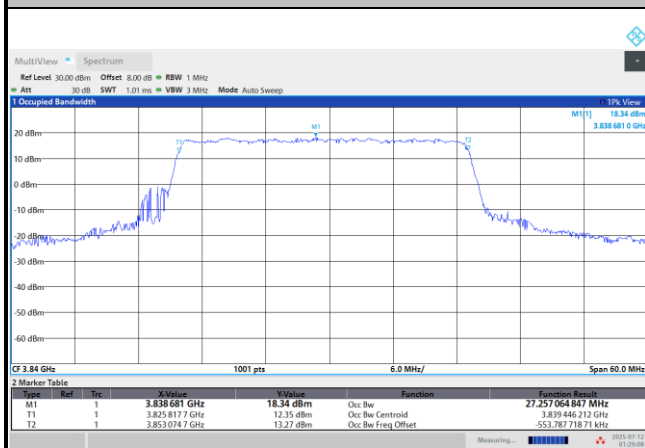
01:27:18 AM 07/12/2025

QPSK



01:28:13 AM 07/12/2025

16QAM

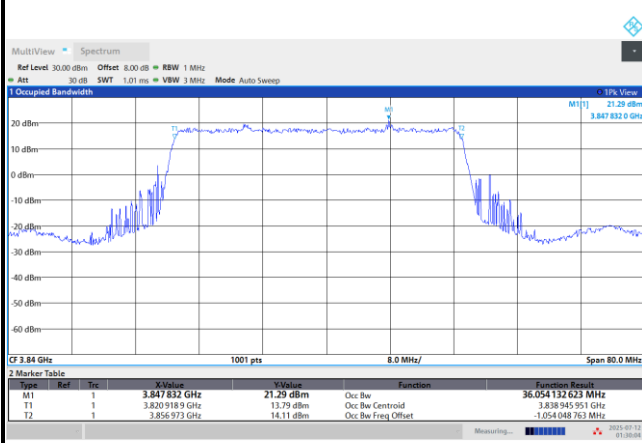


01:29:08 AM 07/12/2025



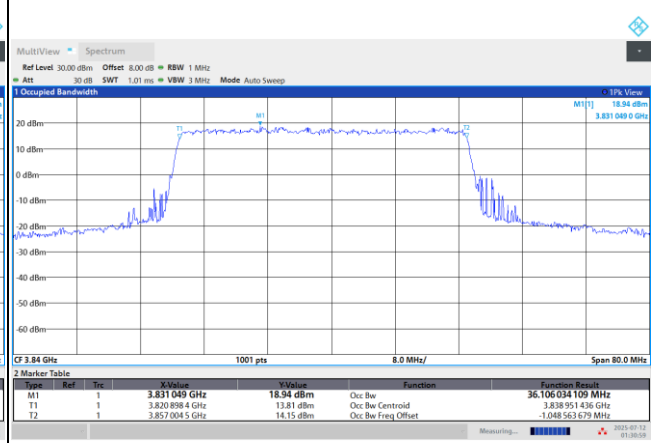
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



