



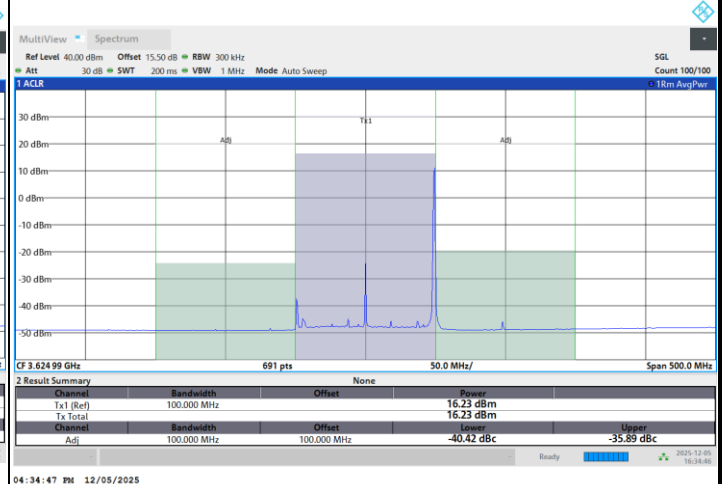
FR1 n48 / 100MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

1RB0



1RBmax



Full RB





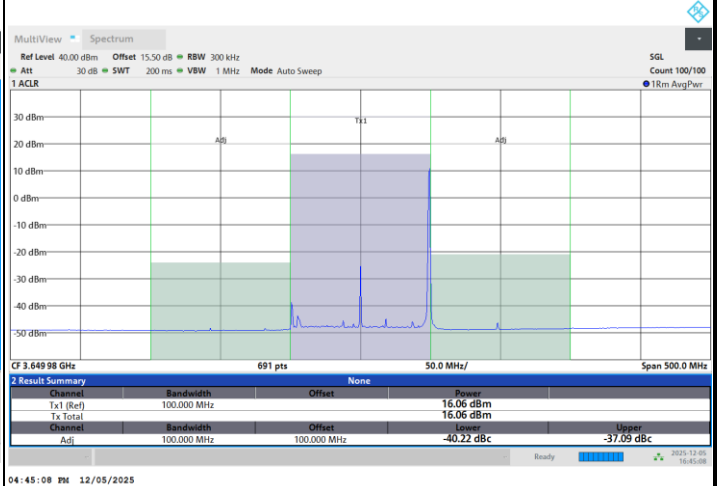
FR1 n48 / 100MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

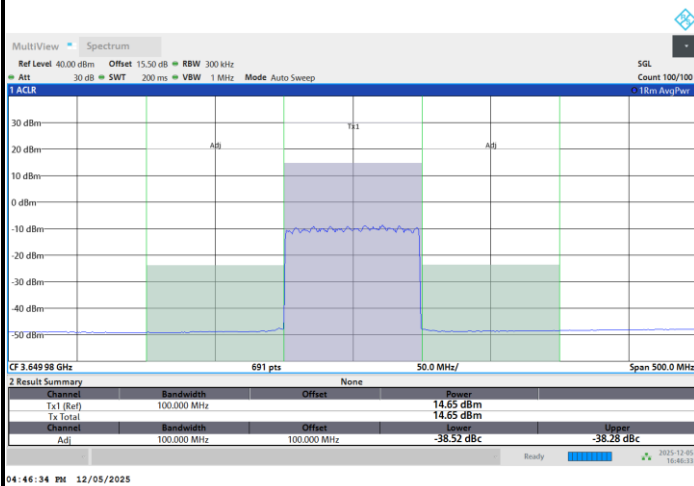
1RB0



1RBmax



Full RB





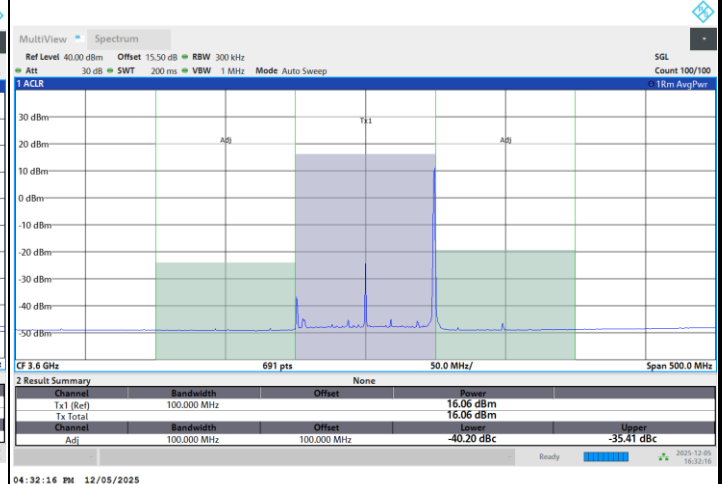
FR1 n48 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel

