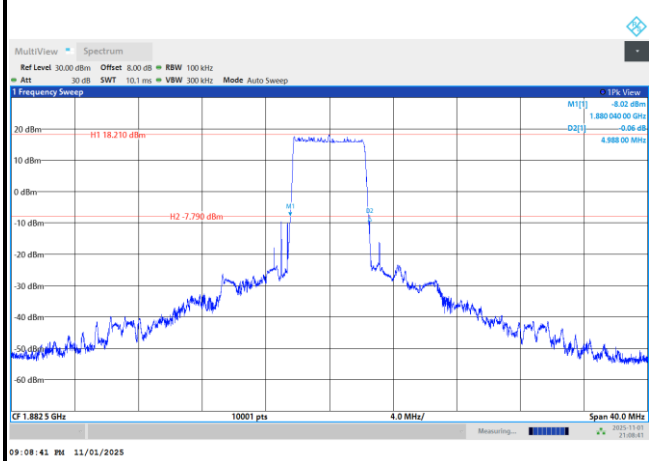


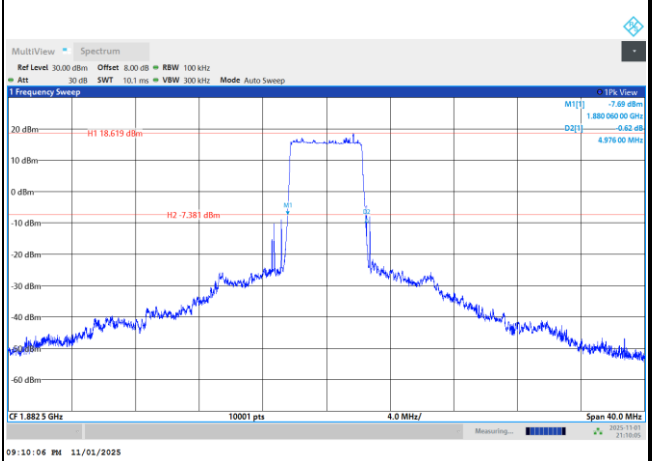


FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

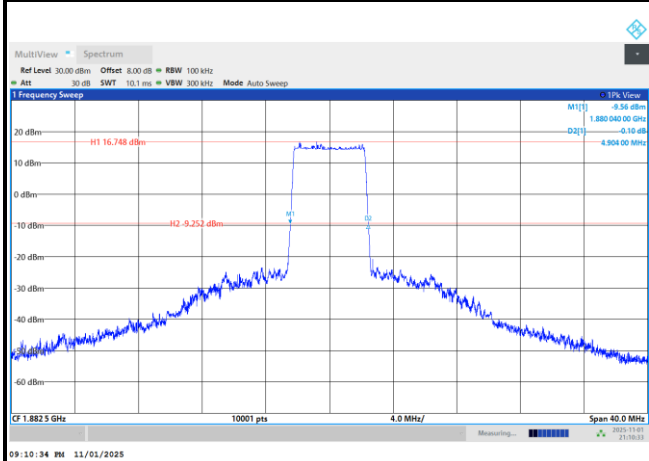
PI/2 BPSK



QPSK



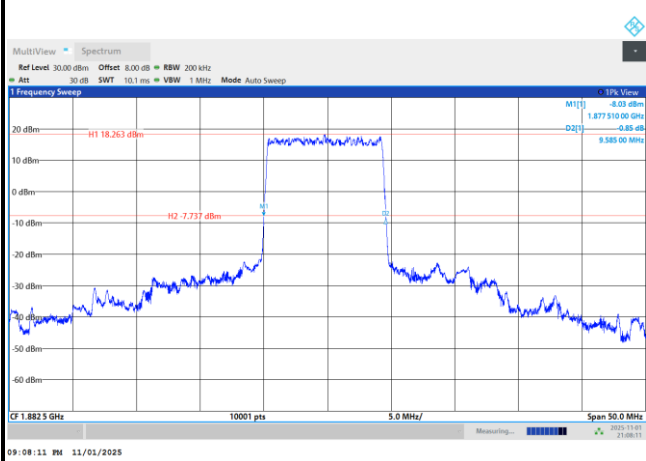
16QAM



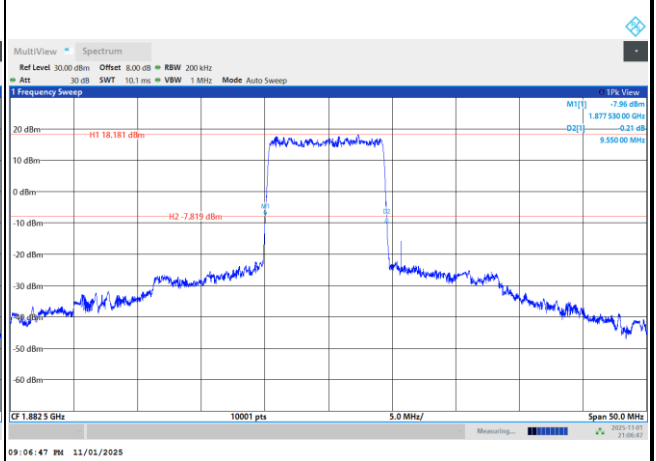


FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

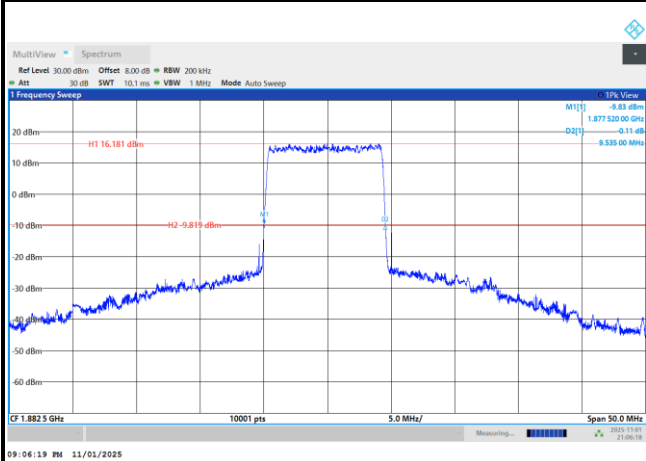
PI/2 BPSK



QPSK



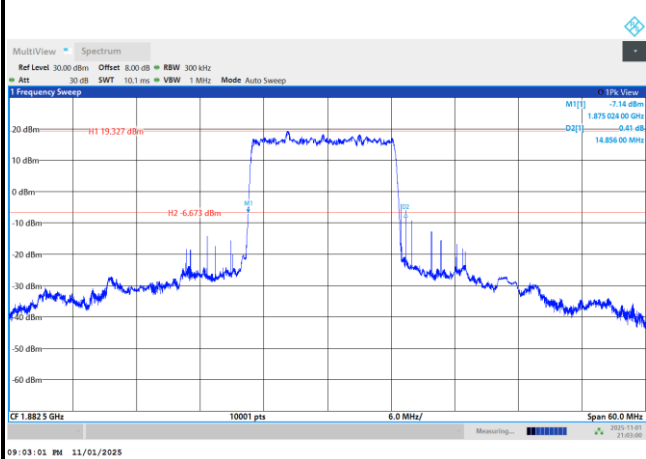
16QAM



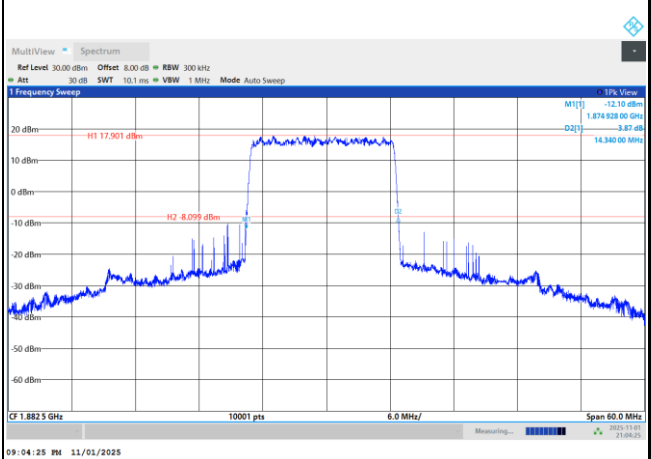


FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

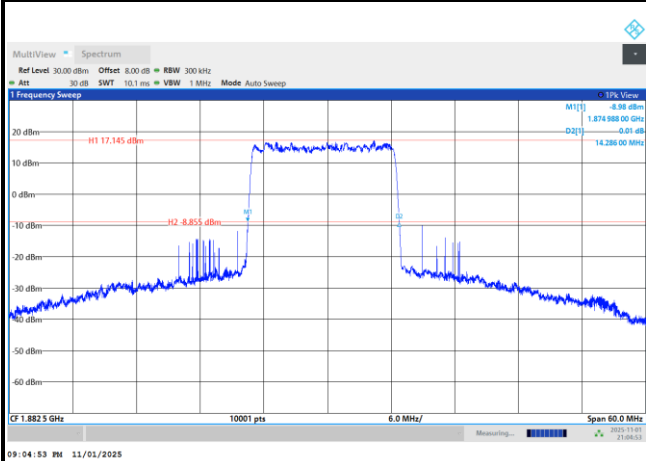
QPSK



QPSK