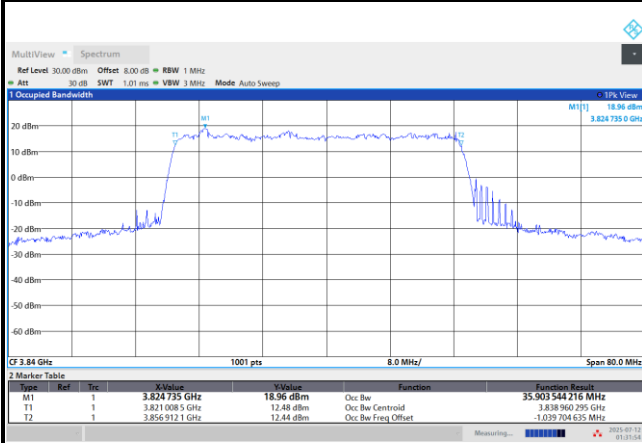
01:30:05 AM 07/12/2025

QPSK



01:31:00 AM 07/12/2025

16QAM

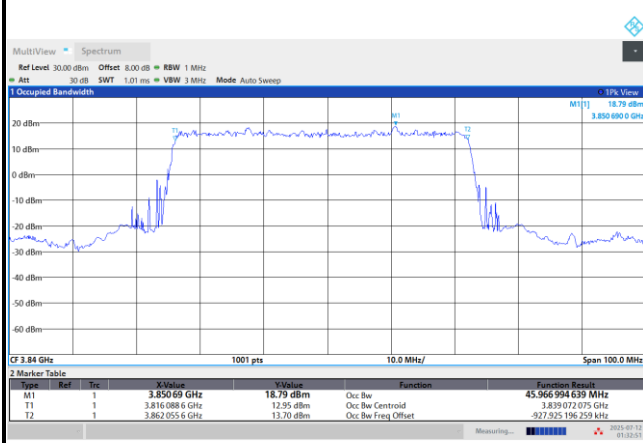


01:31:55 AM 07/12/2025

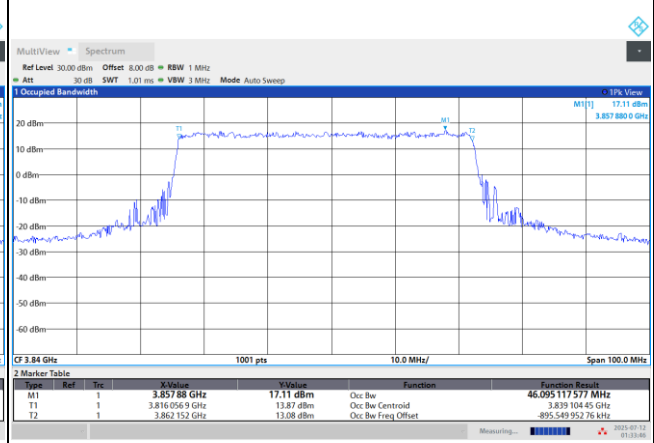


FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

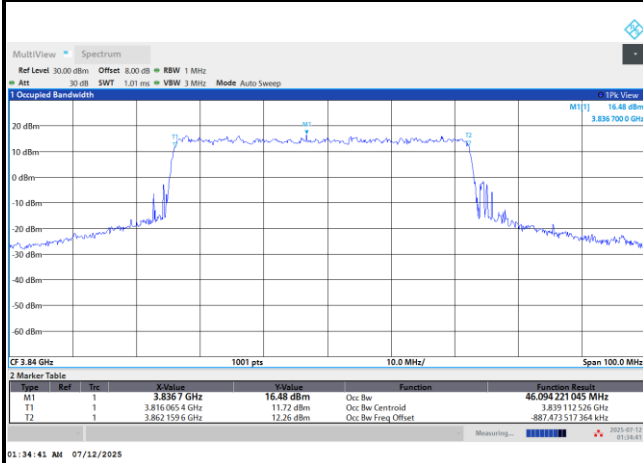
PI/2 BPSK



QPSK



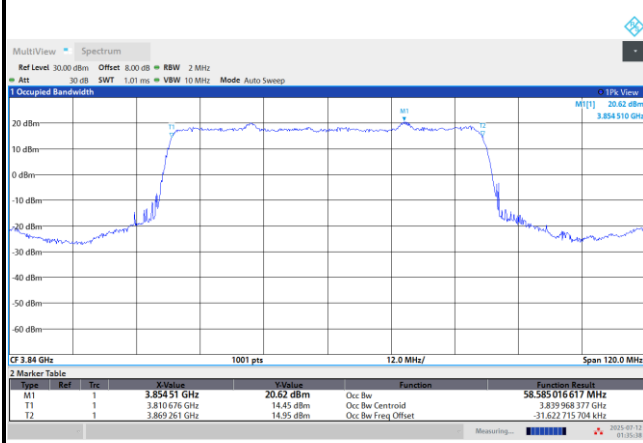
16QAM



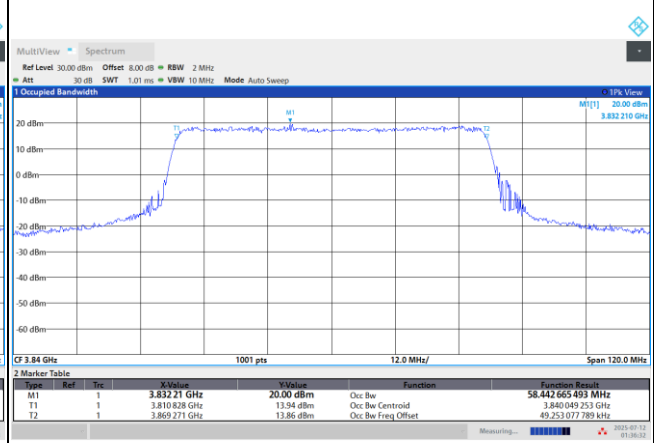


FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

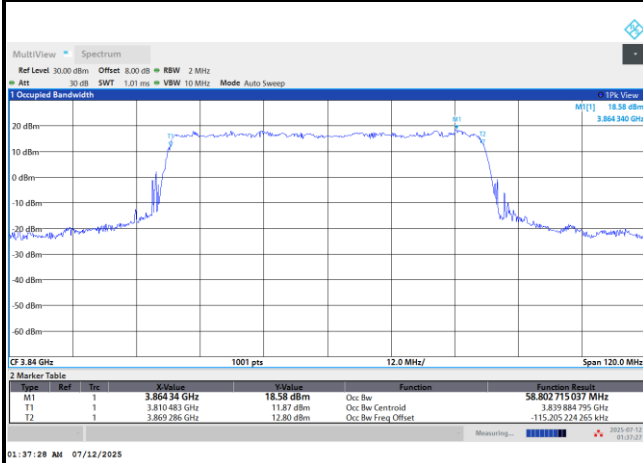
PI/2 BPSK



QPSK



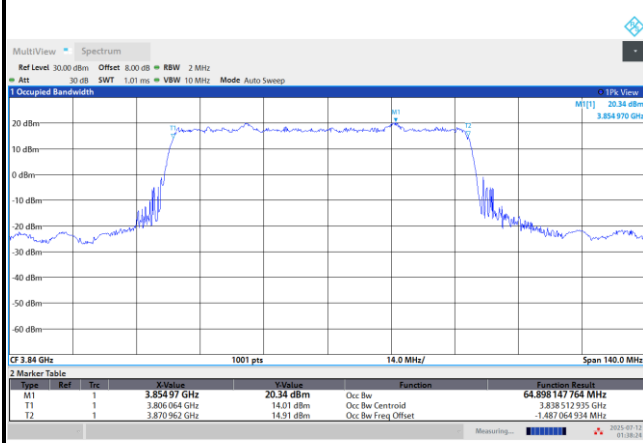
16QAM



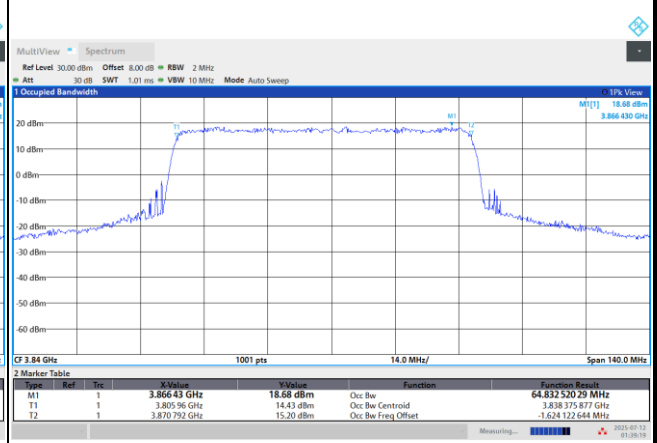


FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

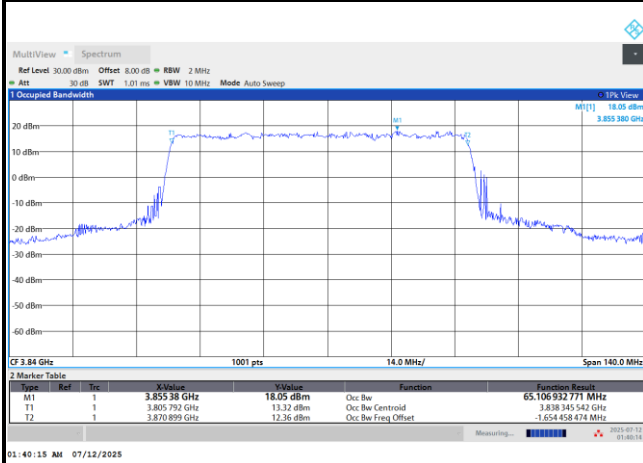
PI/2 BPSK



QPSK



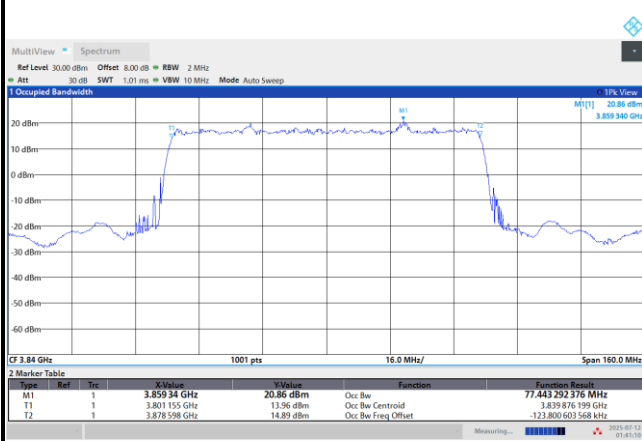
16QAM





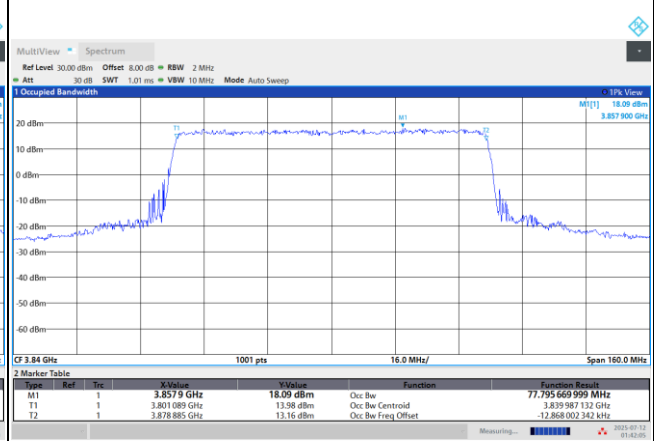
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



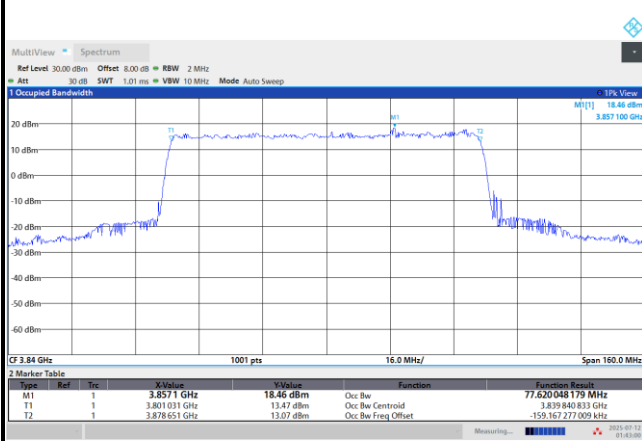
01:41:11 AM 07/12/2025

QPSK



01:42:06 AM 07/12/2025

16QAM

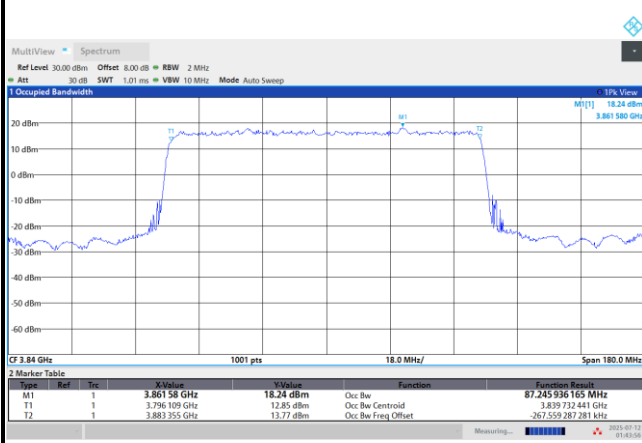


01:43:01 AM 07/12/2025



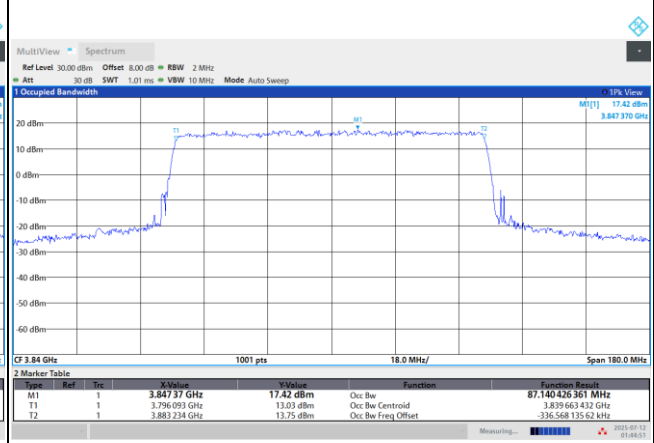
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



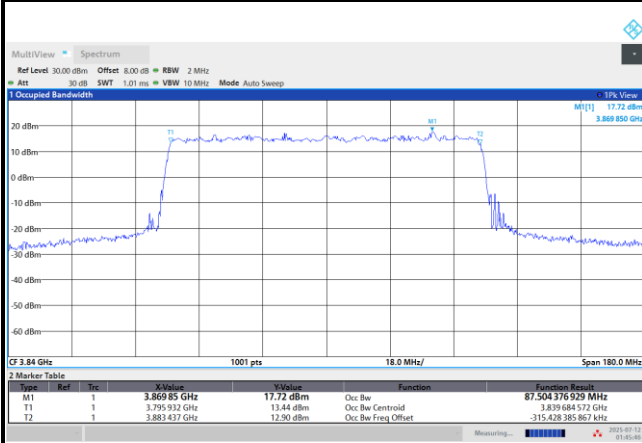
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QPSK