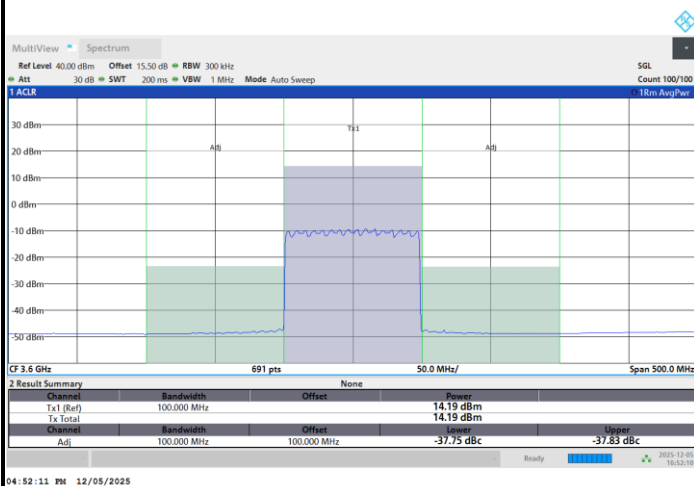
1RB0



1RBmax



Full RB





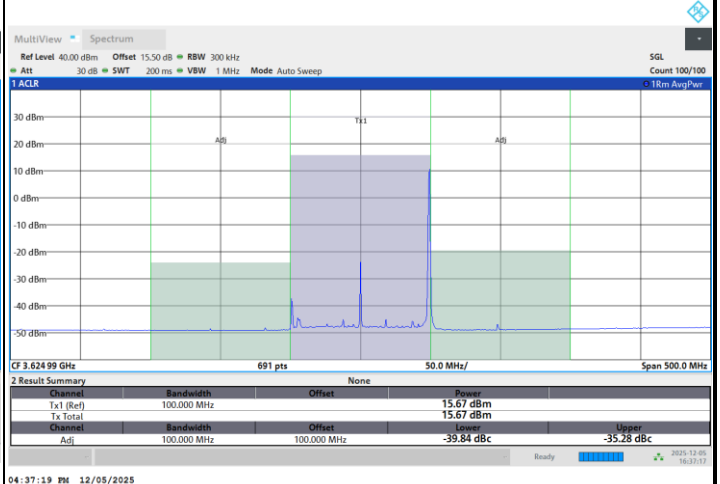
FR1 n48 / 100MHz / DFT-S OFDM / QPSK

Middle Channel

1RB0



1RBmax



Full RB





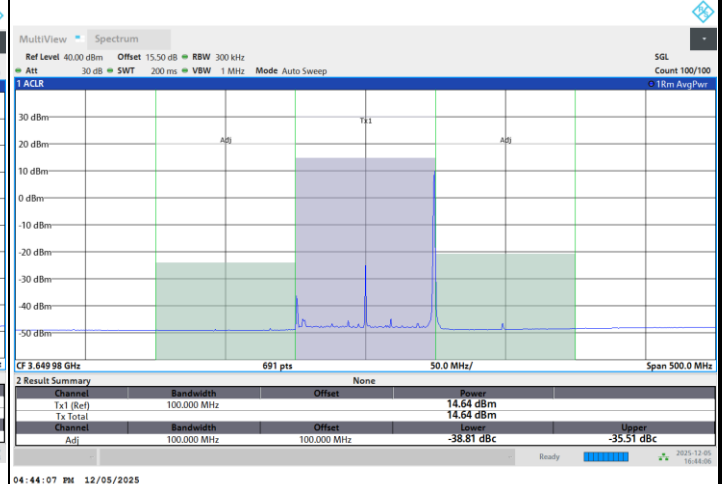
FR1 n48 / 100MHz / DFT-S OFDM / QPSK

Highest Channel

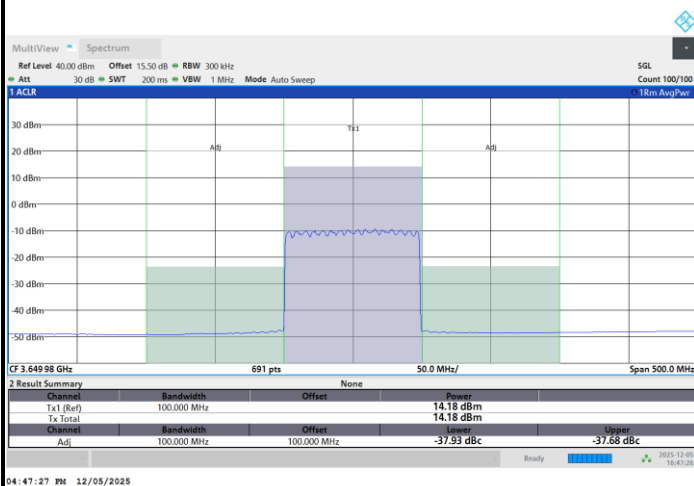
1RB0



1RBmax



Full RB

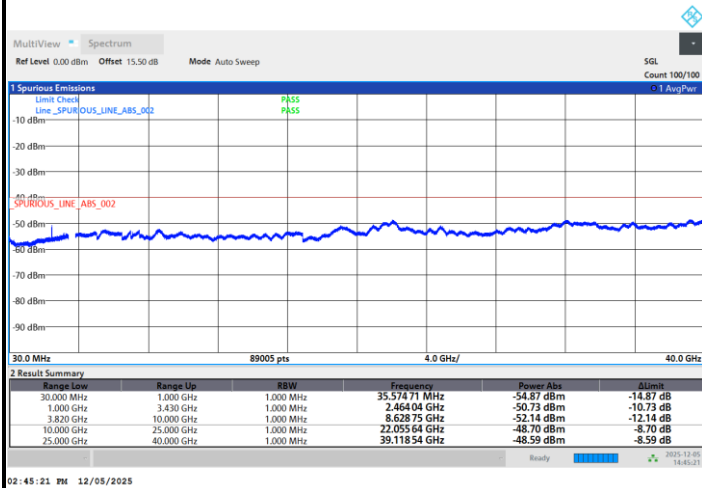




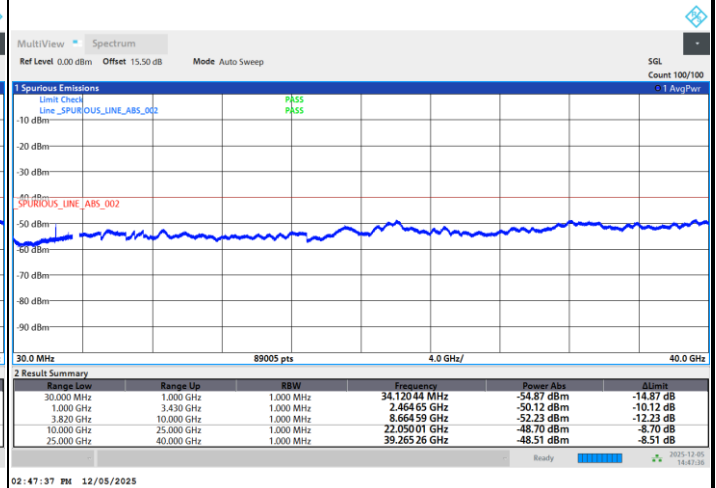
Conducted Spurious Emission

FR1 n48 / 10MHz / DFT-S OFDM / QPSK / 1RB1

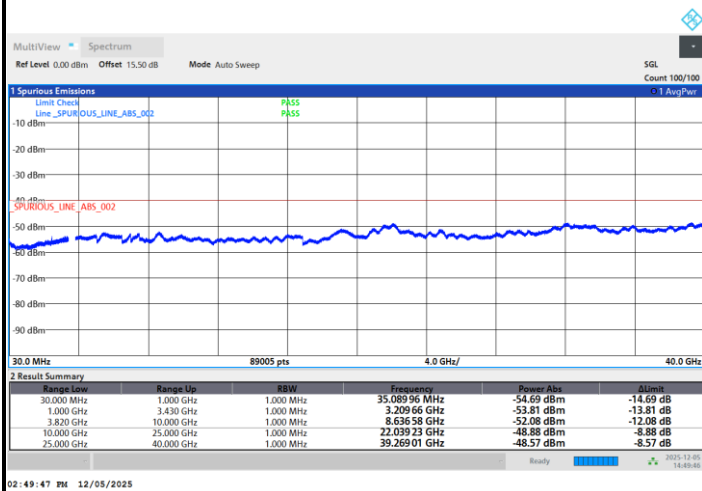
Lowest Channel



Middle Channel



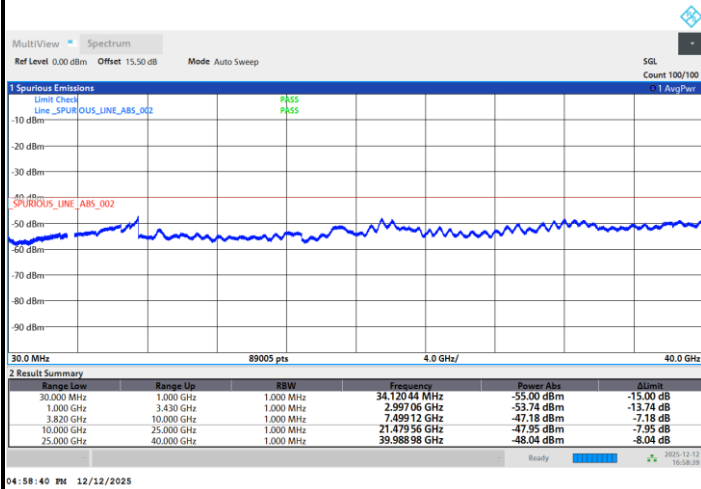
Highest Channel



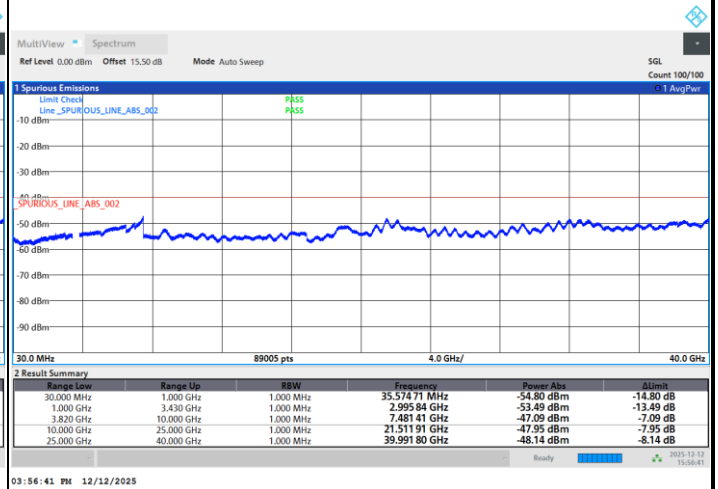


FR1 n48 / 15MHz / DFT-S OFDM / QPSK / 1RB1

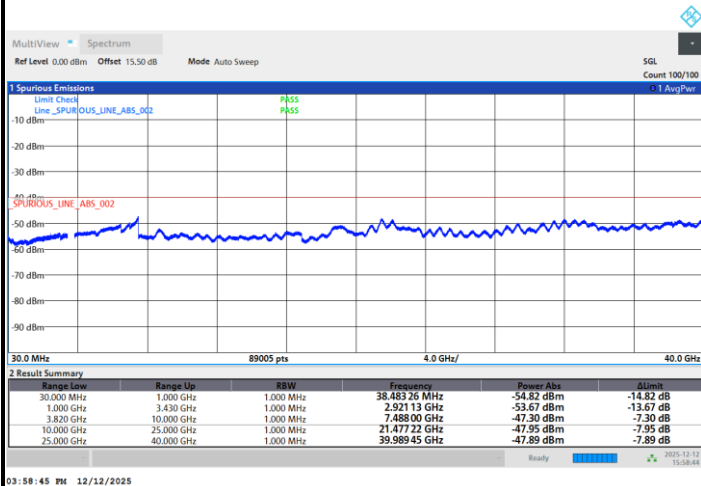
Lowest Channel



Middle Channel



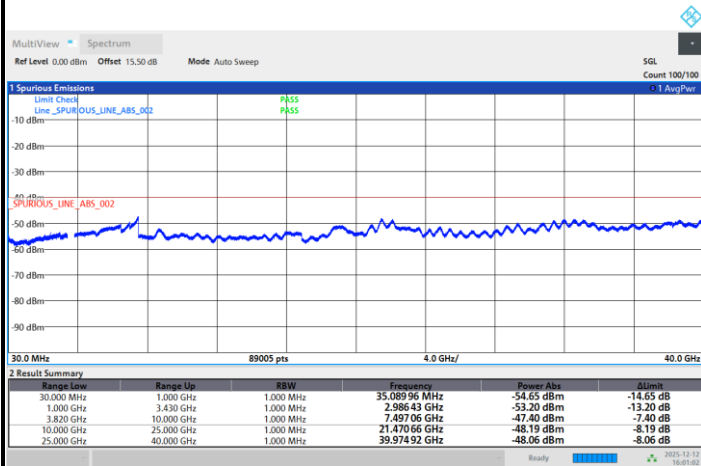
Highest Channel





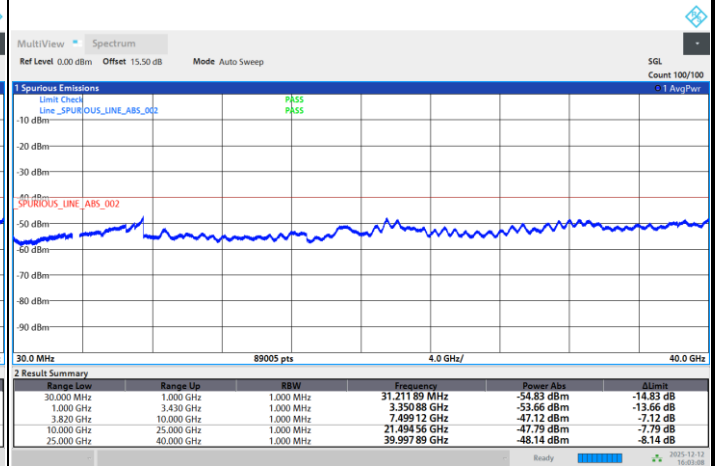
FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



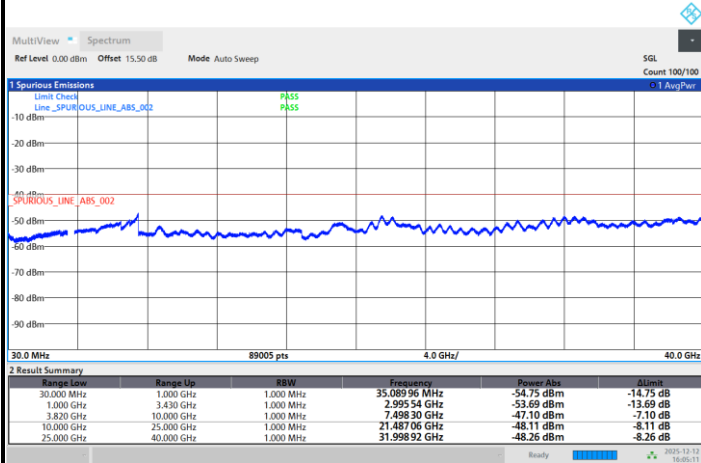
04:01:03 PM 12/12/2025

Middle Channel



04:03:08 PM 12/12/2025

Highest Channel

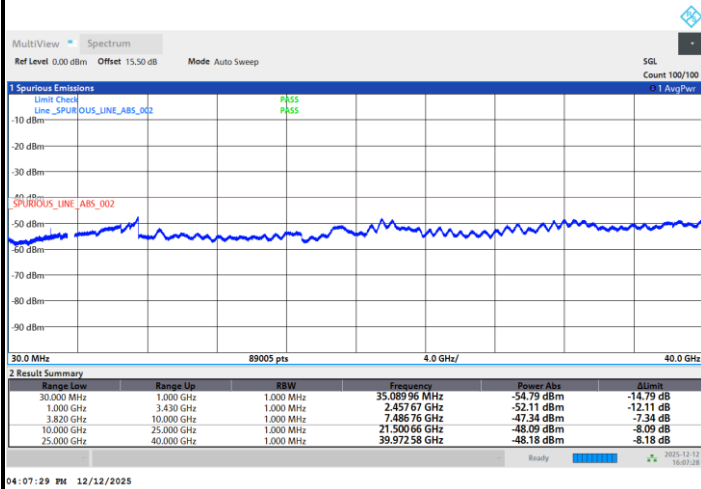


04:05:12 PM 12/12/2025



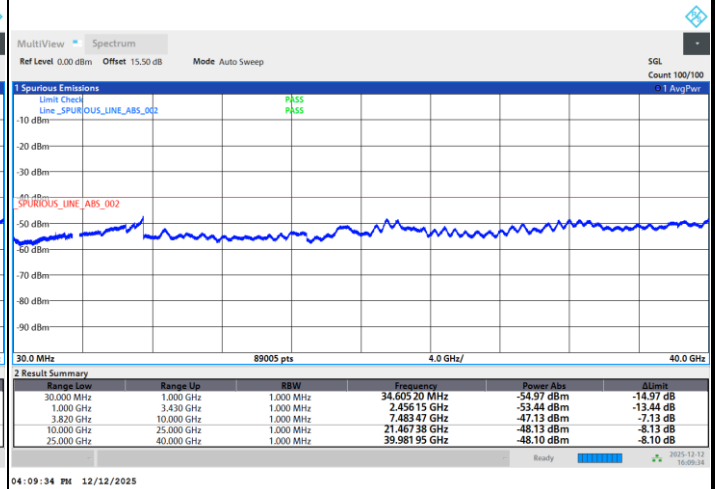
FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