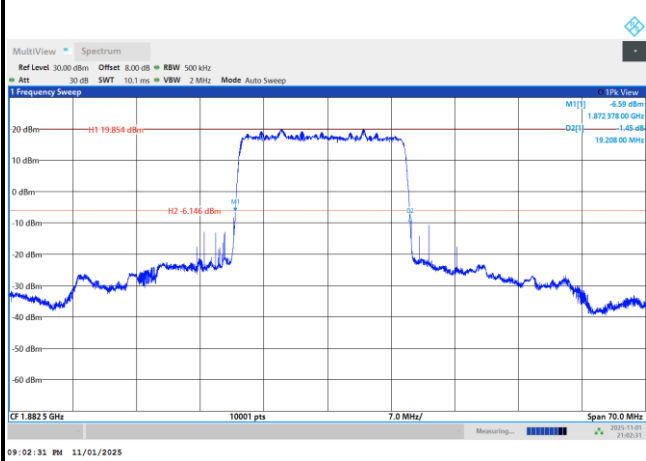
16QAM



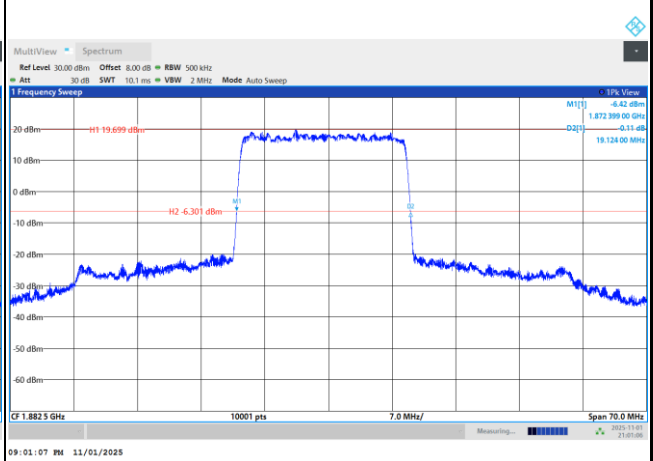


FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

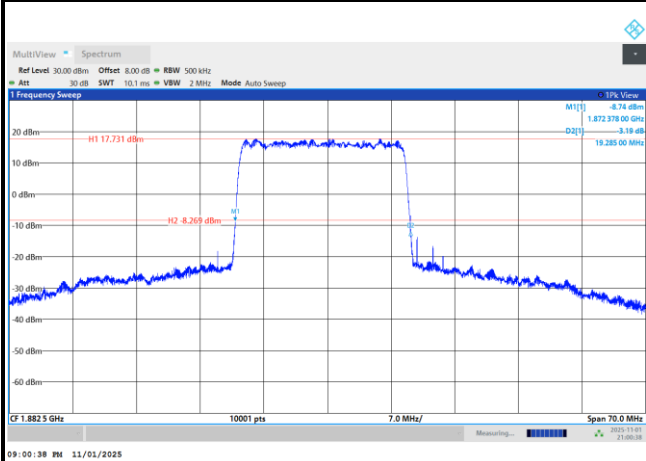
PI/2 BPSK



QPSK



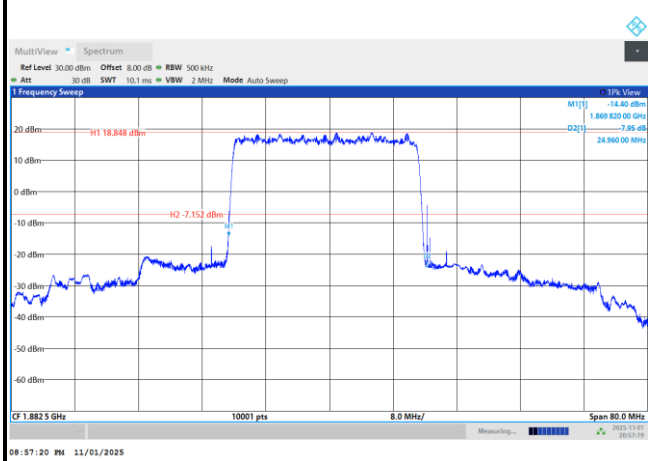
16QAM



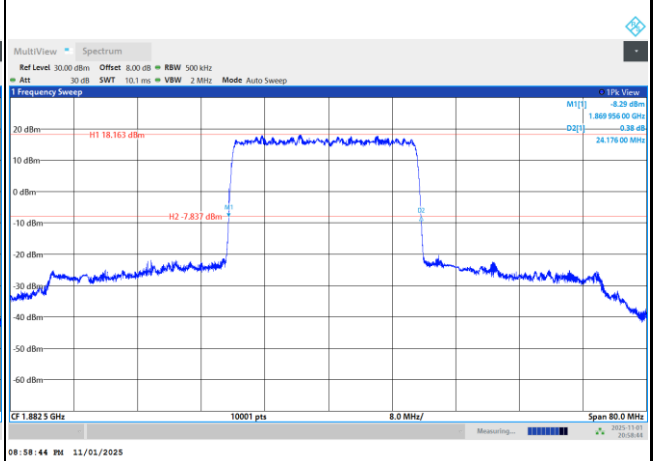


FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