01:44:52 AM 07/12/2025

16QAM

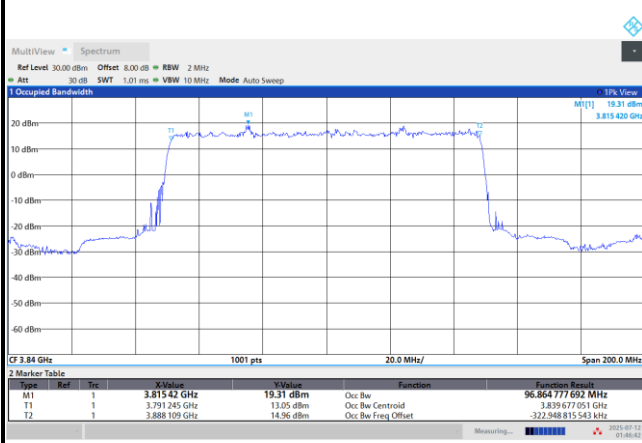


01:45:47 AM 07/12/2025

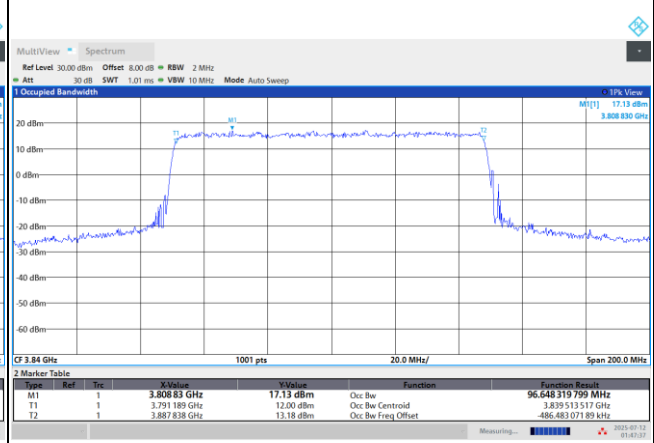


FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

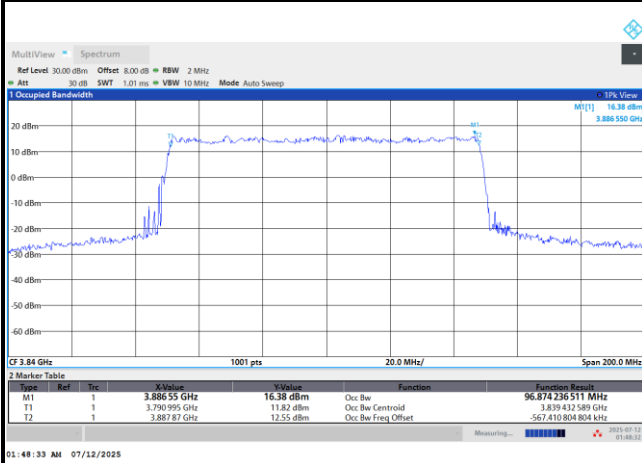
PI/2 BPSK



QPSK



16QAM



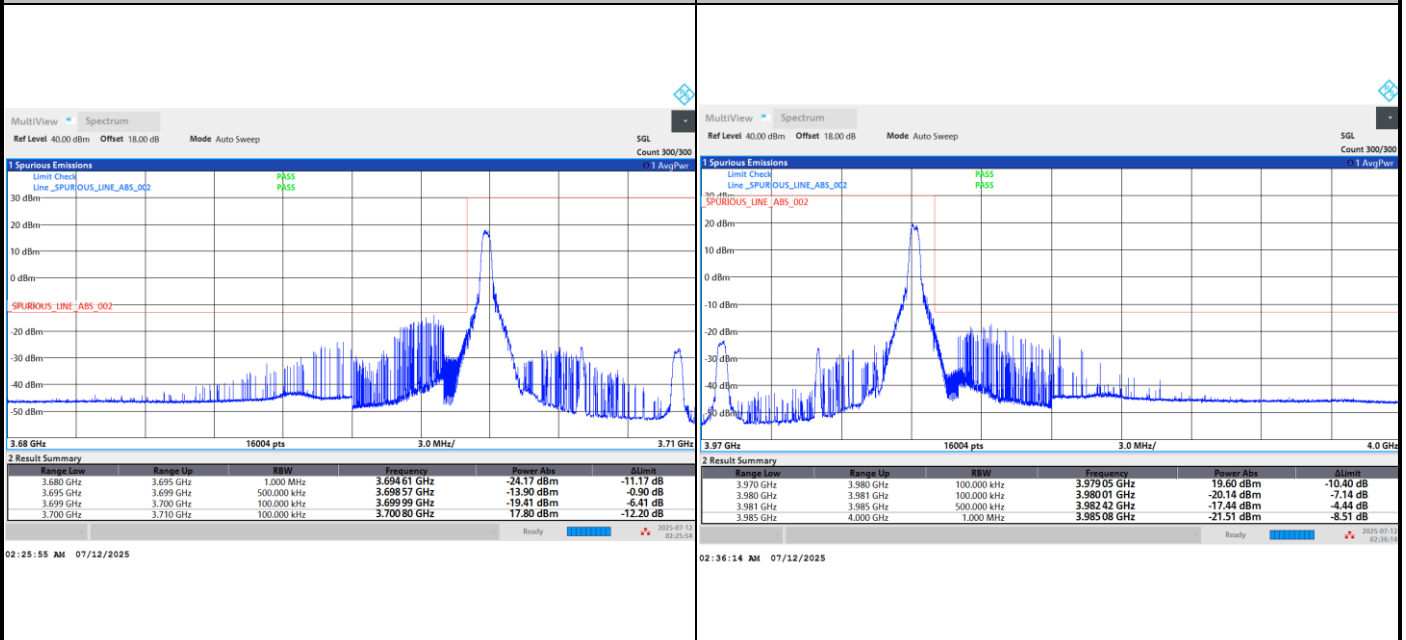


Conducted Band Edge

FR1 n77 / 10MHz / DFT-S OFDM / PI/2 BPSK

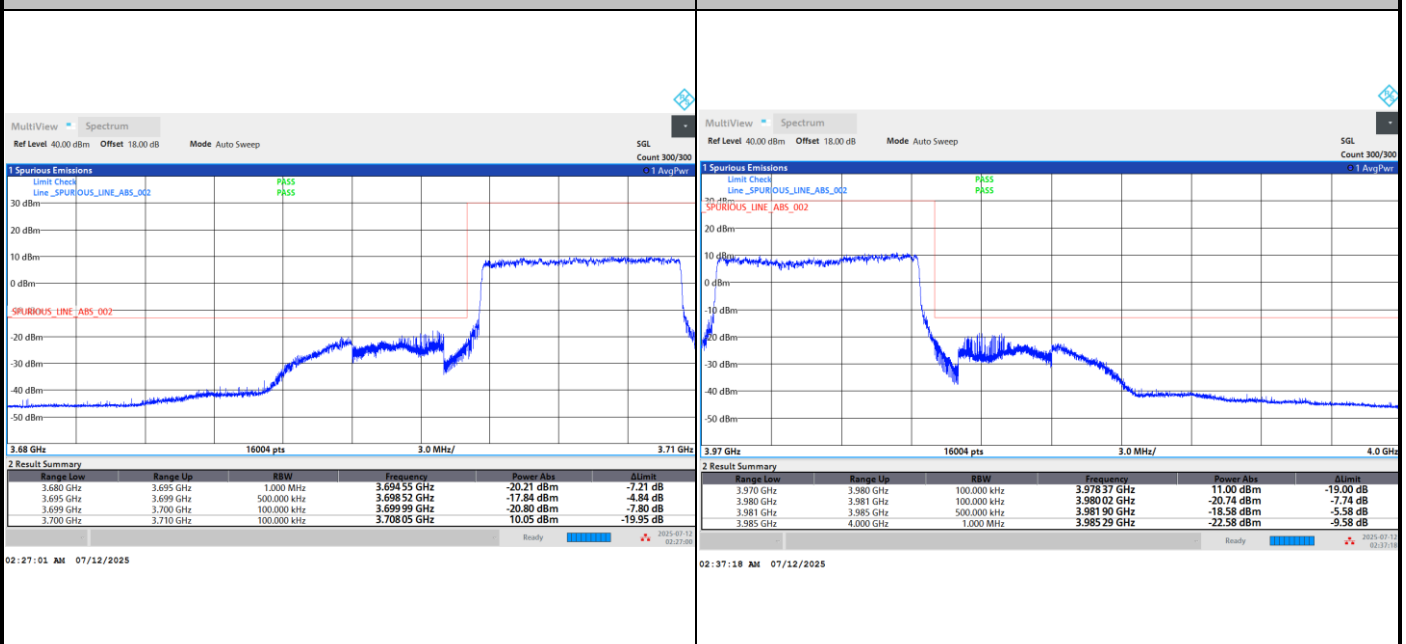
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

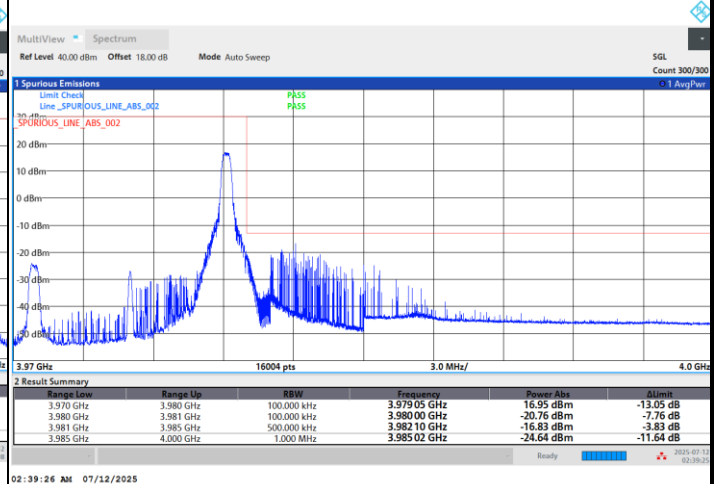
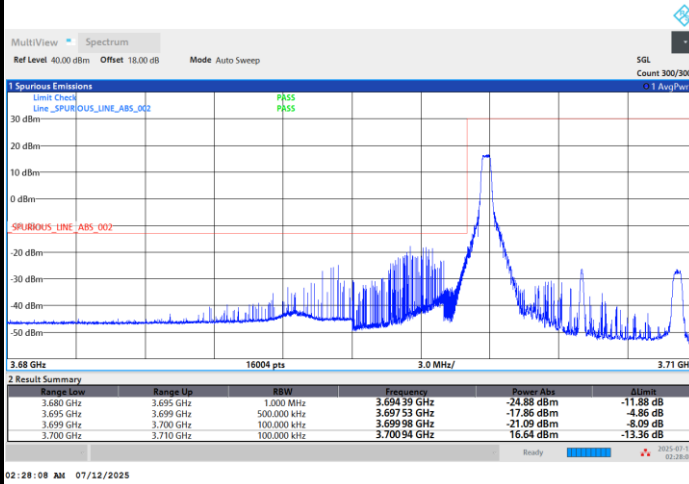




FR1 n77 / 10MHz / DFT-S OFDM / QPSK

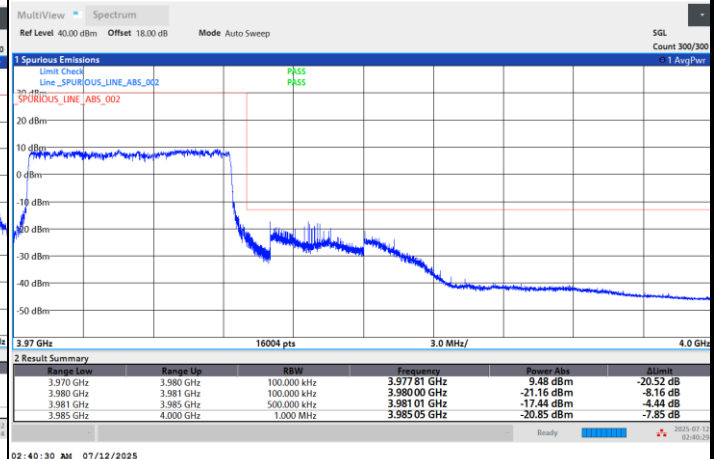
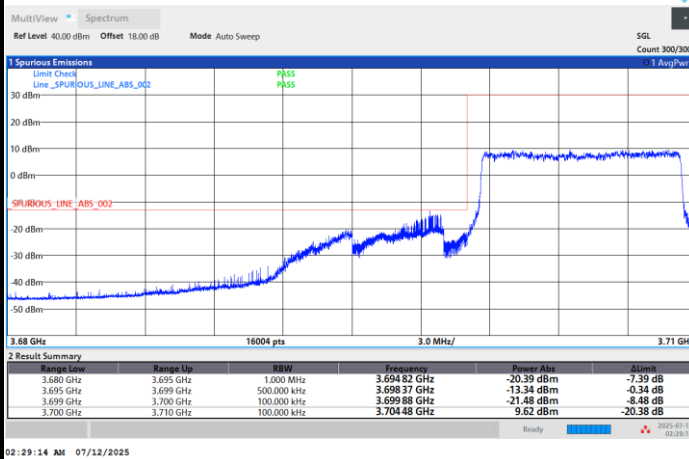
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