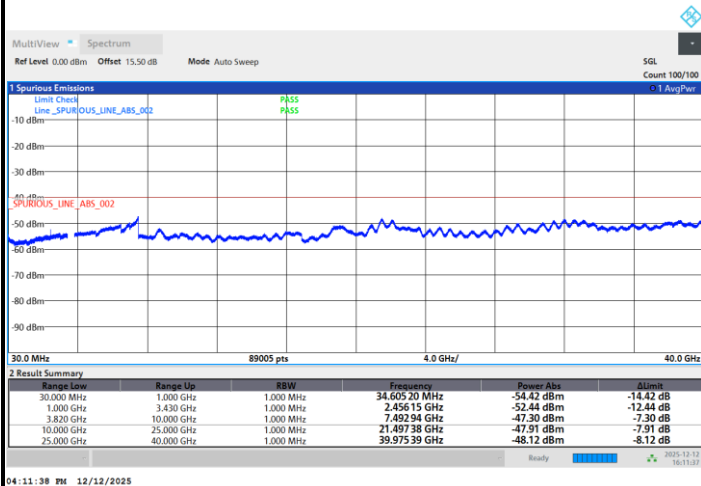
04:07:29 PM 12/12/2025

Middle Channel



04:09:34 PM 12/12/2025

Highest Channel

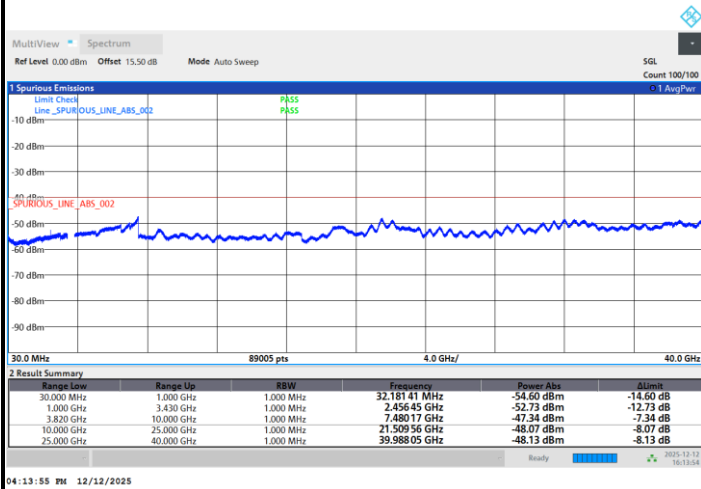


04:11:38 PM 12/12/2025



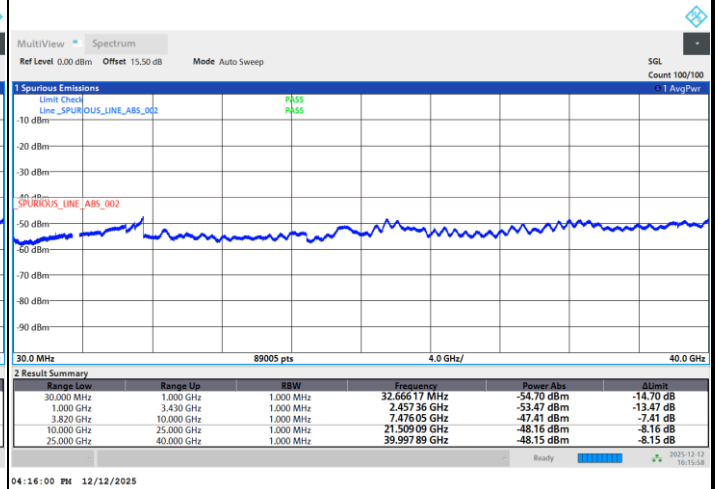
FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



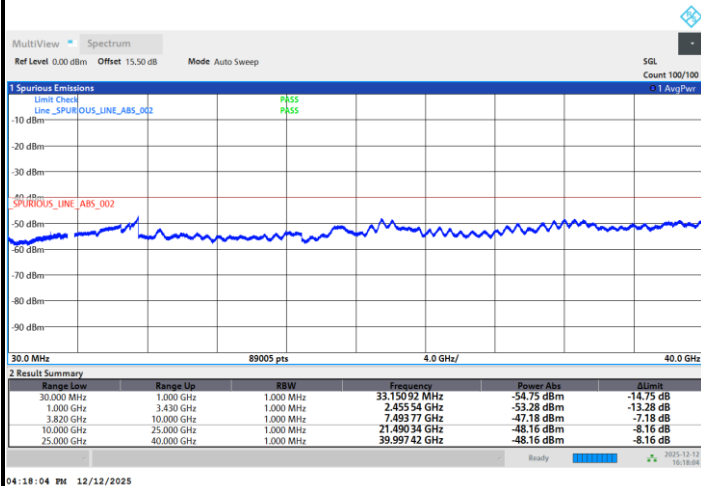
04:13:55 PM 12/12/2025

Middle Channel



04:16:00 PM 12/12/2025

Highest Channel

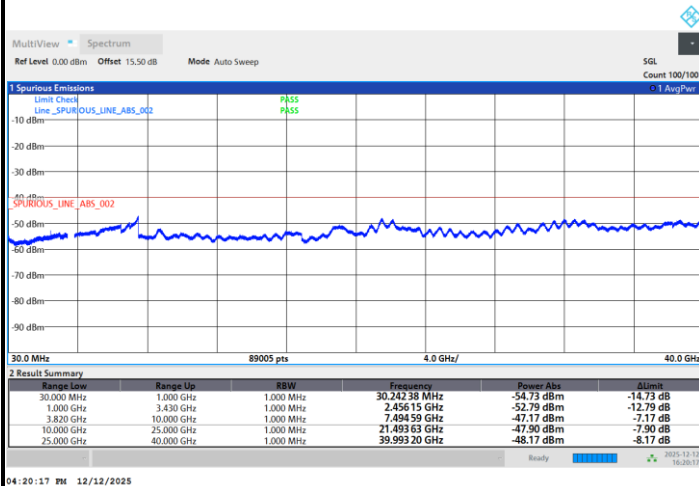


04:18:04 PM 12/12/2025



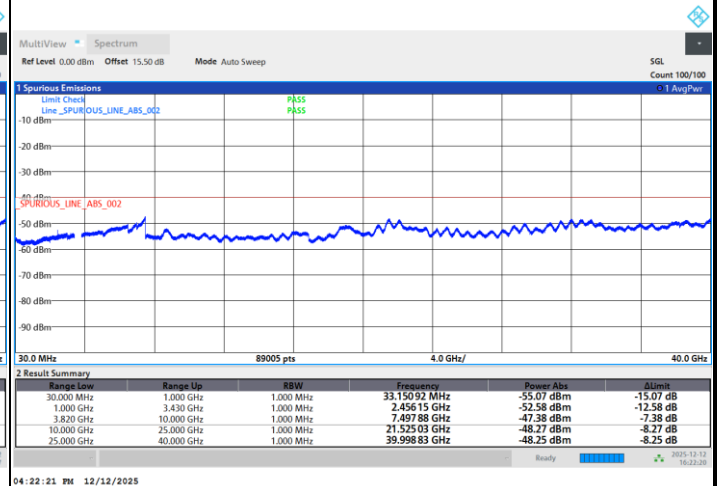
FR1 n48 / 50MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



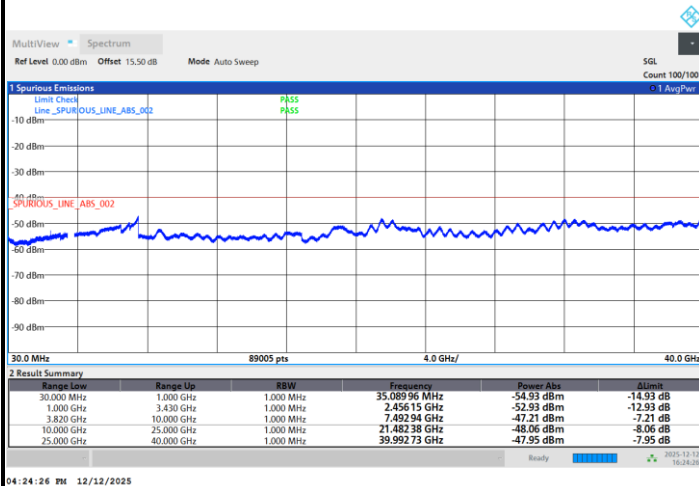
04:20:17 PM 12/12/2025

Middle Channel



04:22:21 PM 12/12/2025

Highest Channel

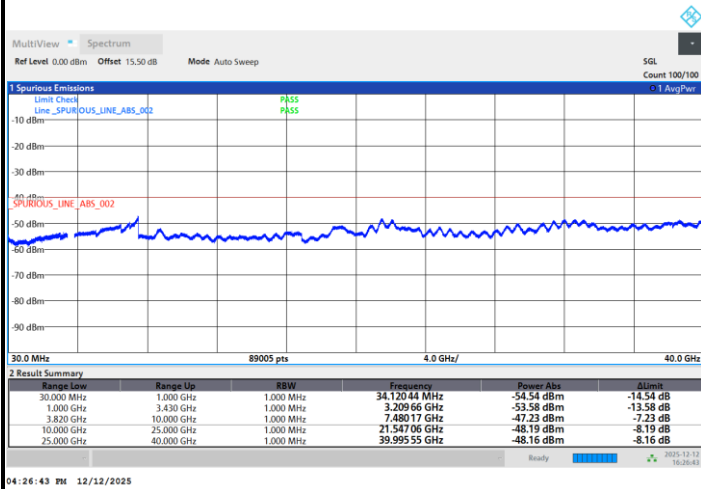


04:24:26 PM 12/12/2025



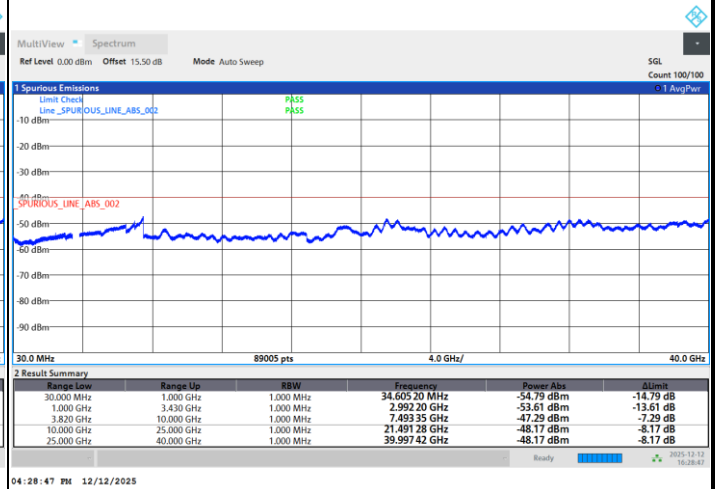
FR1 n48 / 60MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



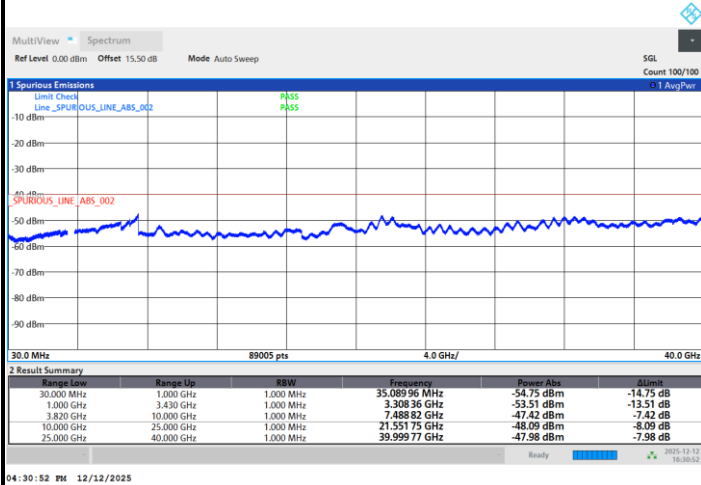
04:26:43 PM 12/12/2025

Middle Channel



04:28:47 PM 12/12/2025

Highest Channel

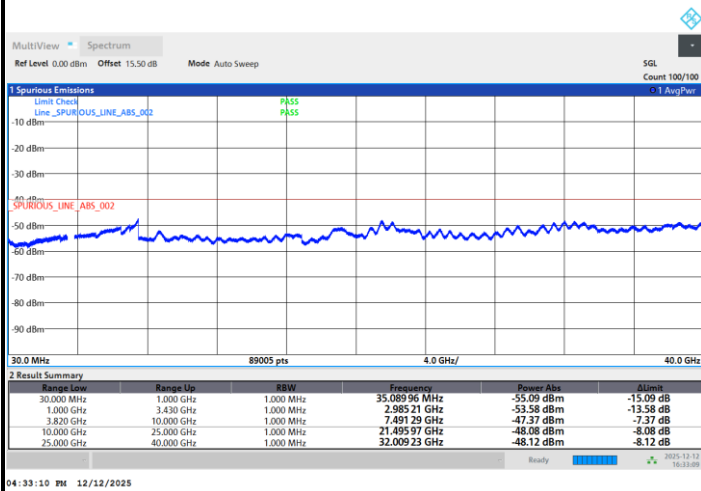


04:30:52 PM 12/12/2025



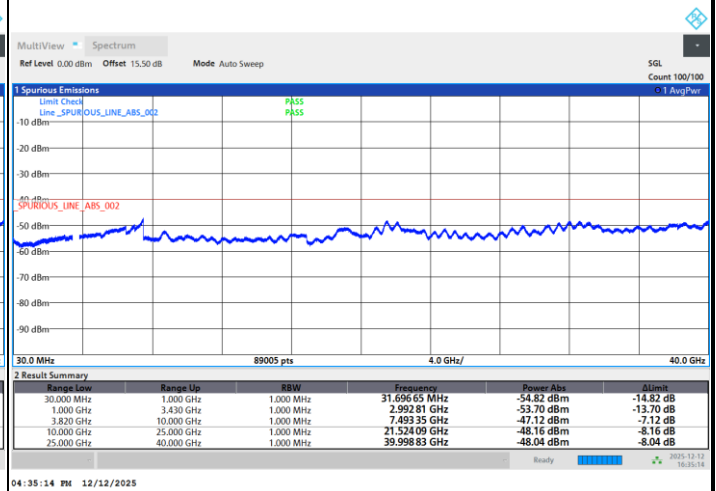
FR1 n48 / 70MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