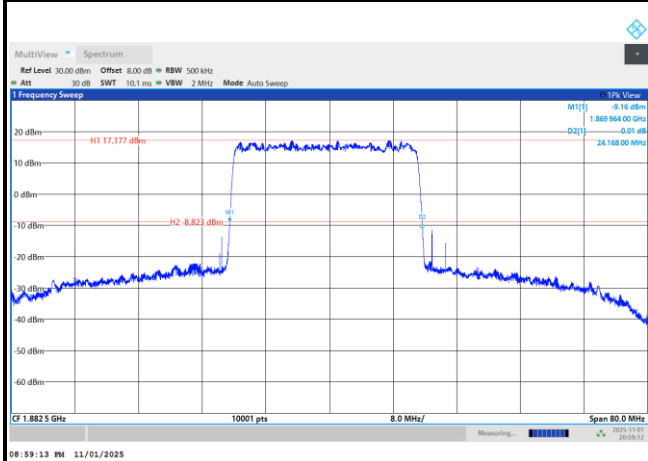
PI/2 BPSK



QPSK



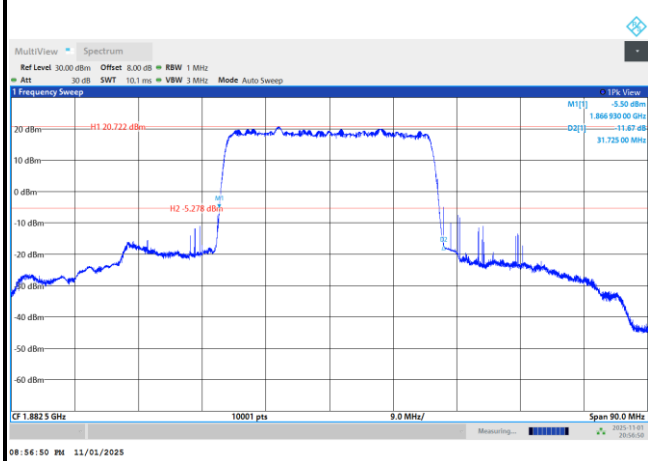
16QAM



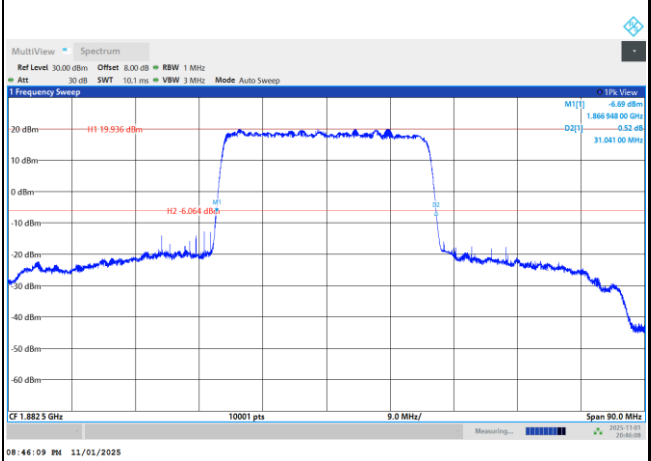


FR1 n25 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

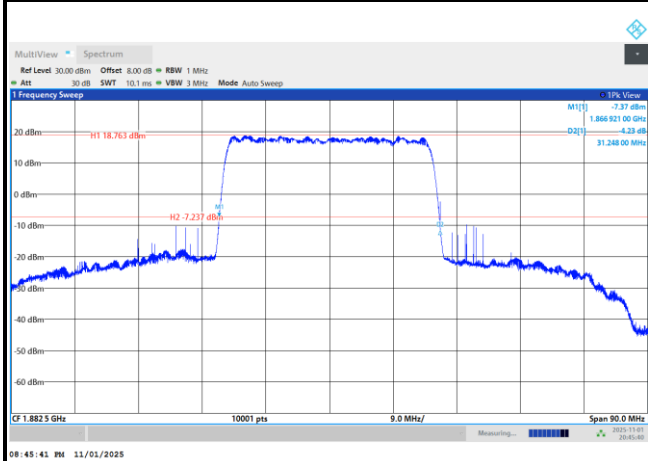
PI/2 BPSK



QPSK