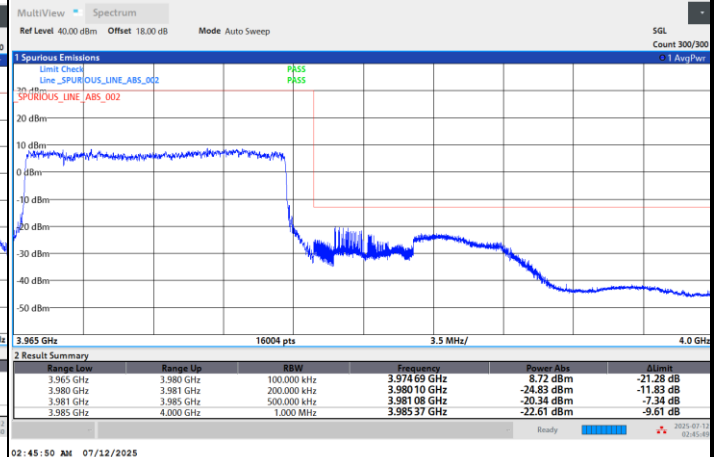
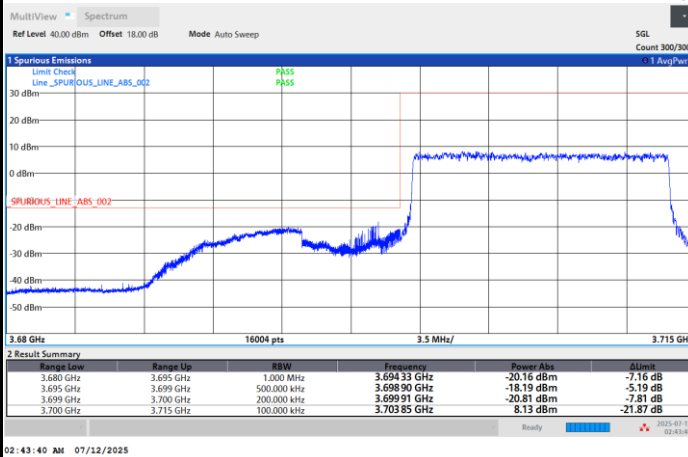




FR1 n77 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

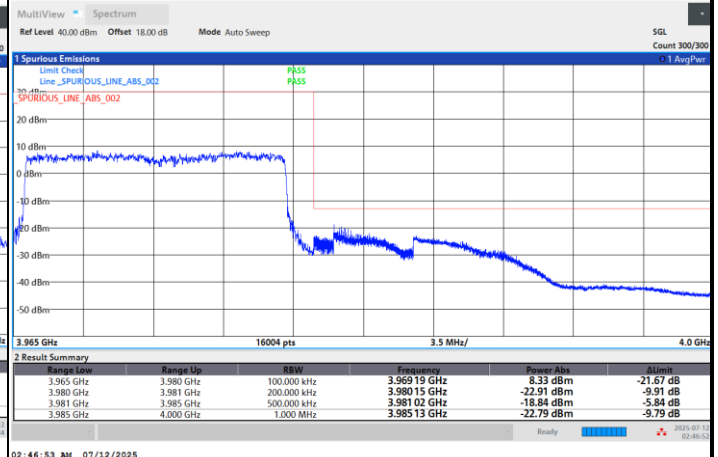
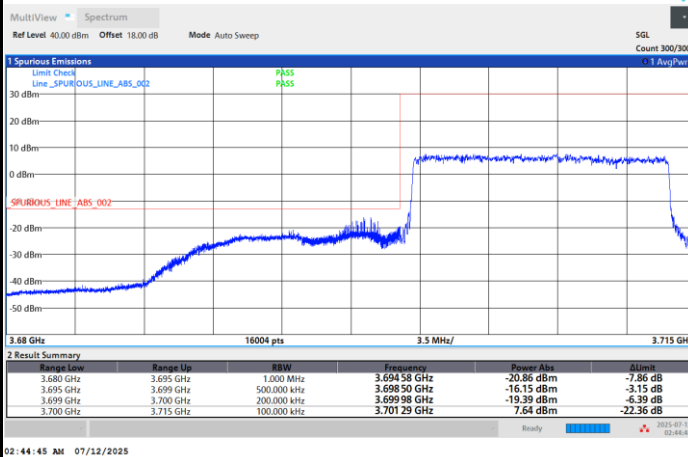
Highest Band Edge / Full RB



FR1 n77 / 15MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

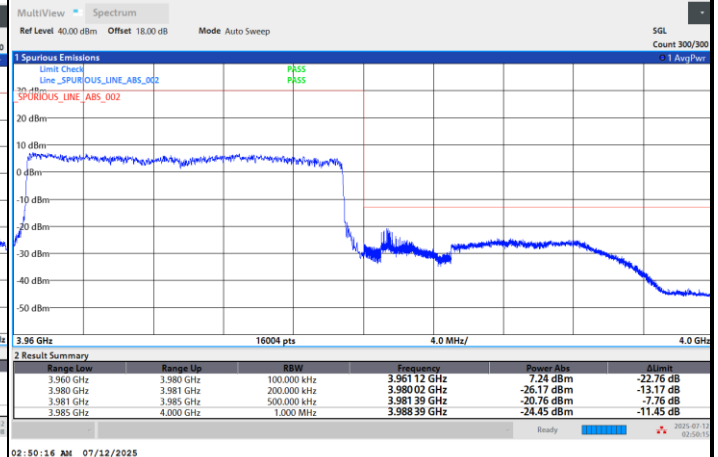
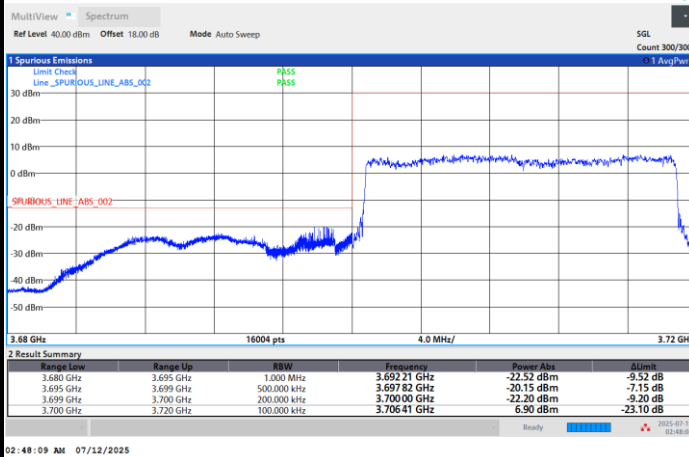




FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

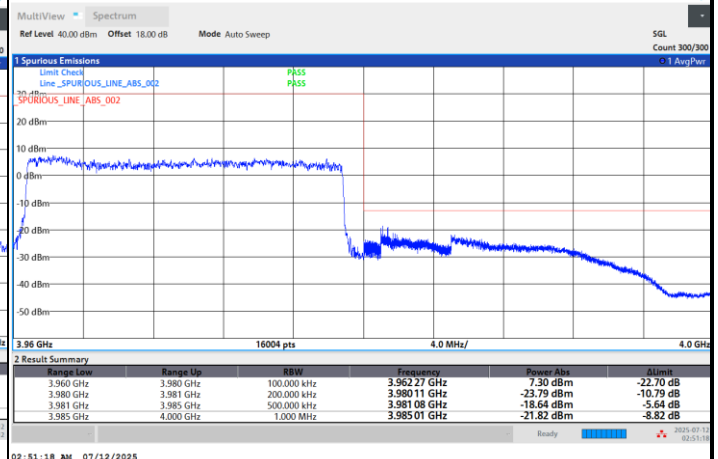
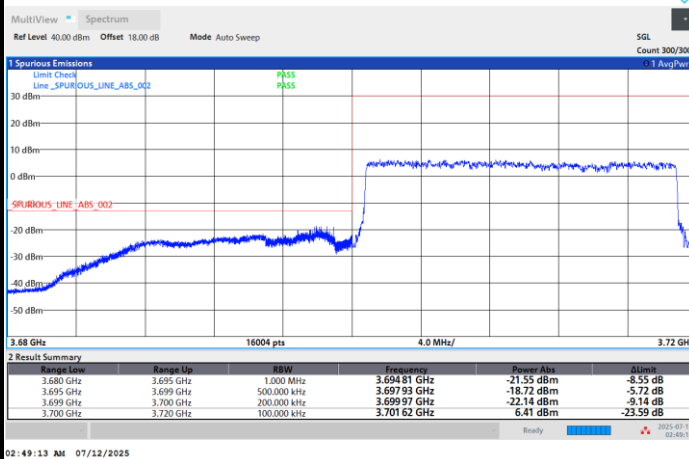
Highest Band Edge / Full RB



FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

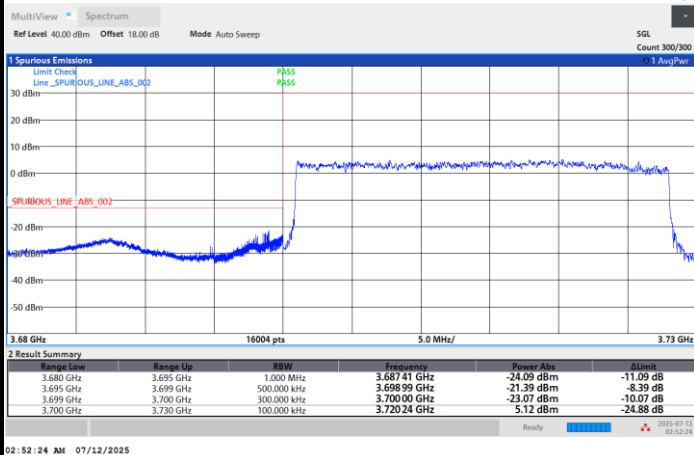




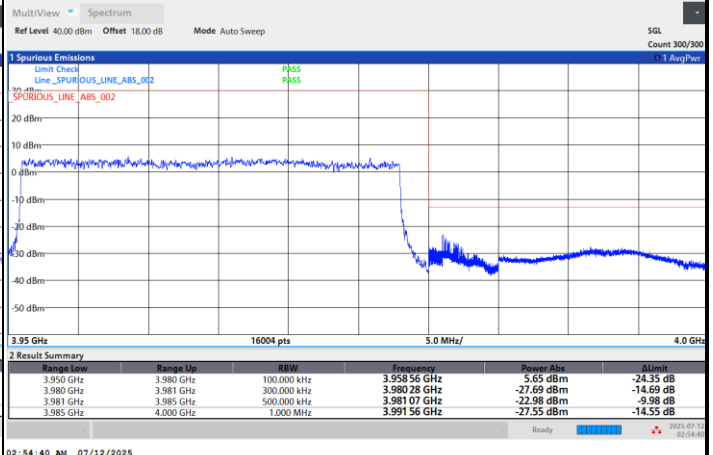
FR1 n77 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:52:24 AM 07/12/2025