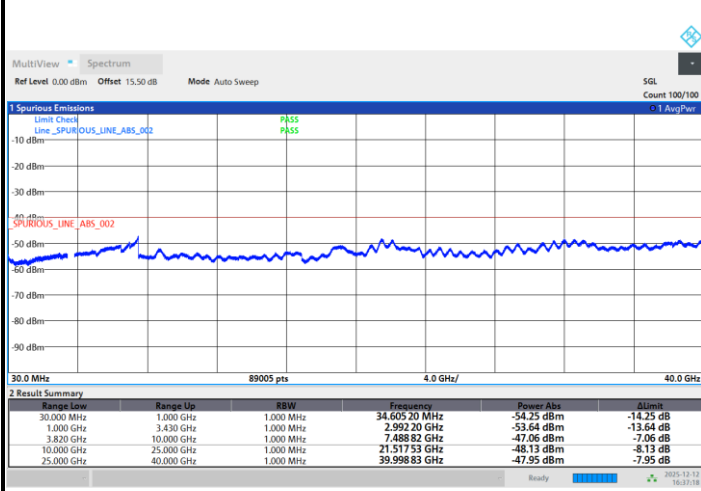
04:33:10 PM 12/12/2025

Middle Channel



04:35:14 PM 12/12/2025

Highest Channel

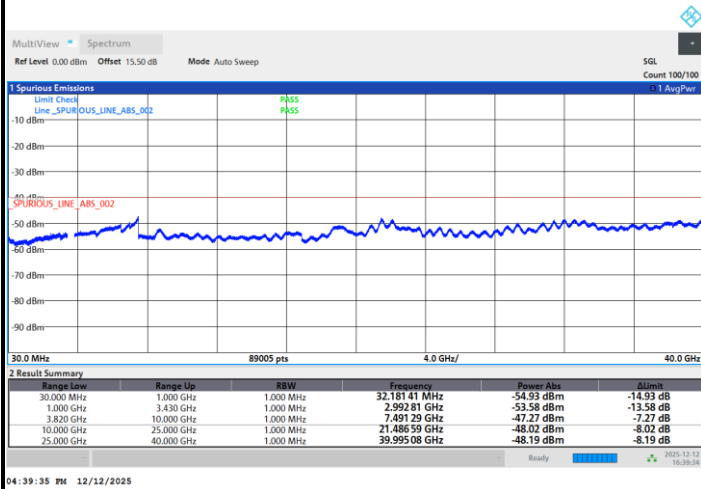


04:37:19 PM 12/12/2025



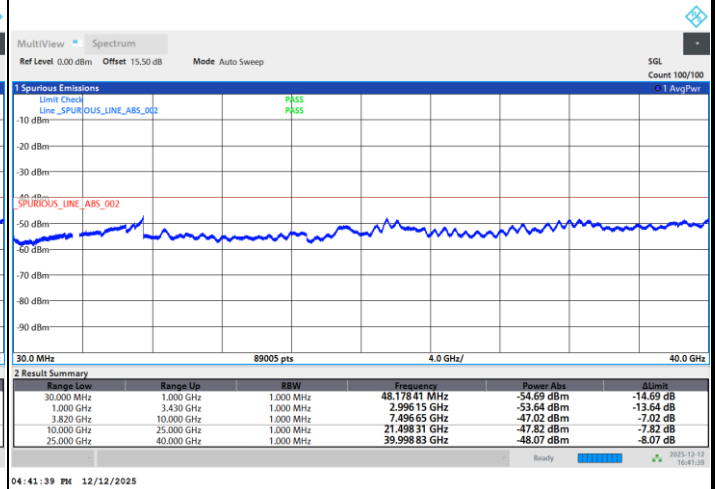
FR1 n48 / 80MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



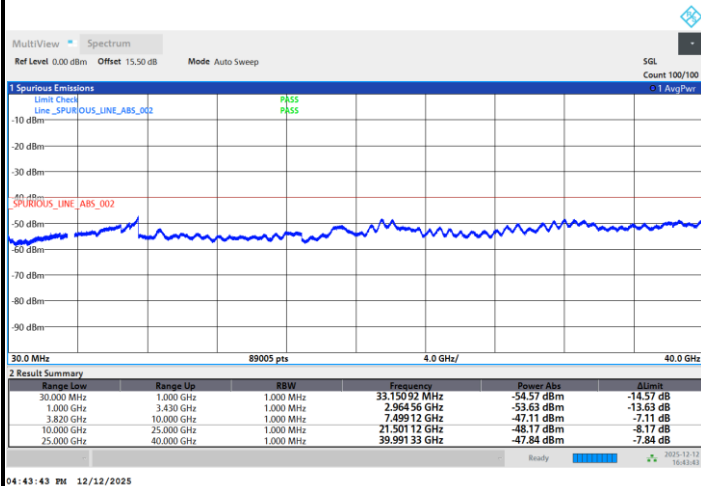
04:39:35 PM 12/12/2025

Middle Channel



04:41:39 PM 12/12/2025

Highest Channel

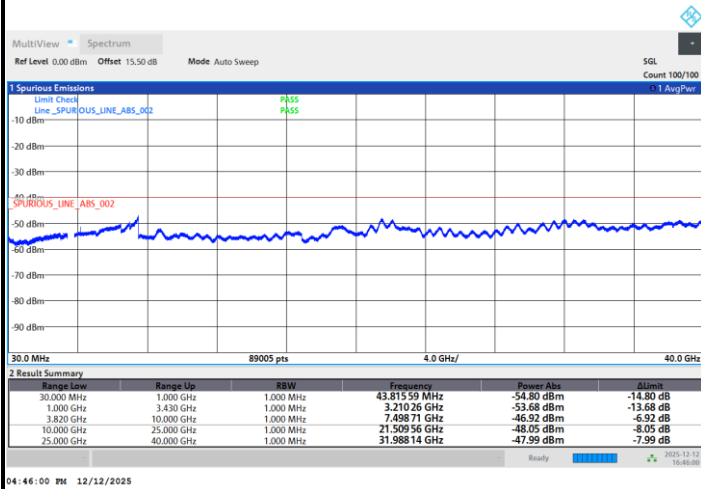


04:43:43 PM 12/12/2025



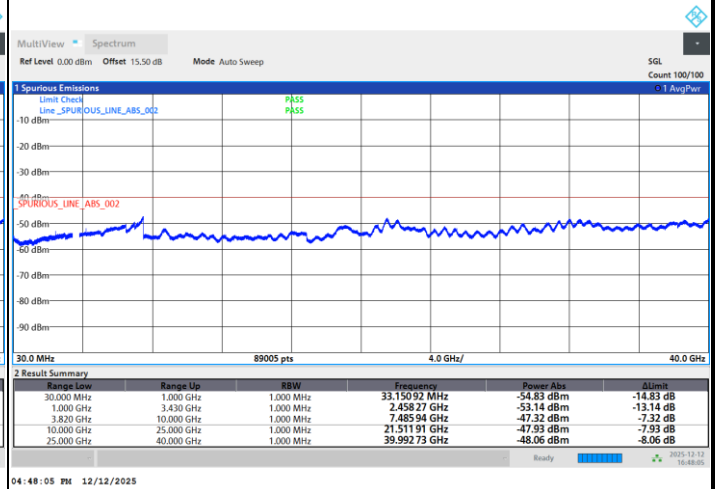
FR1 n48 / 90MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



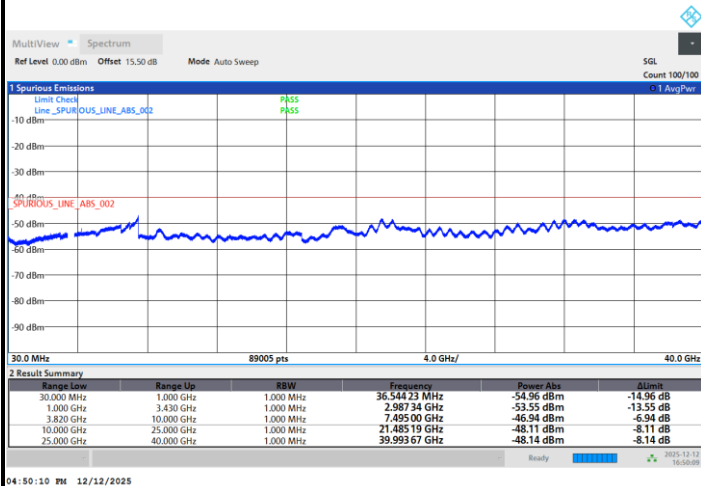
04:46:00 PM 12/12/2025

Middle Channel



04:48:05 PM 12/12/2025

Highest Channel

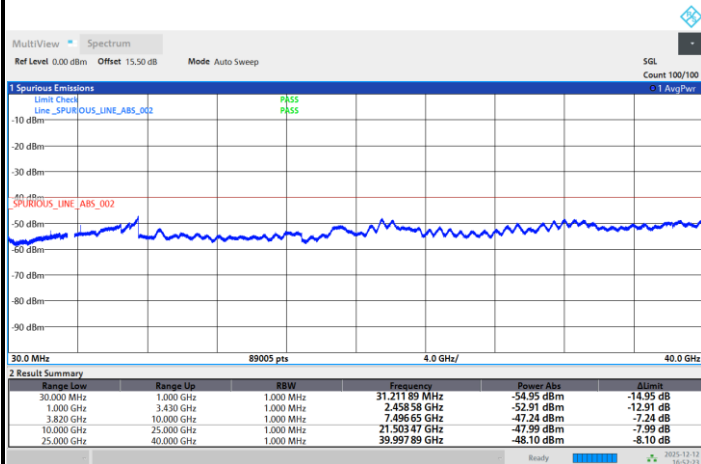


04:50:10 PM 12/12/2025



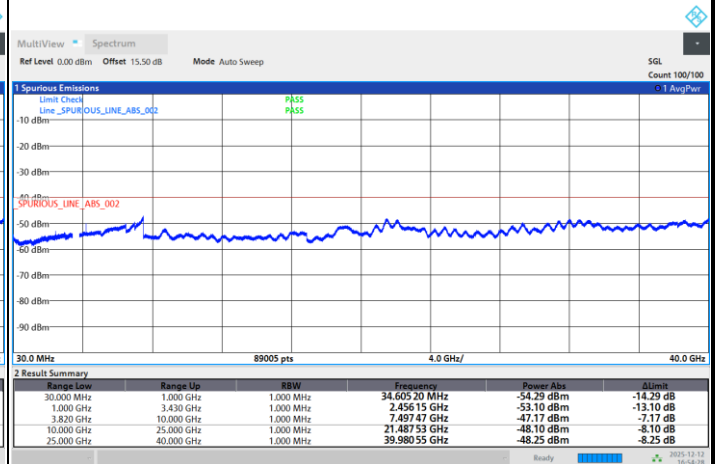
FR1 n48 / 100MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