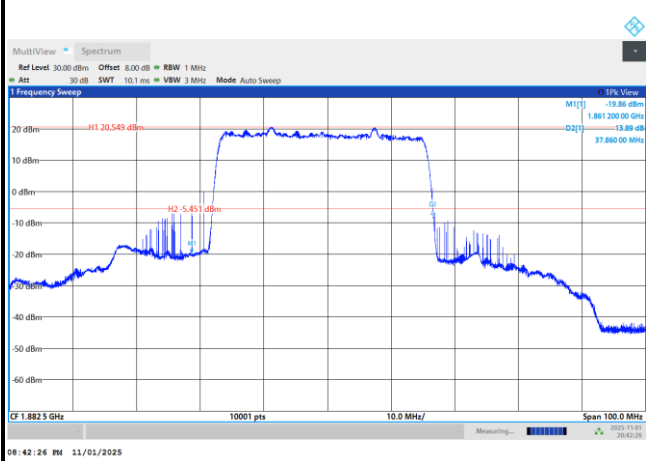
16QAM



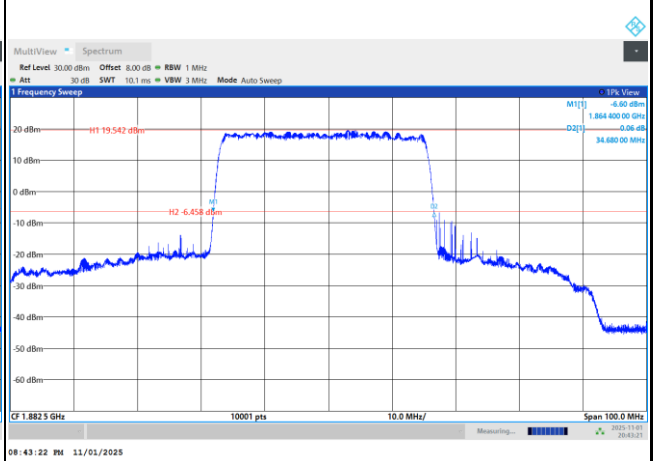


FR1 n25 / 35MHz / DFT-S OFDM / Middle Channel / Full RB

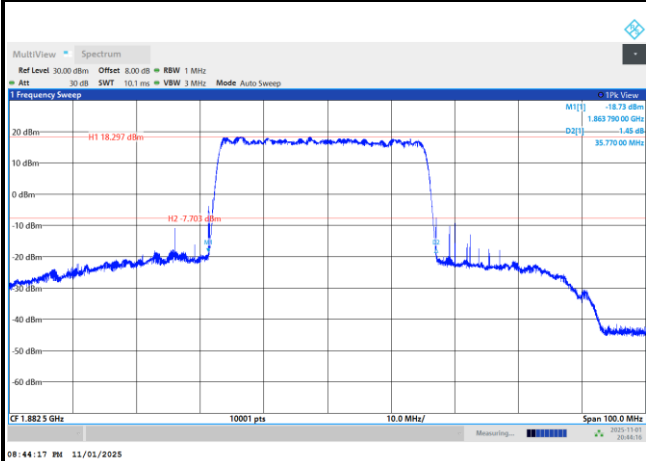
PI/2 BPSK



QPSK



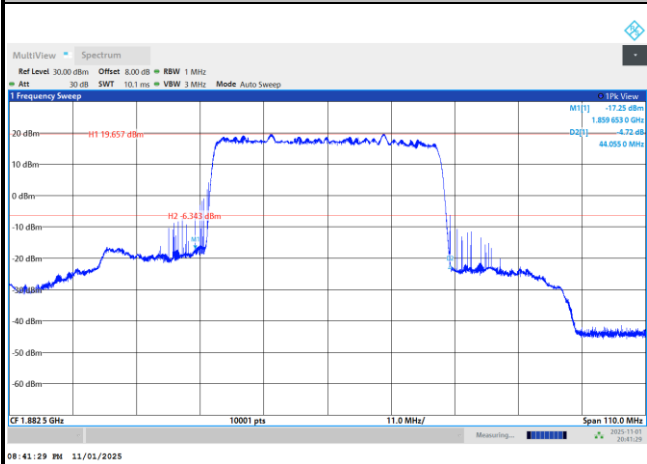
16QAM



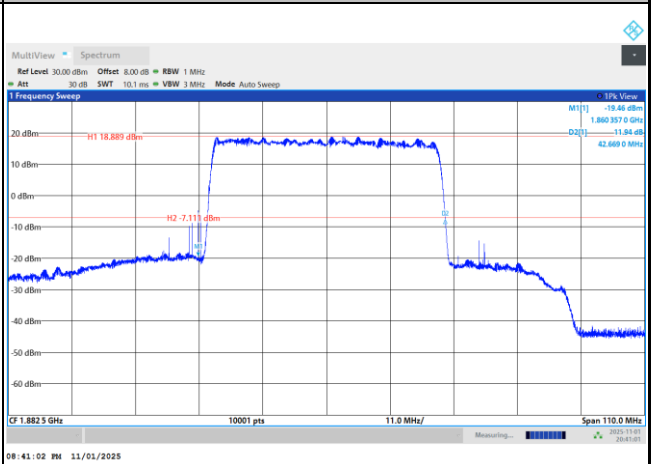


FR1 n25 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