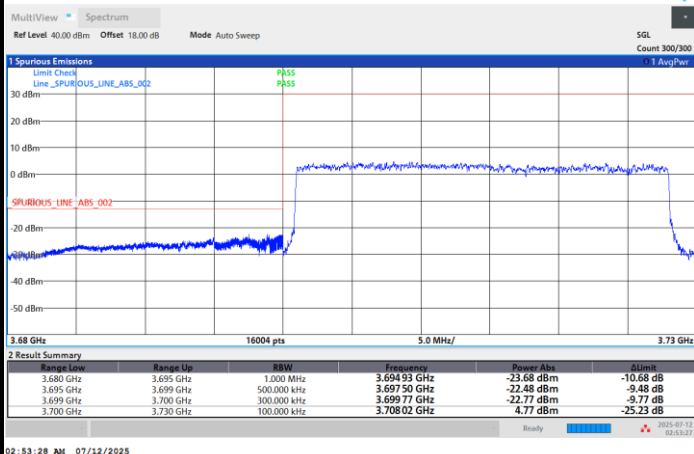


02:54:40 AM 07/12/2025

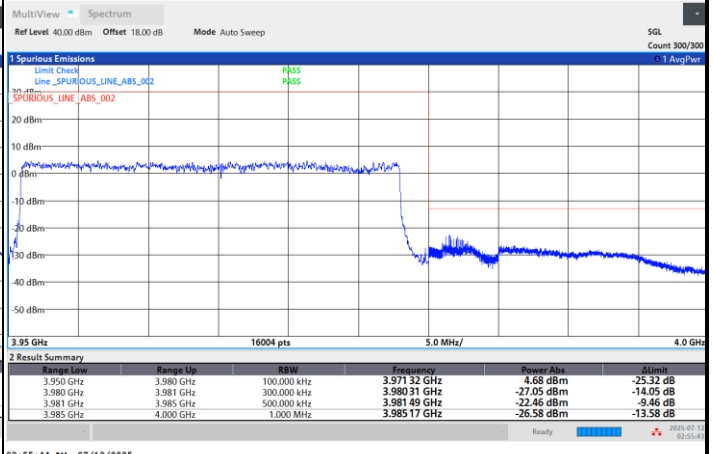
FR1 n77 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:53:28 AM 07/12/2025



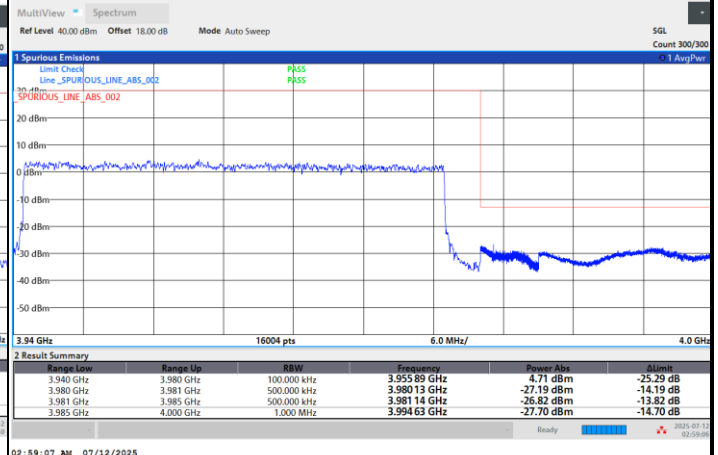
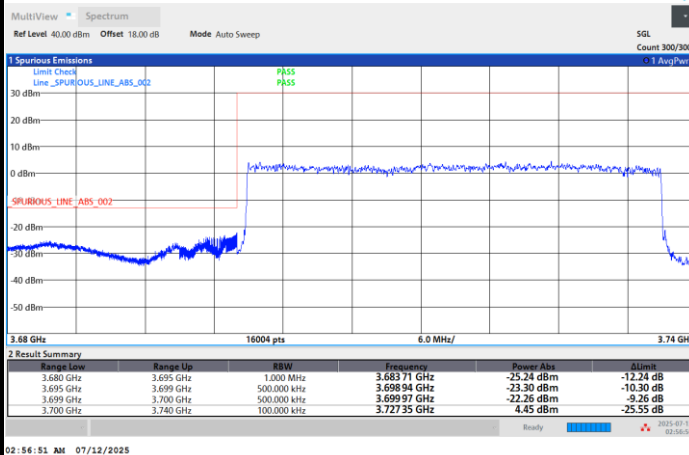
02:55:44 AM 07/12/2025



FR1 n77 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

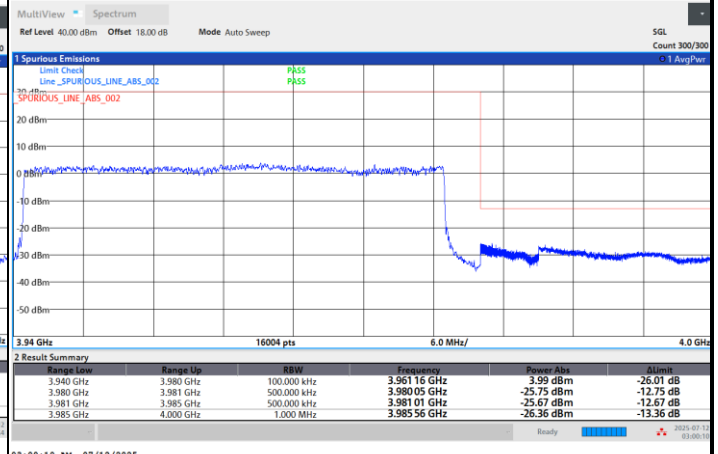
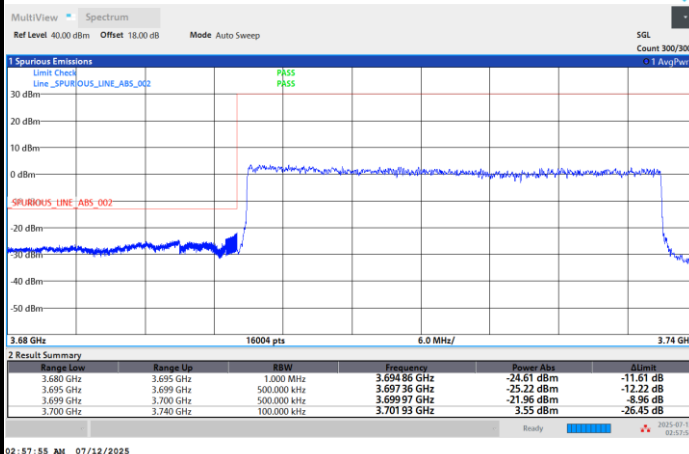
Highest Band Edge / Full RB



FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

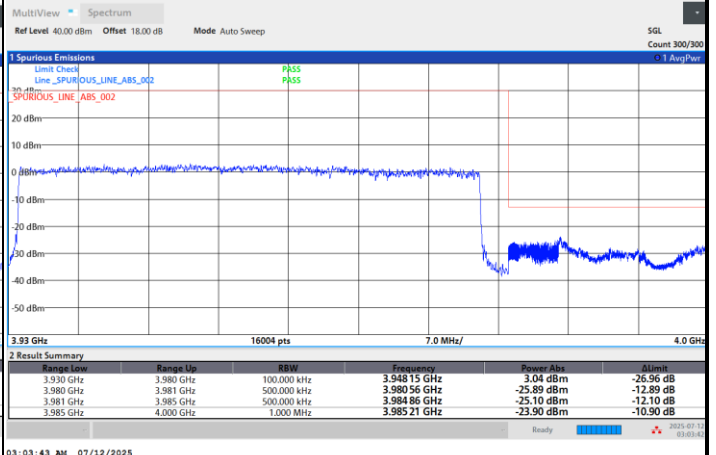
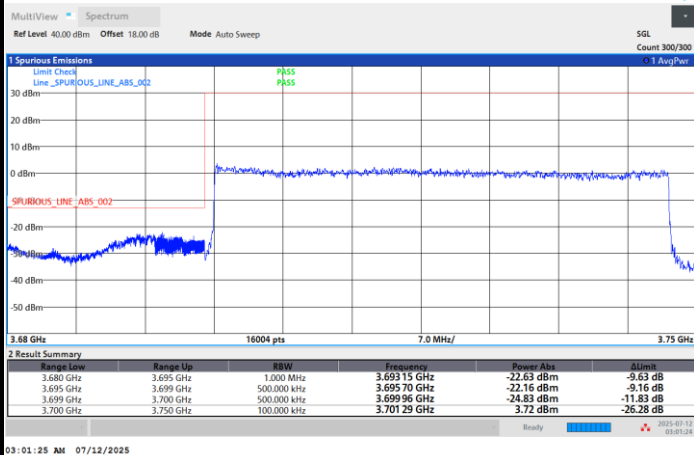




FR1 n77 / 50MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

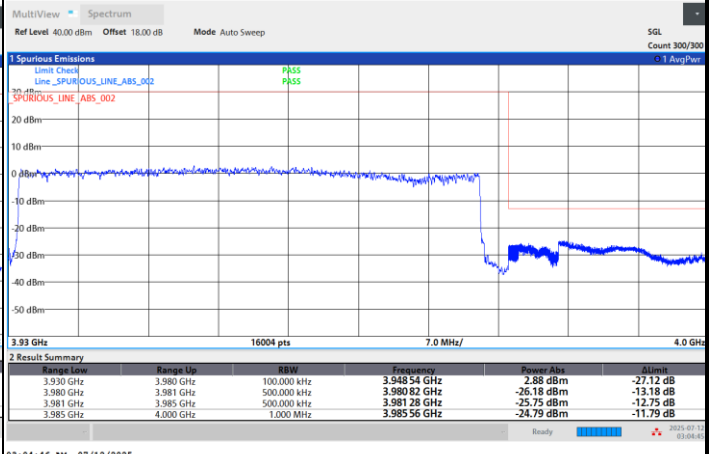
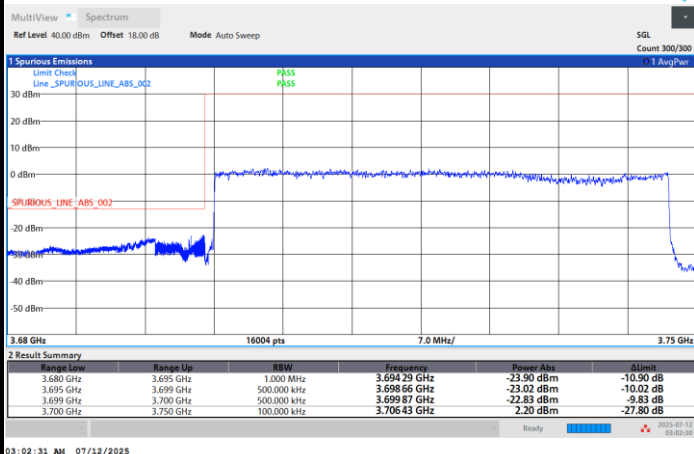
Highest Band Edge / Full RB