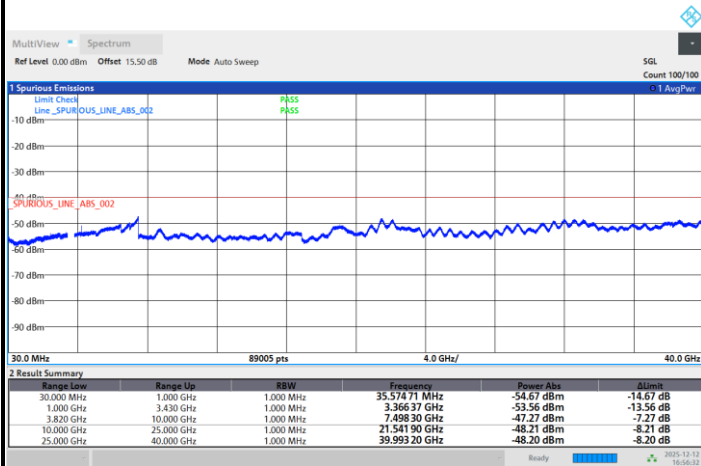
04:52:23 PM 12/12/2025

Middle Channel



04:54:28 PM 12/12/2025

Highest Channel



04:56:33 PM 12/12/2025

Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0021	7.6	Yes	PASS
40	Normal Voltage	0.0030	11	Yes	
30	Normal Voltage	0.0011	-4	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0020	7.4	Yes	
0	Normal Voltage	0.0028	10.3	Yes	
-10	Normal Voltage	0.0017	6.1	Yes	
-20	Normal Voltage	0.0028	10	Yes	
-30	Normal Voltage	0.0009	3.2	Yes	
20	Maximum Voltage	0.0017	-6.3	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0007	2.6	Yes	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.05 V. ; Maximum Voltage = 4.4 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 n48B_Part96****26dB Bandwidth**

Mode	FR1 n48B : 26dB BW(MHz) / DFT-S OFDM							
BW	10M15M		10M20M		10M30M		10M40M	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	26.66	25.32	31.01	30.75	40.49	39.29	48.20	47.85
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	25.28		29.97		39.34		47.82	
BW	10M50M		15M10M		15M15M		15M20M	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	58.83	58.23	25.22	25.92	29.53	29.57	34.28	35.06
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	57.96		25.22		29.49		34.31	
BW	15M30M		15M40M		20M10M		20M15M	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	43.46	43.64	51.99	52.09	30.87	30.72	34.37	34.36
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	43.59		52.06		29.98		34.30	
BW	20M20M		20M30M		20M40M		20M50M	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	40.46	41.53	49.03	49.21	57.70	57.70	69.29	68.15
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	39.83		49.07		57.69		67.93	

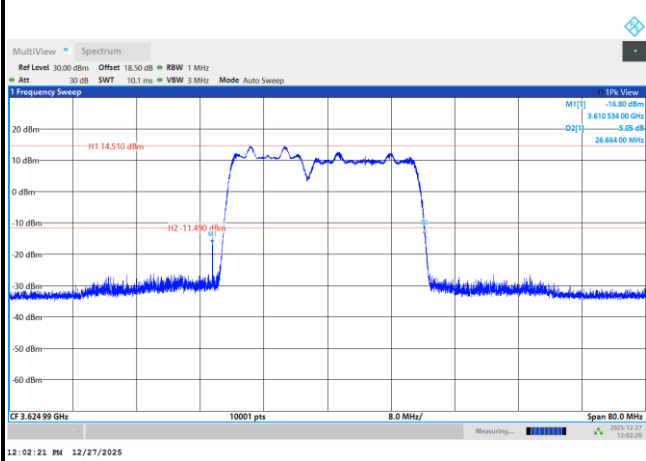


Mode	FR1 n48B : 26dB BW(MHz) / DFT-S OFDM							
BW	30M10M		30M20M		30M30M		30M40M	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	39.25	39.69	48.97	50.10	58.21	58.18	66.75	66.74
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	40.00		49.02		58.36		66.92	
BW	30M50M		40M10M		40M20M		40M30M	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	76.93	77.10	47.73	48.21	57.63	57.64	66.74	66.91
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	77.08		47.68		57.63		66.81	
BW	40M40M		40M50M					
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK				
Middle CH	76.13	76.17	86.28	86.33				
Mod.	16QAM		16QAM					
Middle CH	76.11		86.33					