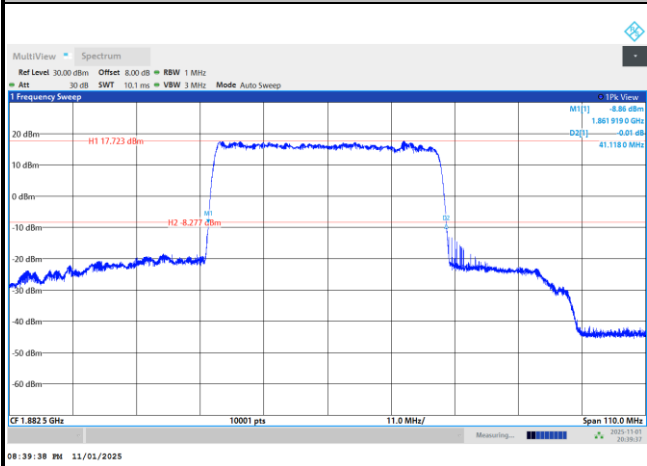
PI/2 BPSK



QPSK

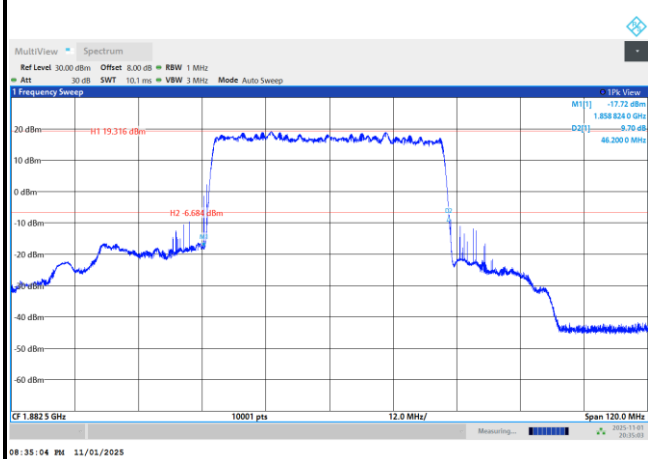


16QAM

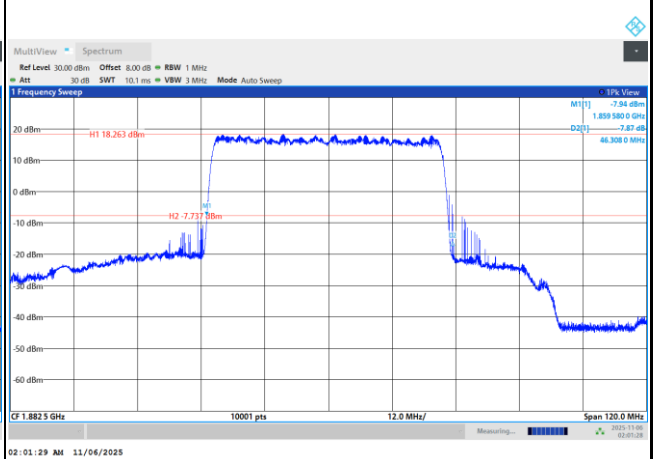




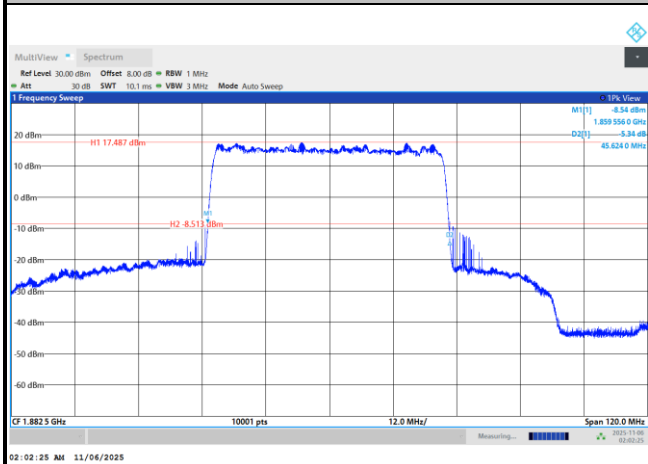
FR1 n25 / 45MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK



16QAM