FR1 n77 / 50MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

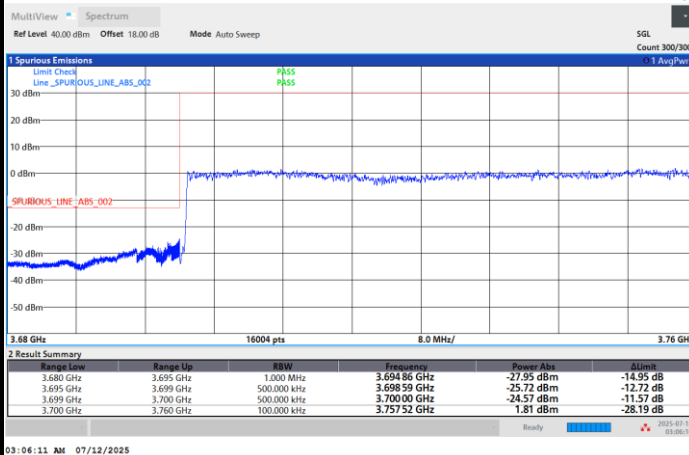




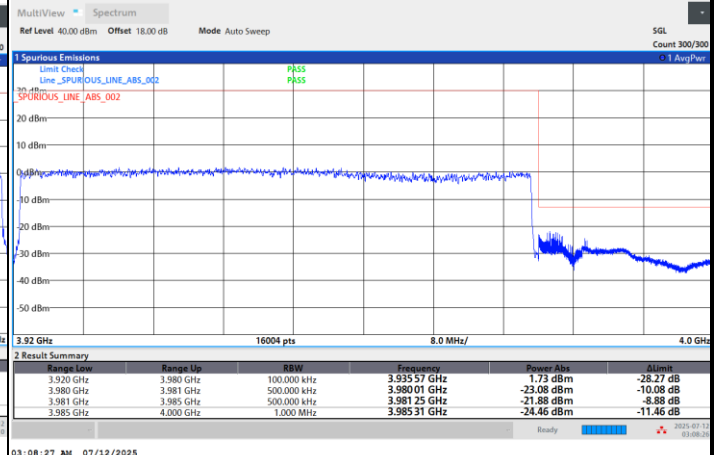
FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:06:11 AM 07/12/2025

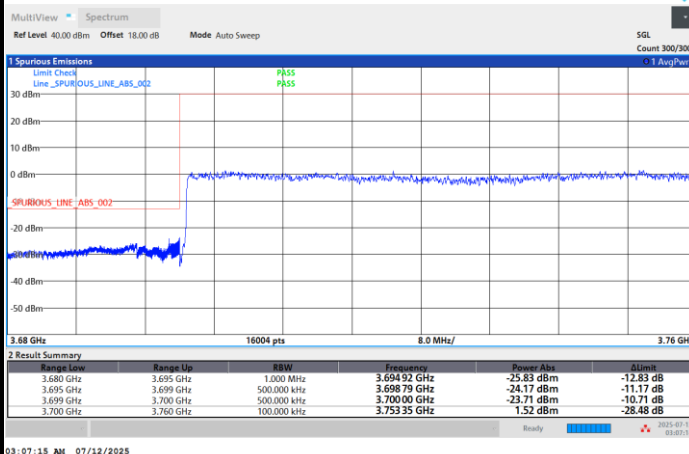


03:08:27 AM 07/12/2025

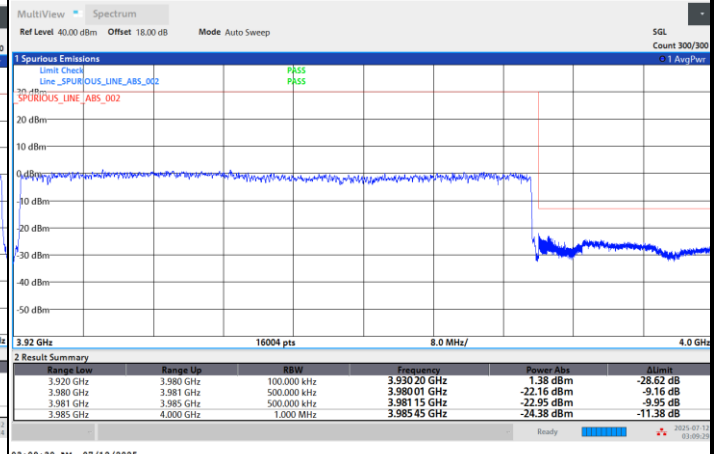
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:07:15 AM 07/12/2025



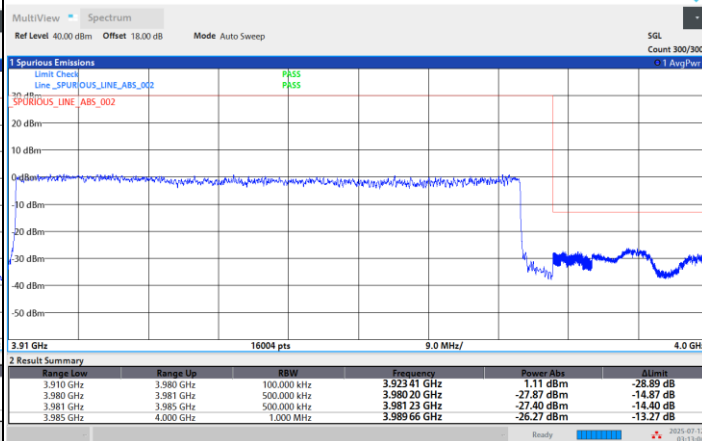
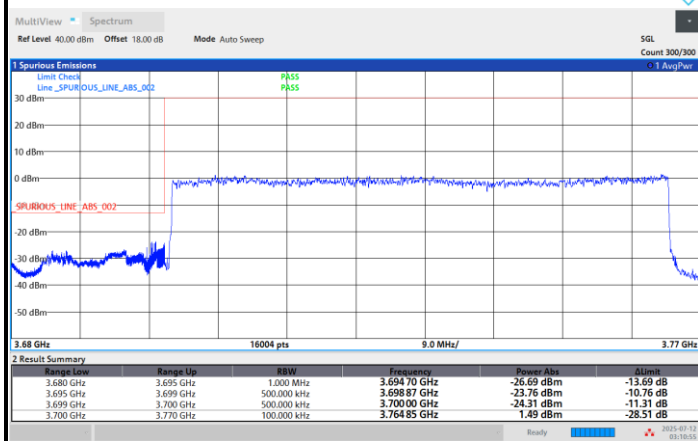
03:09:30 AM 07/12/2025



FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

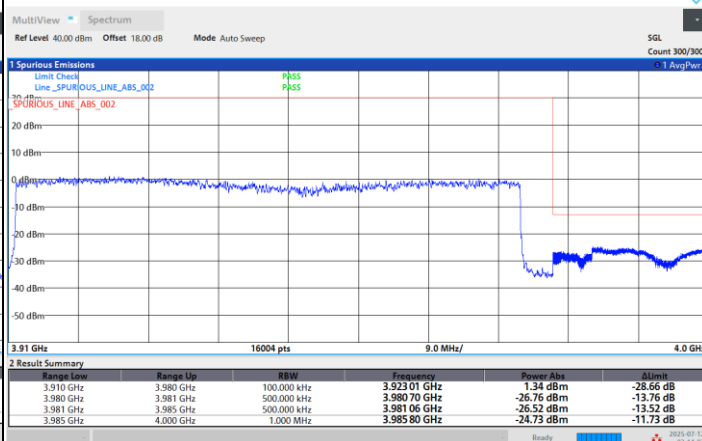
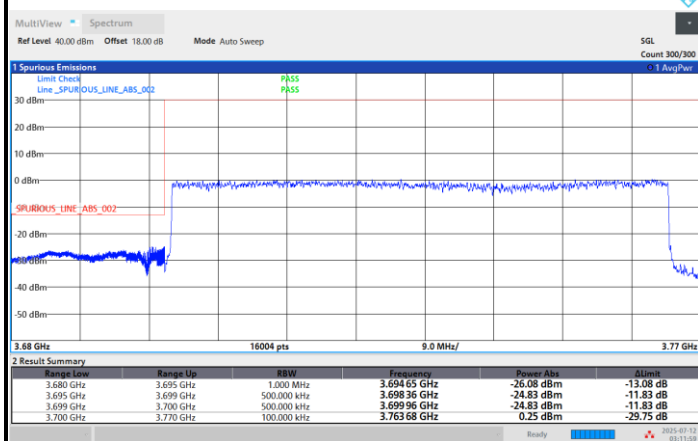
Highest Band Edge / Full RB



FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

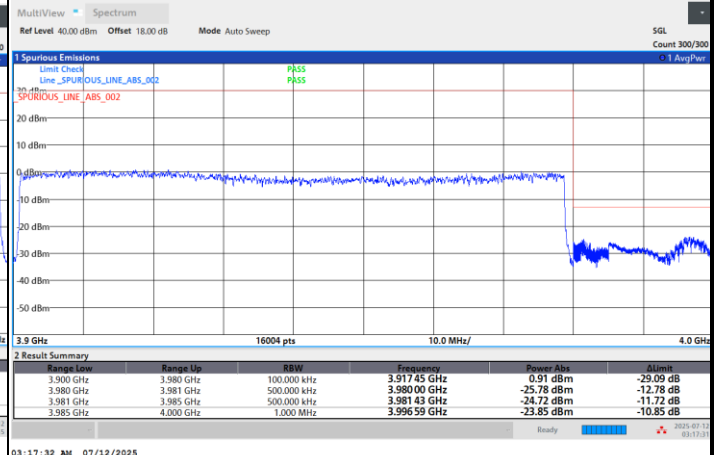
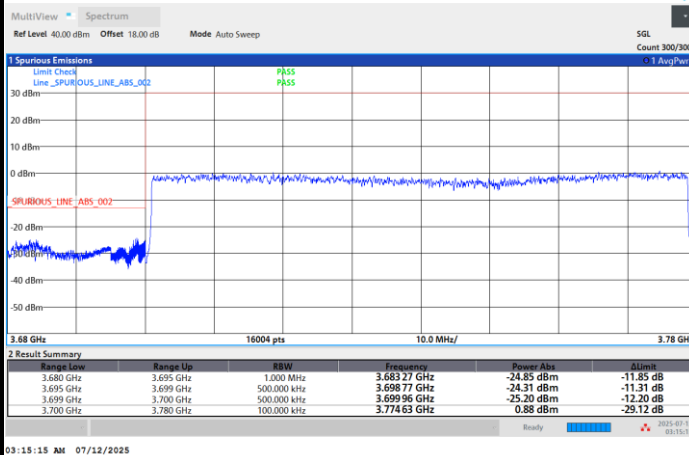




FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

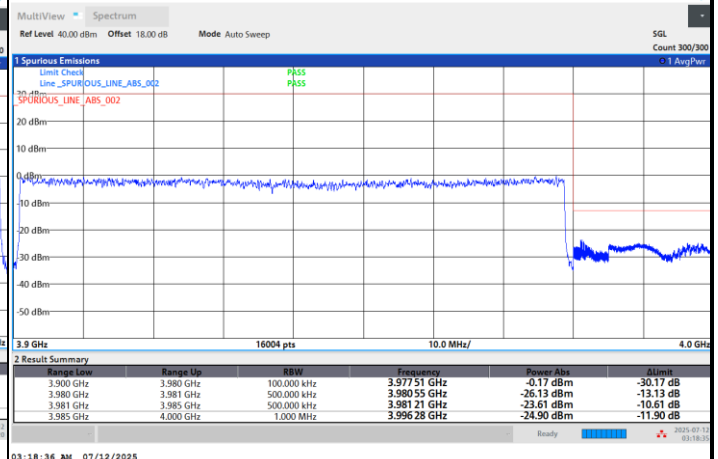
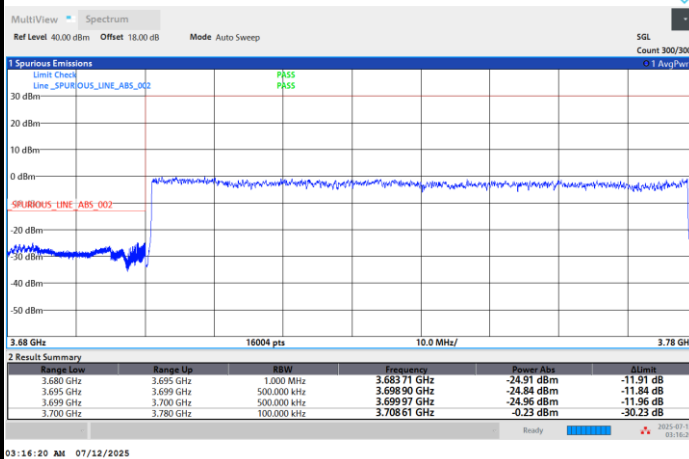
Highest Band Edge / Full RB



FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

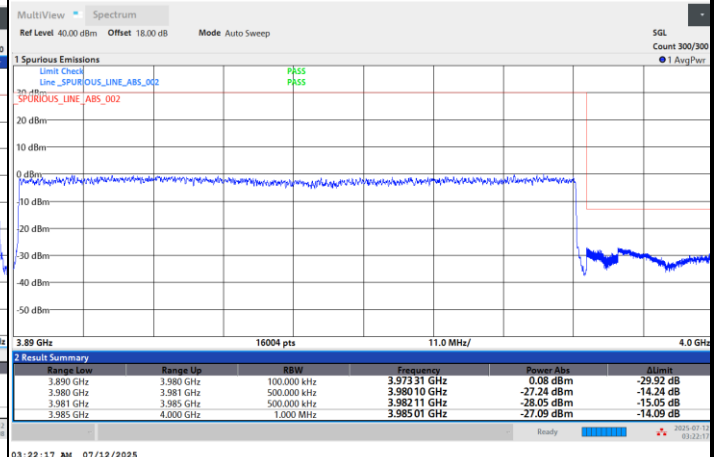
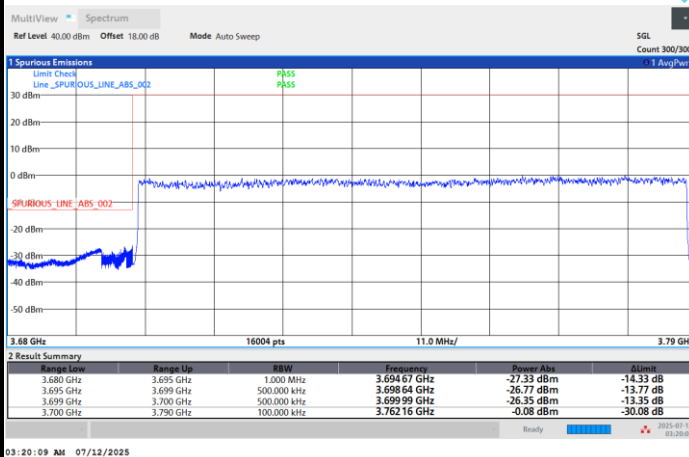




FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

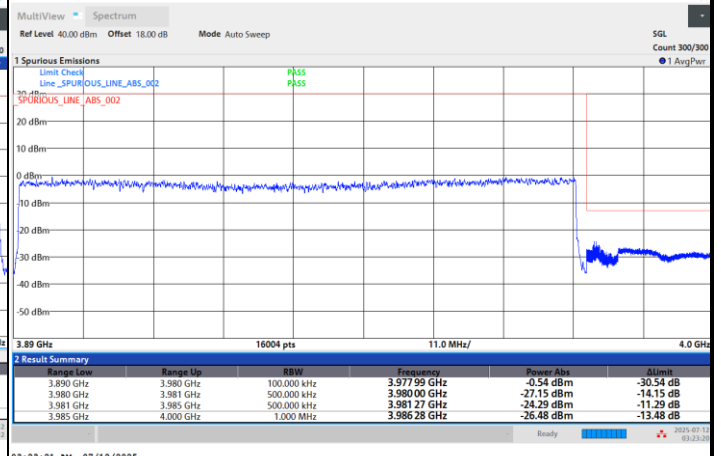
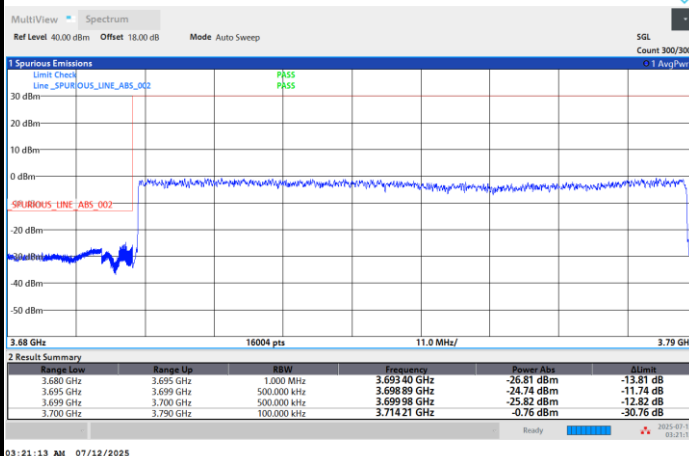
Highest Band Edge / Full RB



FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

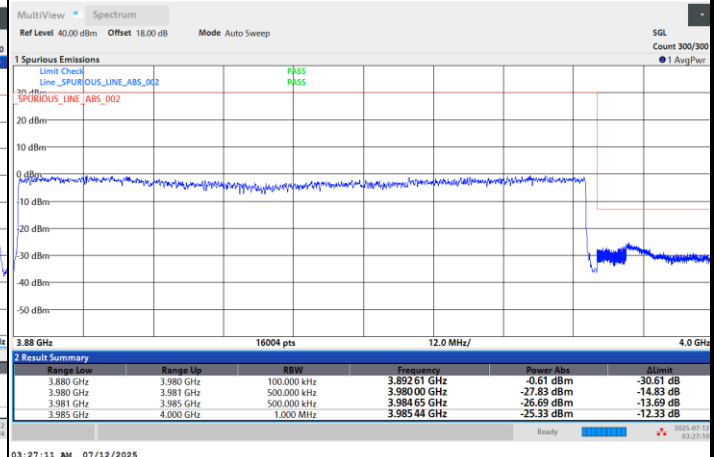
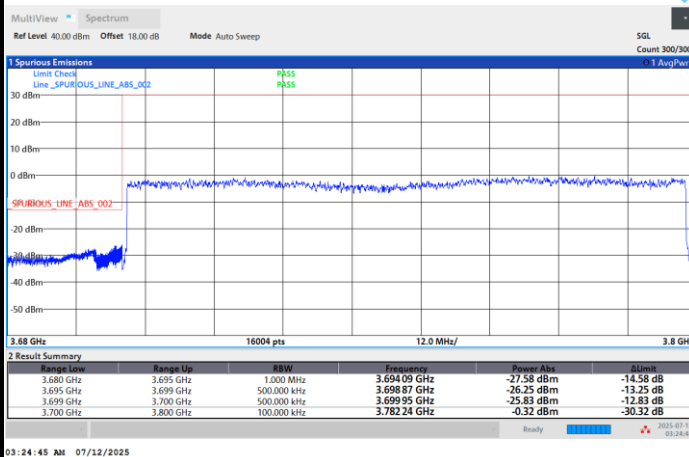




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

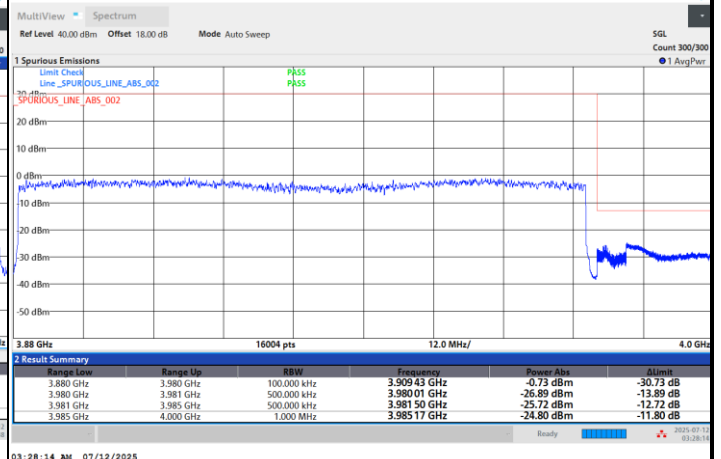
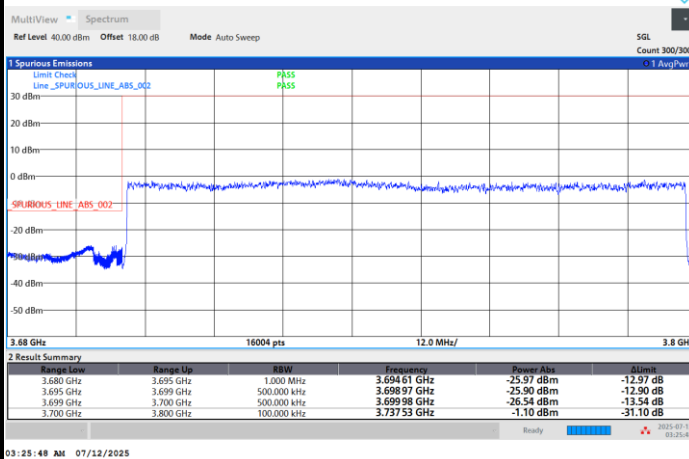
Highest Band Edge / Full RB