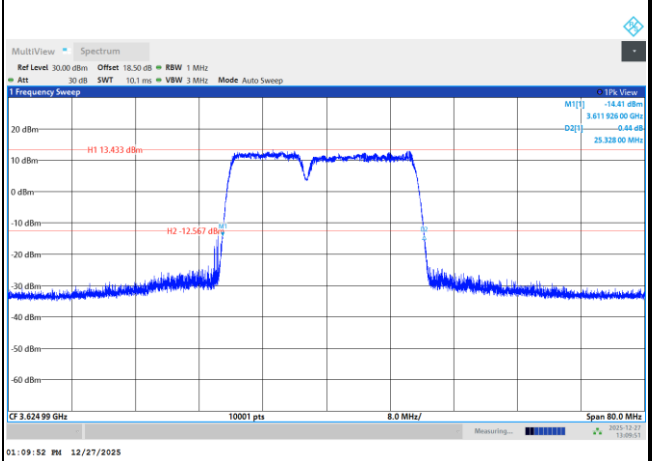


FR1 n48B / 10M15M / DFT-S OFDM / Middle Channel / Full RB

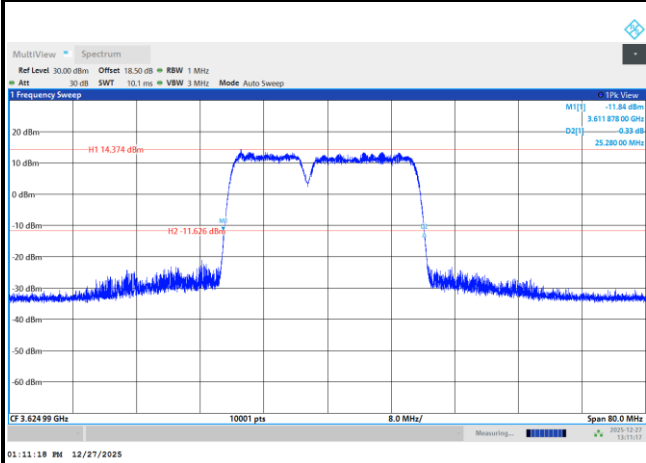
PI/2 BPSK



QPSK



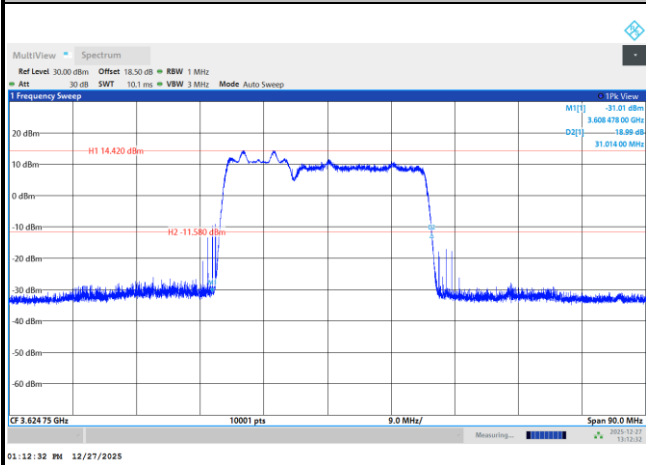
16QAM



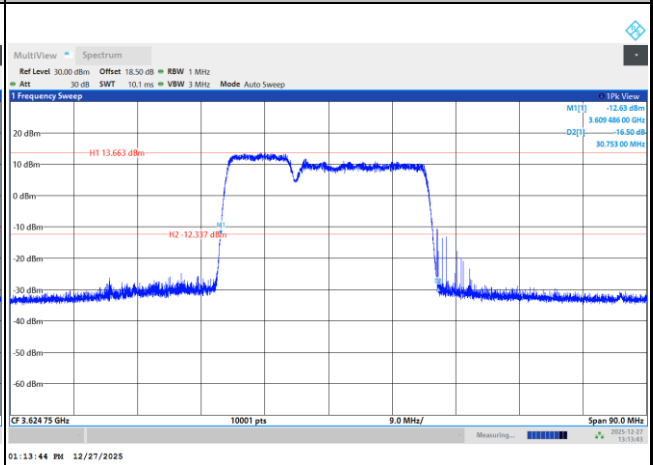


FR1 n48B / 10M20M / DFT-S OFDM / Middle Channel / Full RB

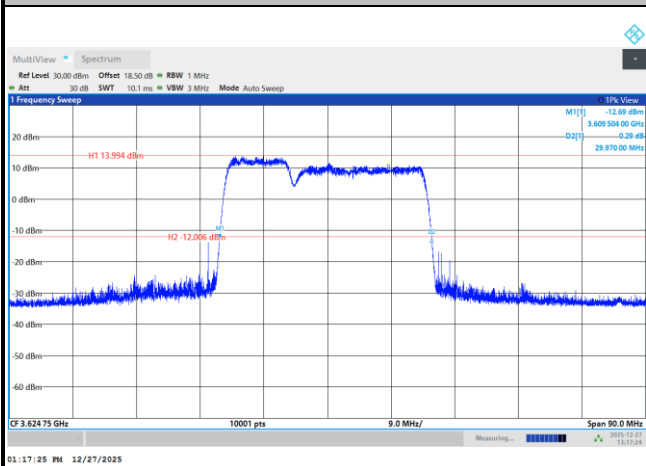
QPSK



QPSK



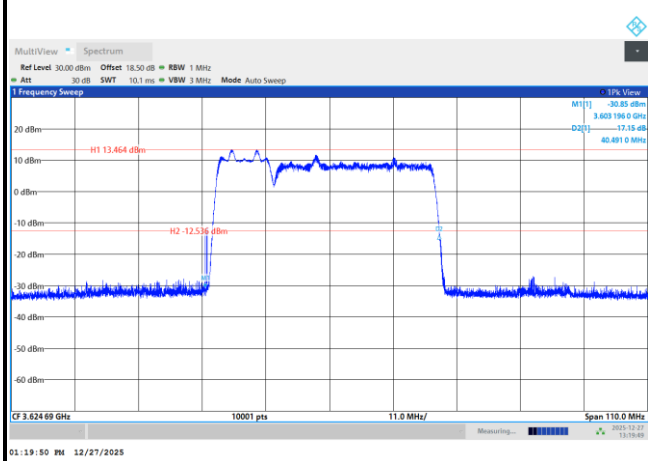
16QAM



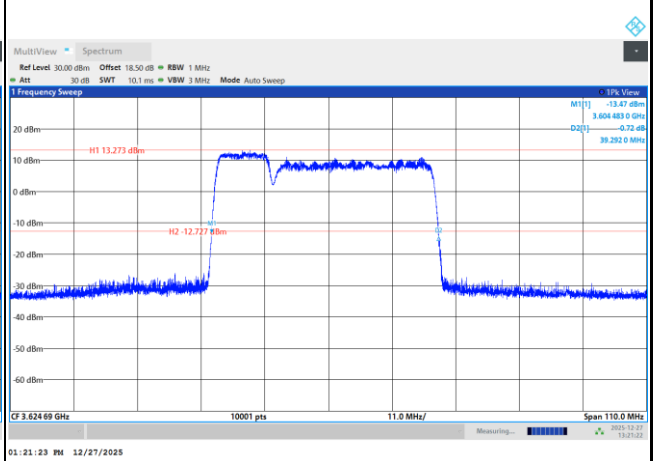


FR1 n48B / 10M30M / DFT-S OFDM / Middle Channel / Full RB

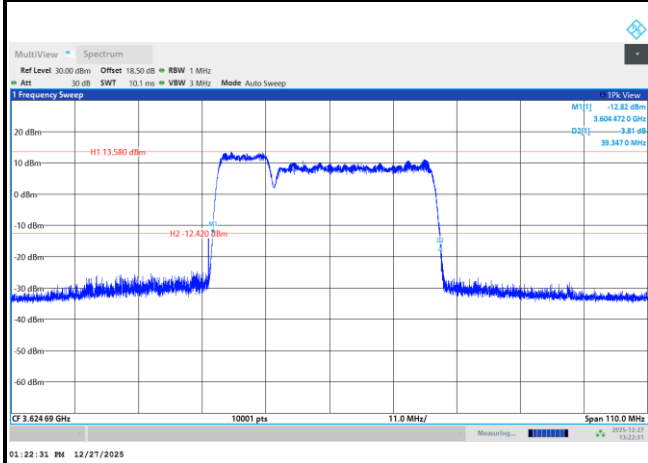
QPSK



QPSK



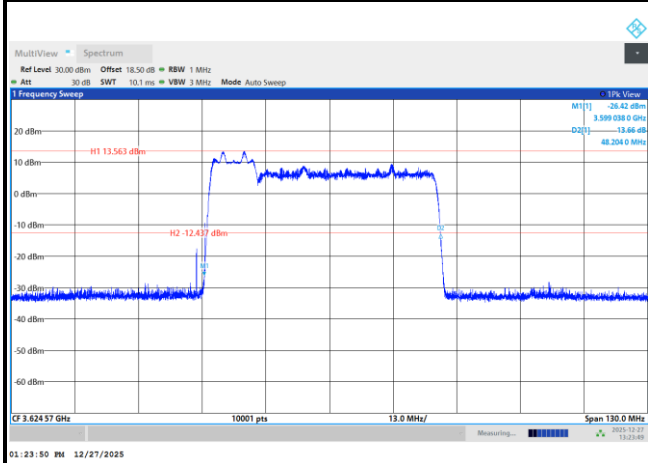
16QAM



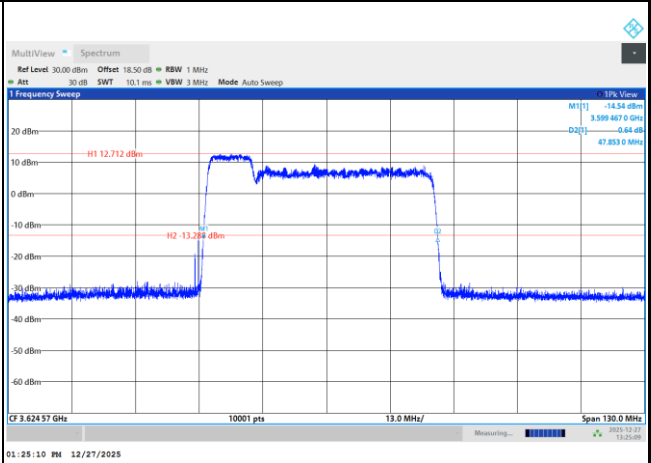


FR1 n48B / 10M40M / DFT-S OFDM / Middle Channel / Full RB

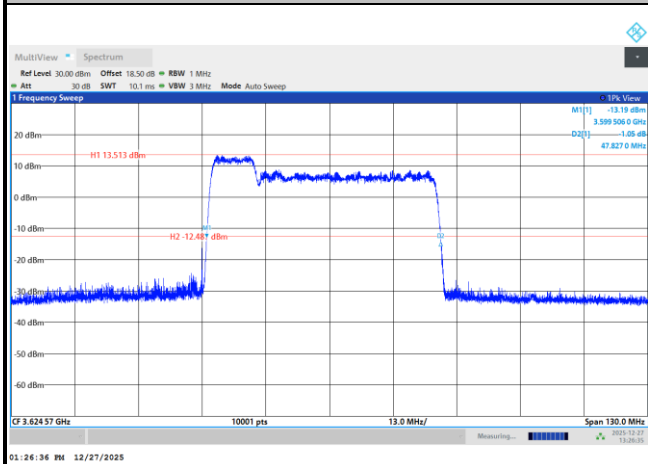
PI/2 BPSK



QPSK



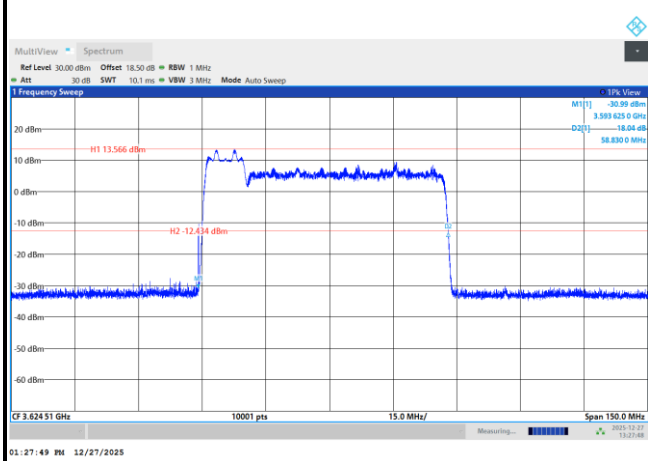
16QAM



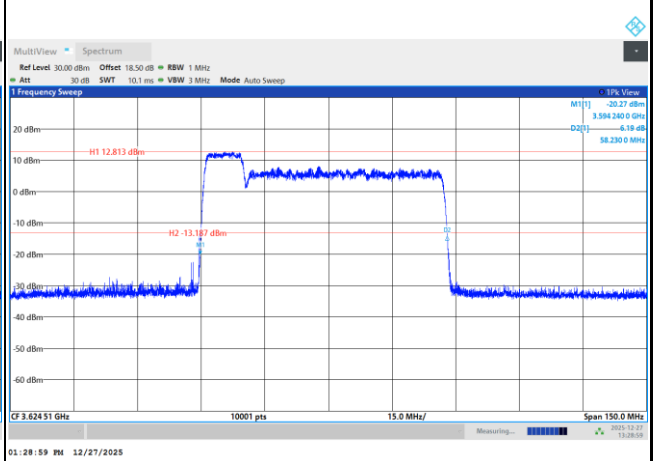


FR1 n48B / 10M50M / DFT-S OFDM / Middle Channel / Full RB

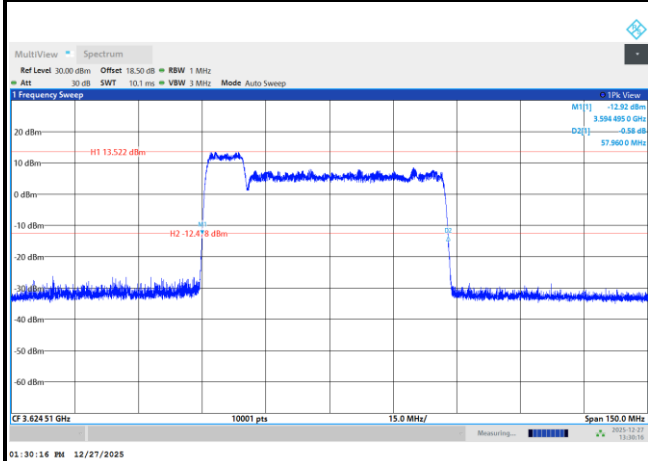
PI/2 BPSK



QPSK



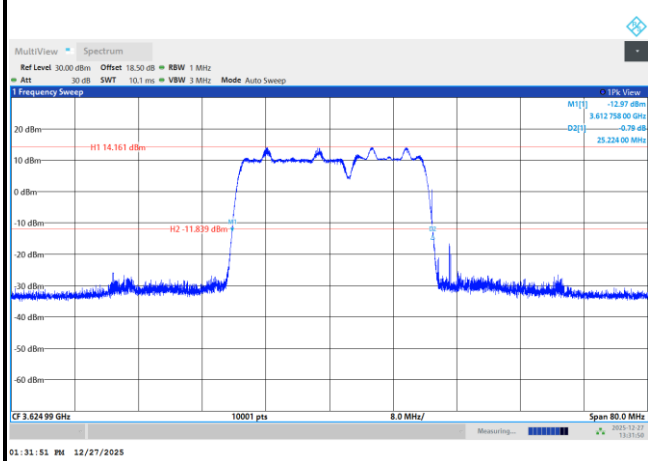
16QAM