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

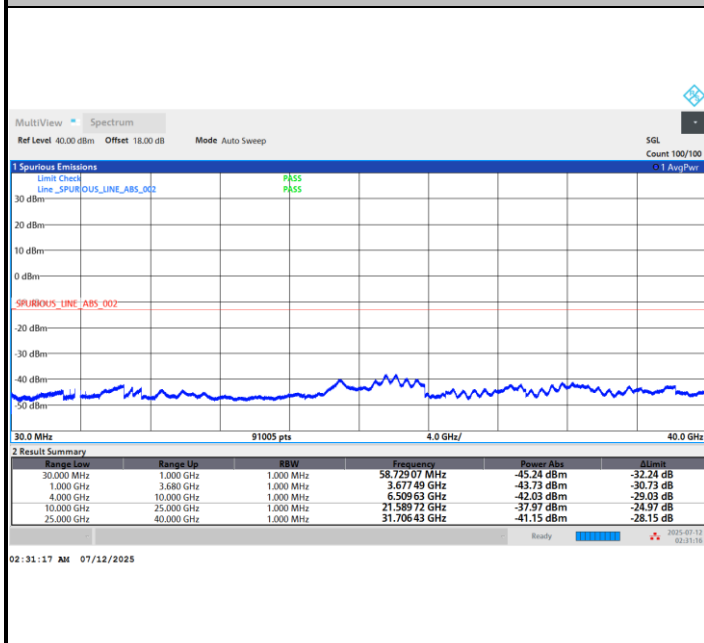




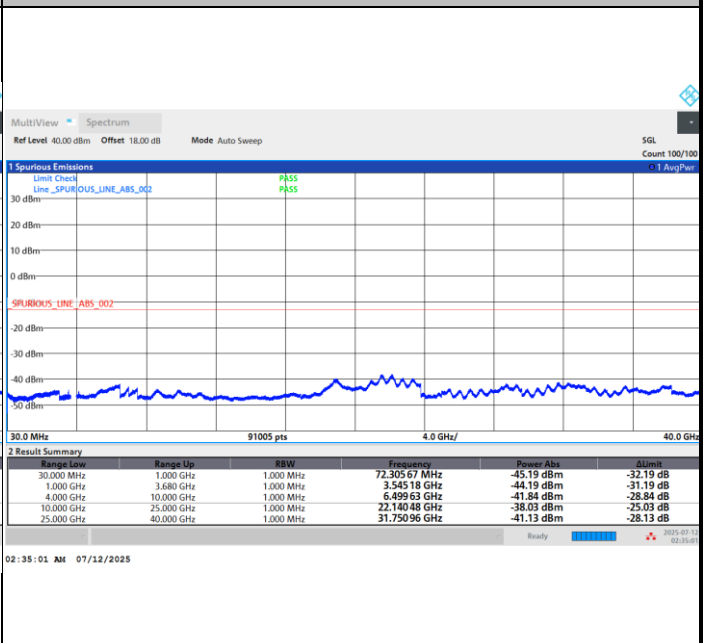
Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

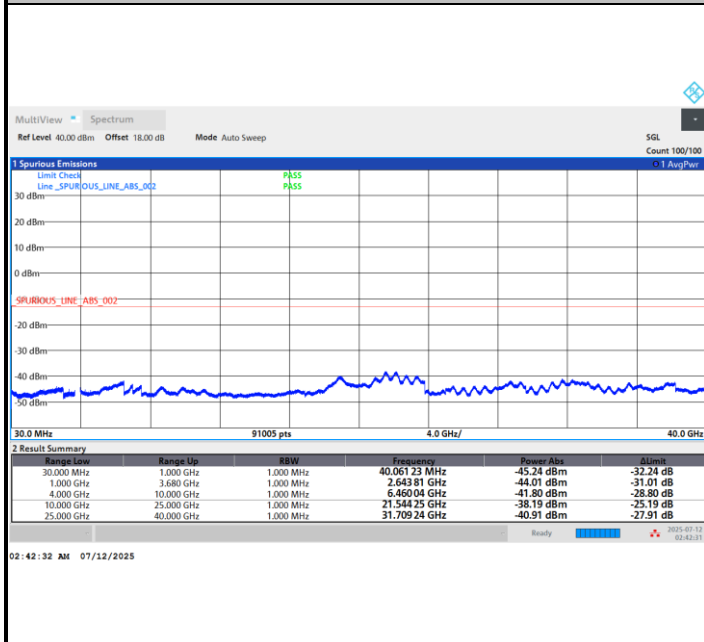
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0016	-6.1	Yes	PASS
40	Normal Voltage	0.0007	2.7	Yes	
30	Normal Voltage	0.0006	-2.2	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0016	6	Yes	
0	Normal Voltage	0.0009	3.5	Yes	
-10	Normal Voltage	0.0021	-8.1	Yes	
-20	Normal Voltage	0.0002	0.7	Yes	
-30	Normal Voltage	0.0006	-2.4	Yes	
20	Maximum Voltage	0.0015	-5.7	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0008	2.9	Yes	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

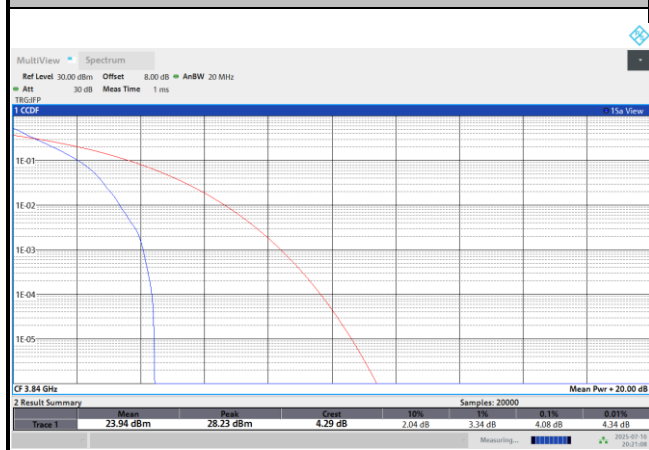
**FR1 n77_Part270****MIMO <Ant. 0+2> (Ant. 2)****Peak-to-Average Ratio**

Mode	FR1 n77 / 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	4.08	4.78	5.82	6.04	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.44				PASS

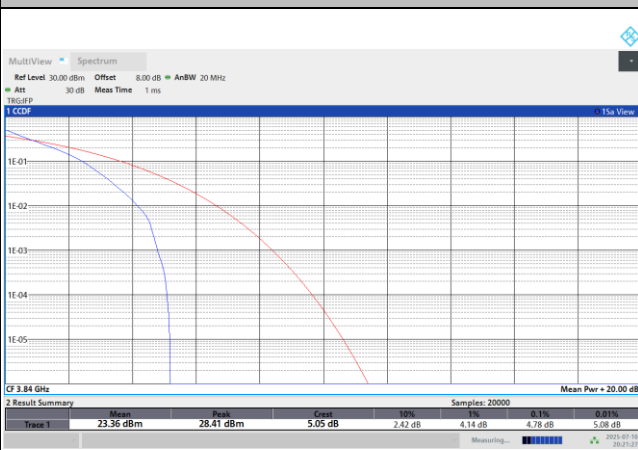


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

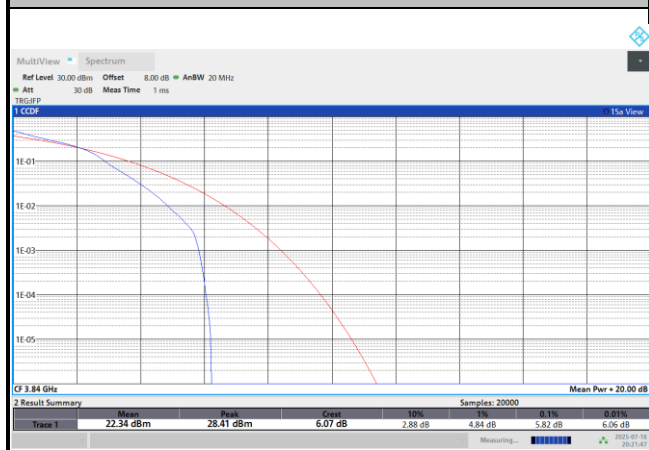
PI/2 BPSK



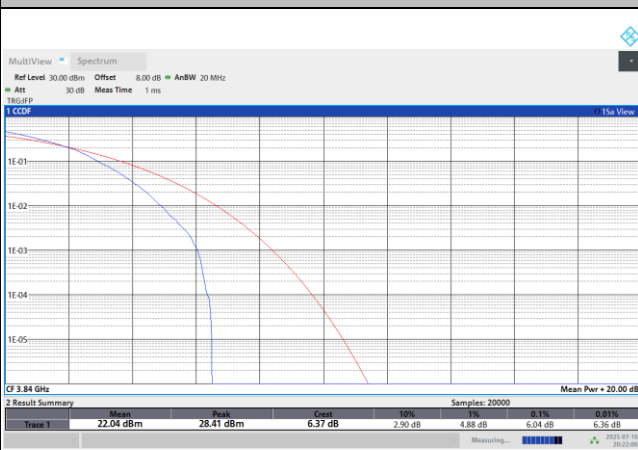
QPSK



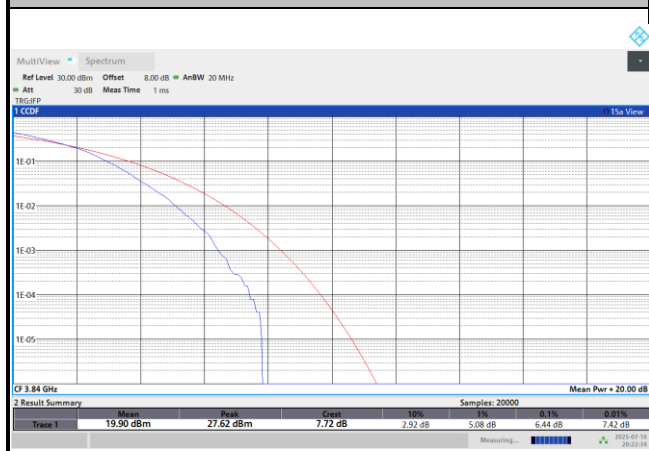
16QAM



64QAM



256QAM



**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	10.20	10.08	14.74	14.78	21.80	22.56	30.31	30.48
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	10.07		14.92		21.93		31.51	
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	41.45	39.78	50.50	50.49	62.71	62.68	69.13	69.81
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	39.86		49.40		63.46		69.98	
BW	80MHz		90MHz		100MHz			
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Middle CH	82.40	83.03	93.07	93.26	102.09	102.23		
Mod.	16QAM		16QAM		16QAM			
Middle CH	82.17		92.77		104.51			