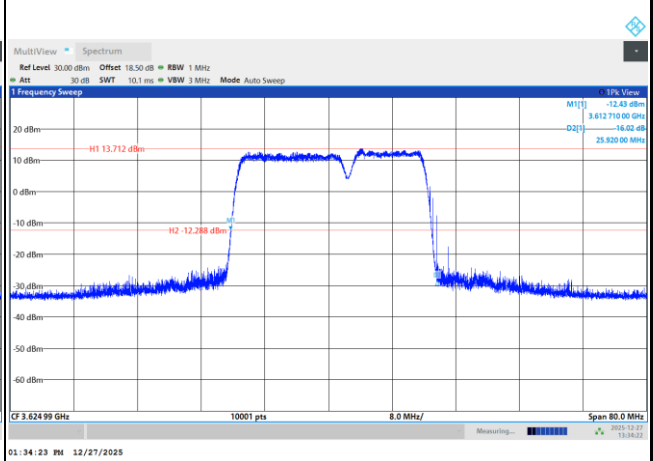


FR1 n48B / 15M10M/ DFT-S OFDM / Middle Channel / Full RB

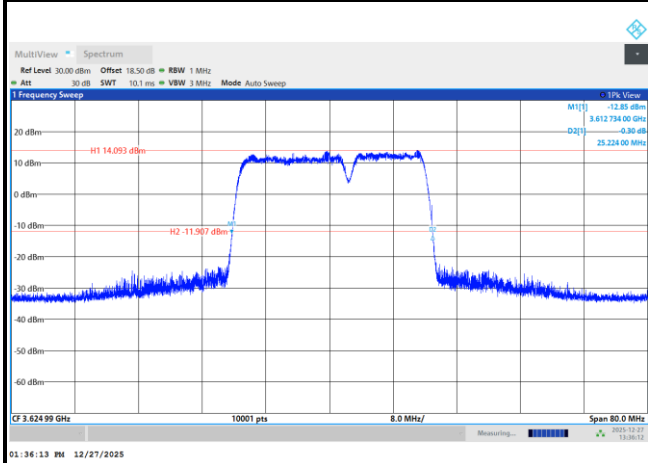
PI/2 BPSK



QPSK



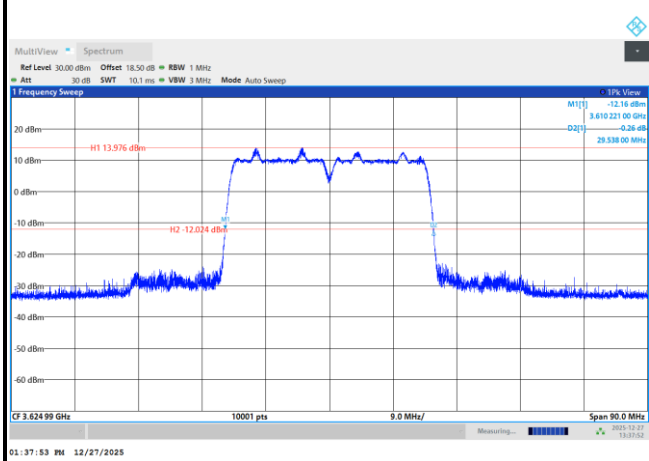
16QAM



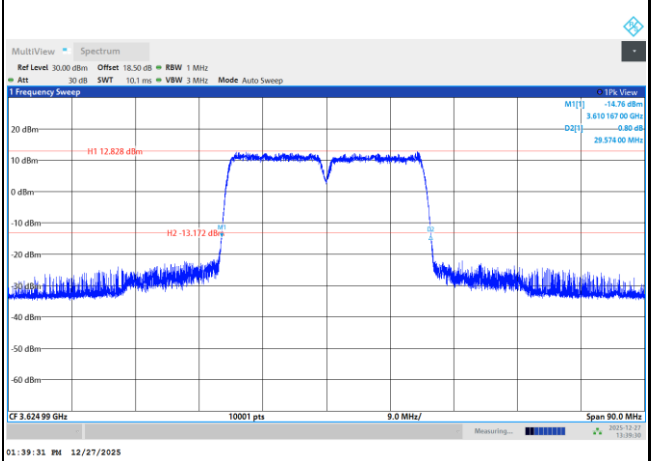


FR1 n48B / 15M15M/ DFT-S OFDM / Middle Channel / Full RB

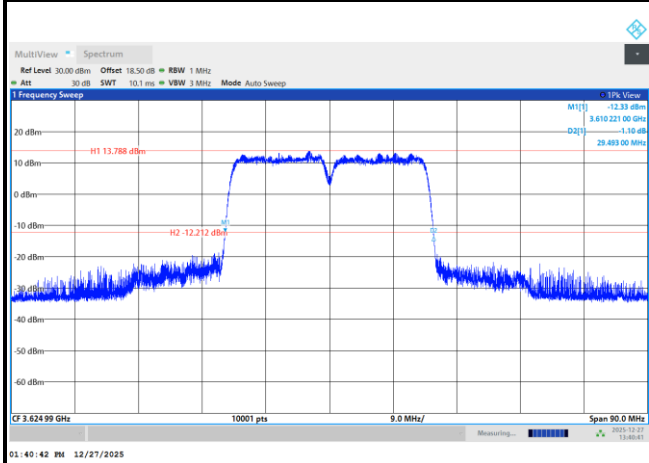
PI/2 BPSK

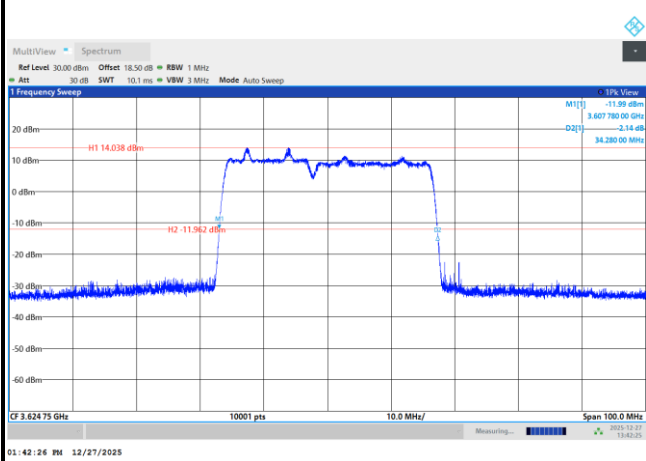


QPSK

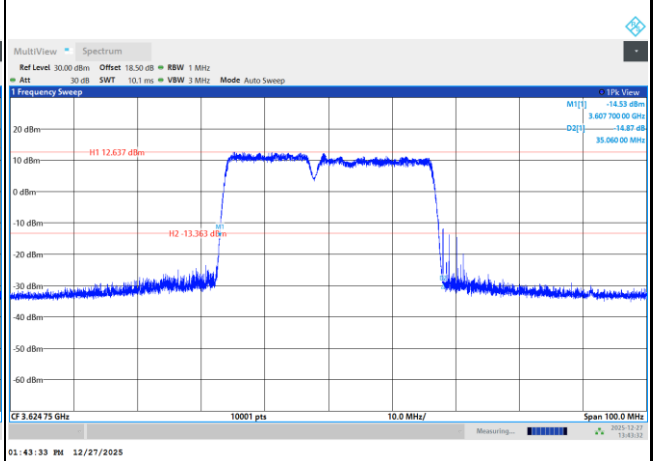


16QAM

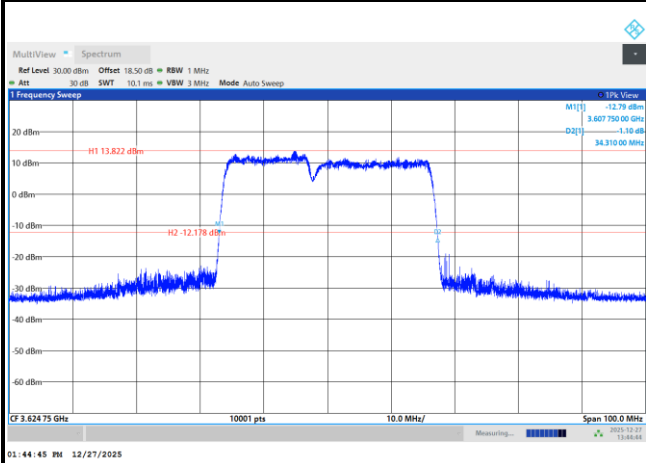


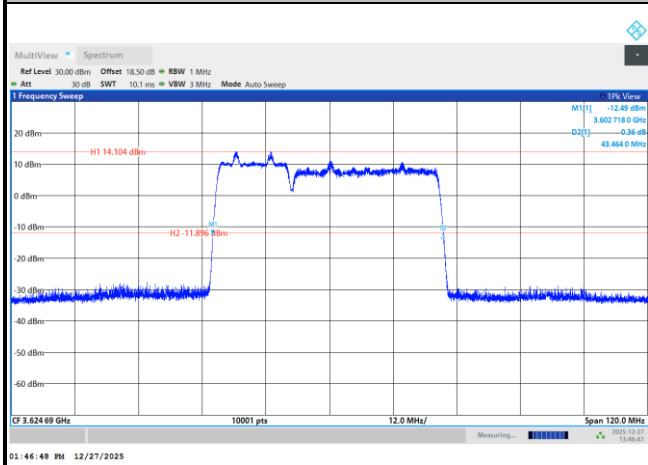
**PI/2 BPSK**

QPSK

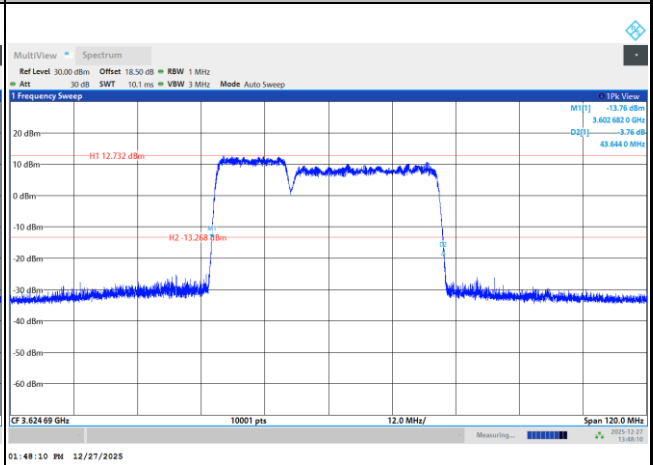


16QAM

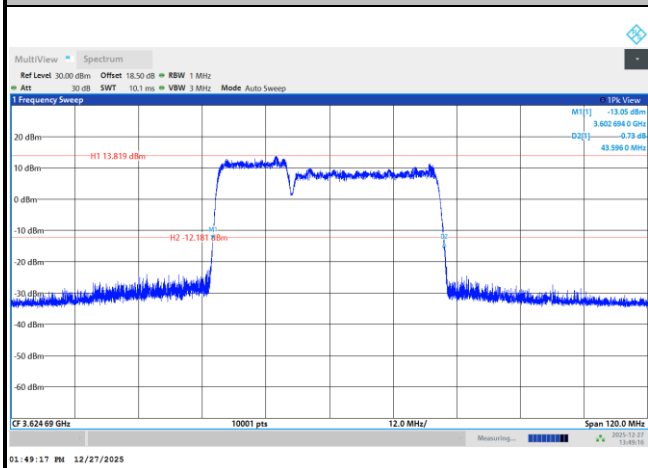


**FR1 n48B / 15M30M / DFT-S OFDM / Middle Channel / Full RB****PI/2 BPSK**

QPSK



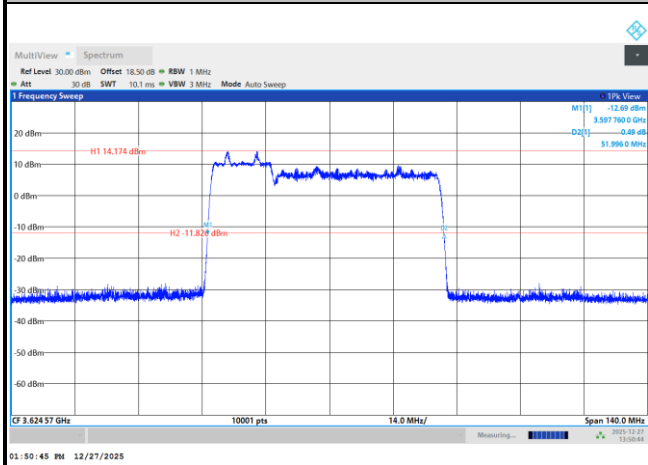
16QAM



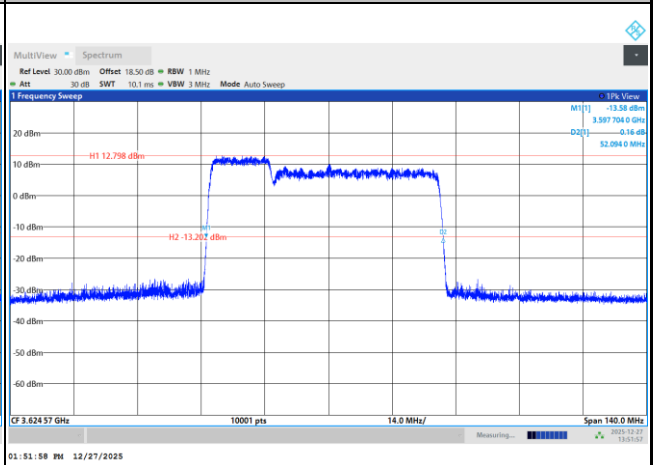


FR1 n48B / 15M40M / DFT-S OFDM / Middle Channel / Full RB

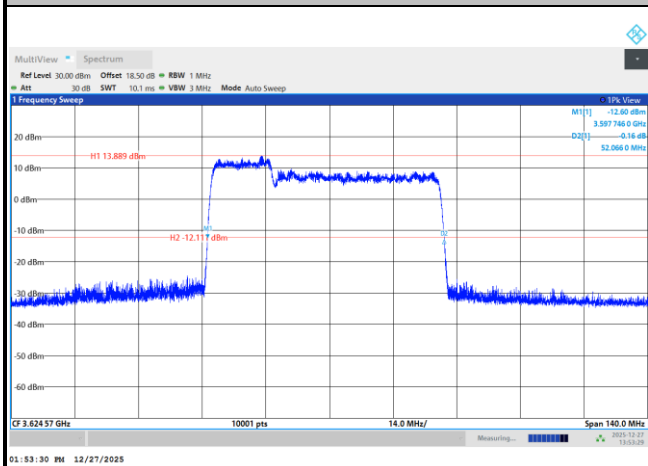
PI/2 BPSK



QPSK



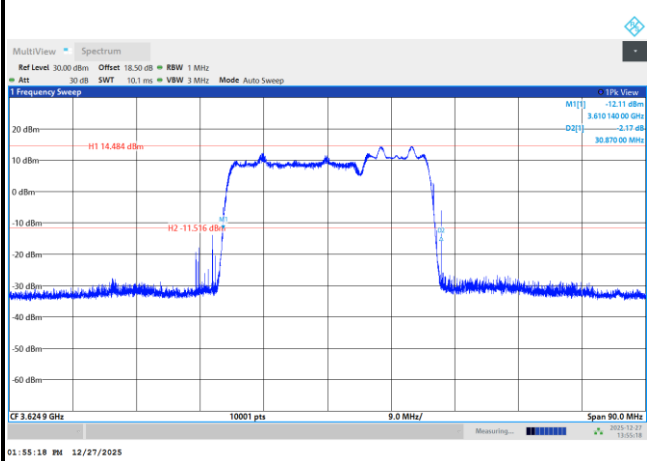
16QAM



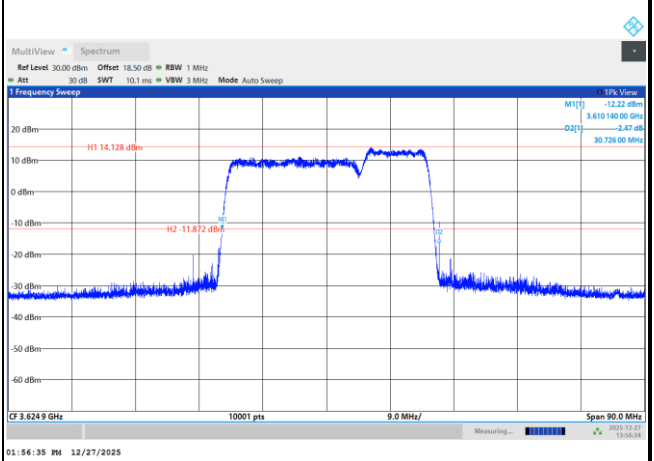


FR1 n48B / 20M10M / DFT-S OFDM / Middle Channel / Full RB

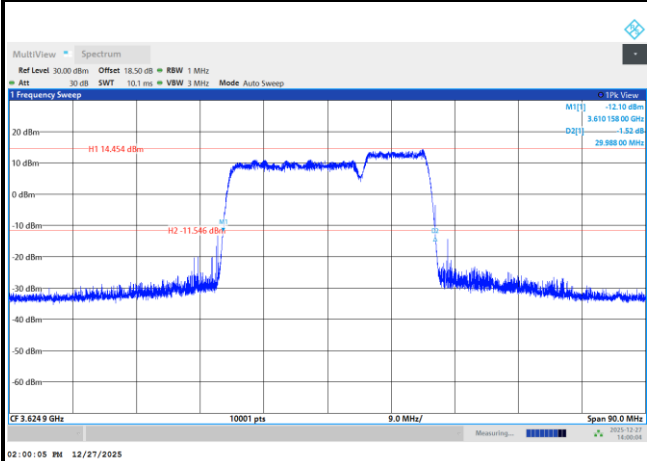
PI/2 BPSK

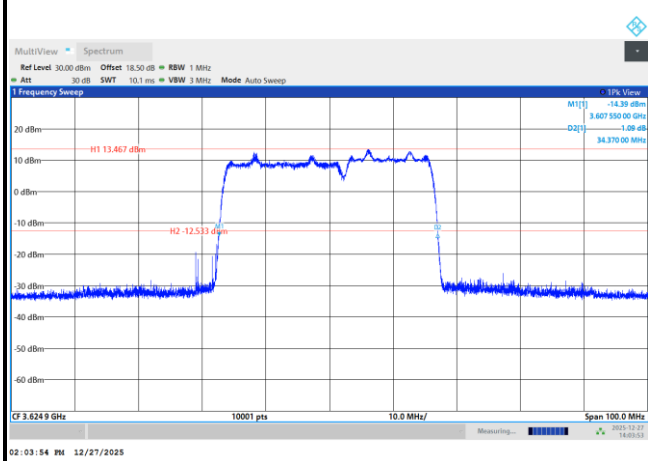


QPSK

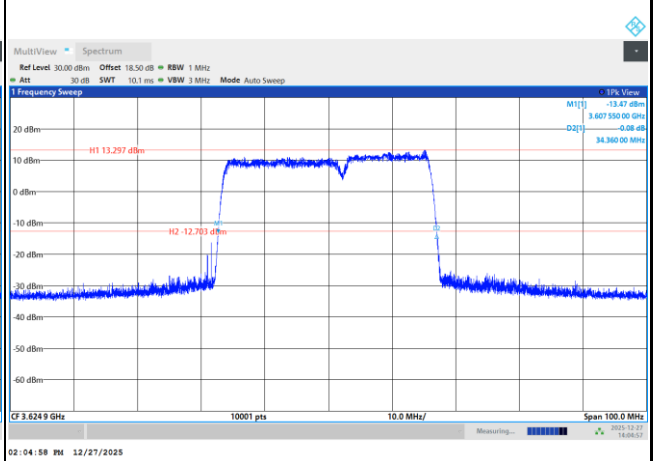


16QAM

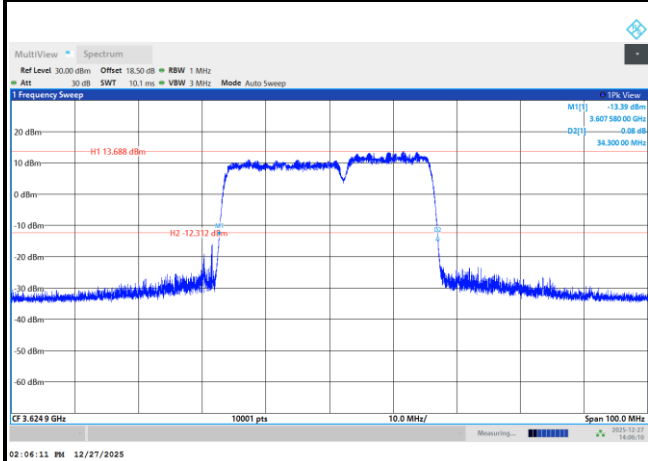


**FR1 n48B / 40M100 / DFT-S OFDM / Middle Channel / Full RB****PI/2 BPSK**

QPSK



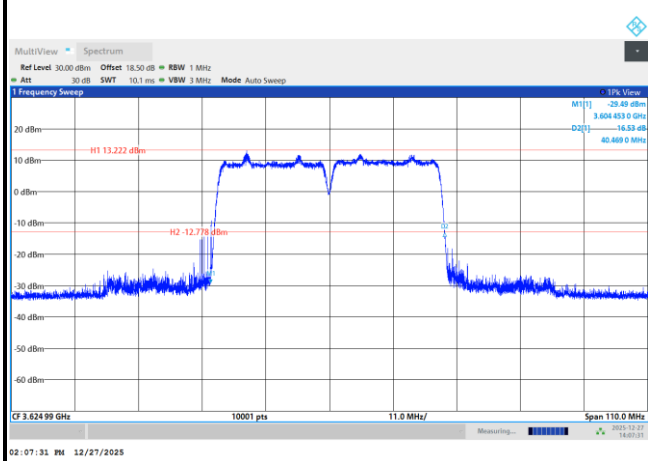
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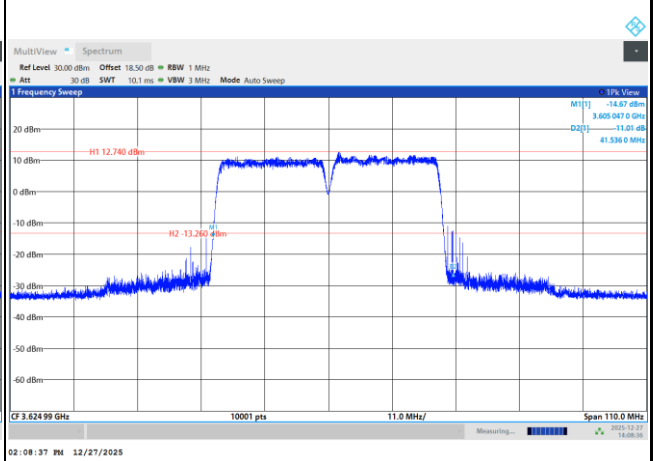


FR1 n48B / 20M20M / DFT-S OFDM / Middle Channel / Full RB

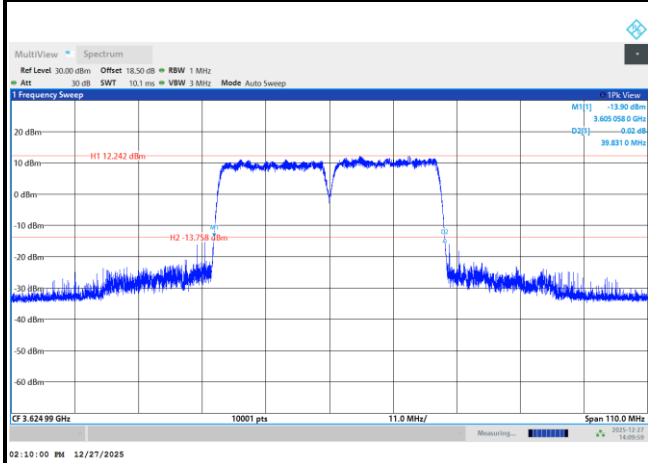
PI/2 BPSK



QPSK



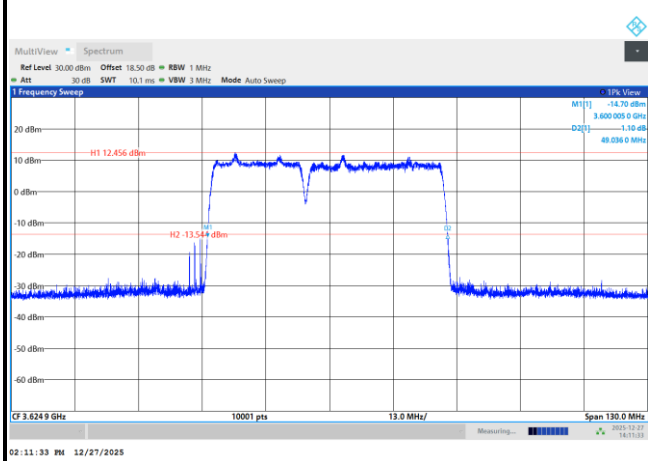
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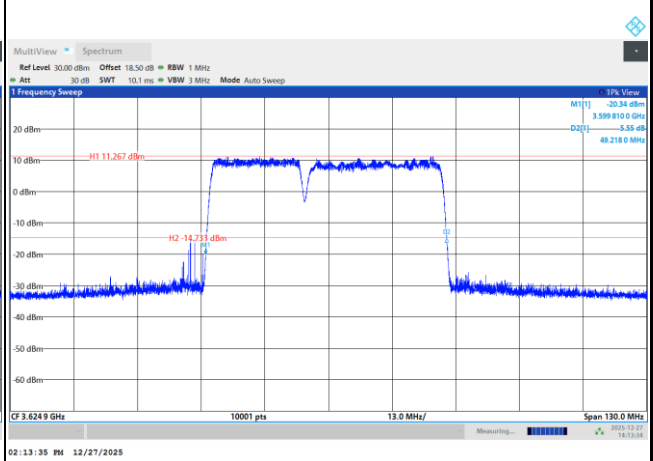


FR1 n48B / 20M30M / DFT-S OFDM / Middle Channel / Full RB

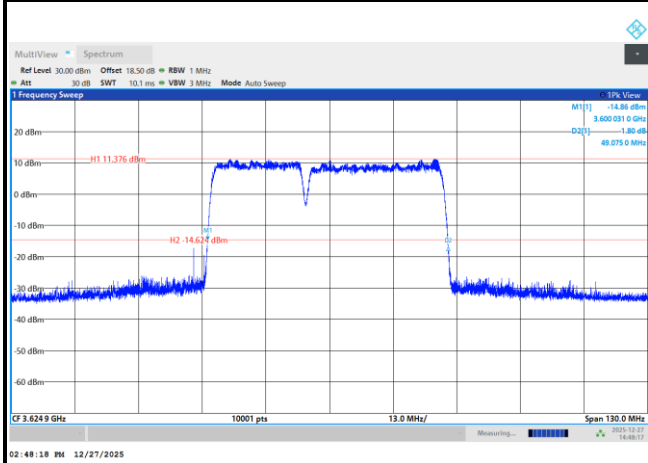
PI/2 BPSK



QPSK



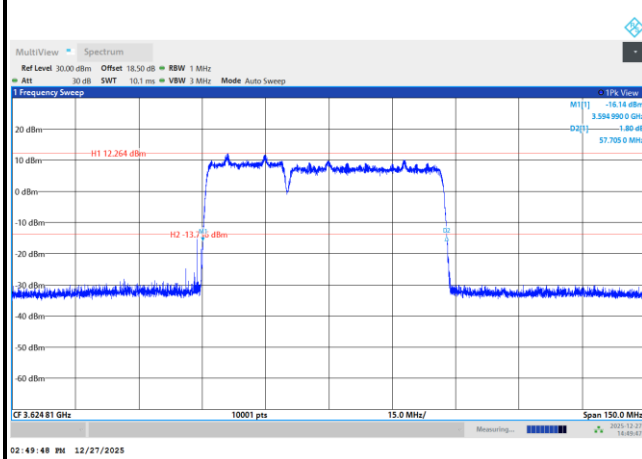
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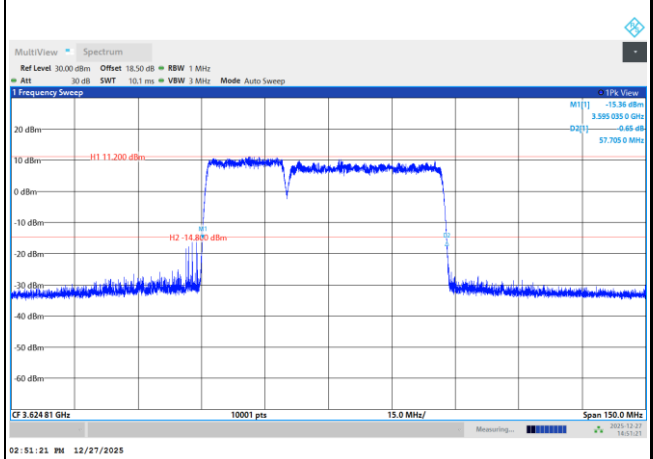


FR1 n48B / 20M40M / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



QPSK



16QAM