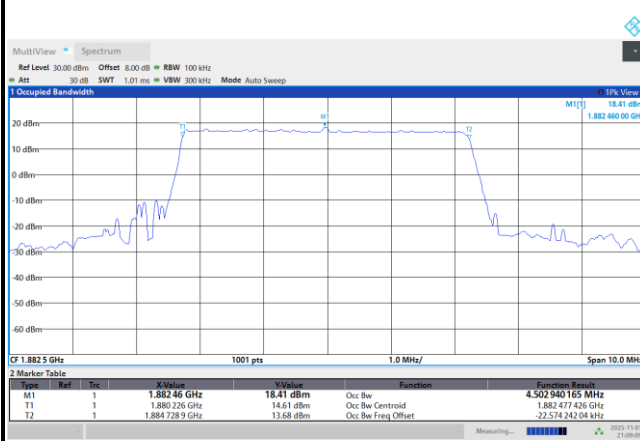
**Occupied Bandwidth**

Mode	FR1 n25 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	4.50	4.51	9.01	8.96	13.47	13.47	18.03	17.97
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	4.49		8.95		13.43		17.97	
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	22.97	22.97	28.95	28.88	32.49	32.30	38.69	38.83
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	22.91		28.85		32.38		38.64	
BW	45MHz							
Mod.	PI/2 BPSK	QPSK						
Middle CH	43.14	42.90						
Mod.	16QAM							
Middle CH	43.02							



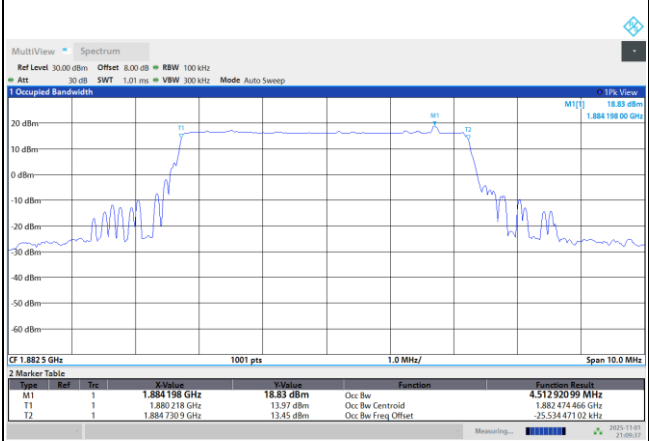
FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



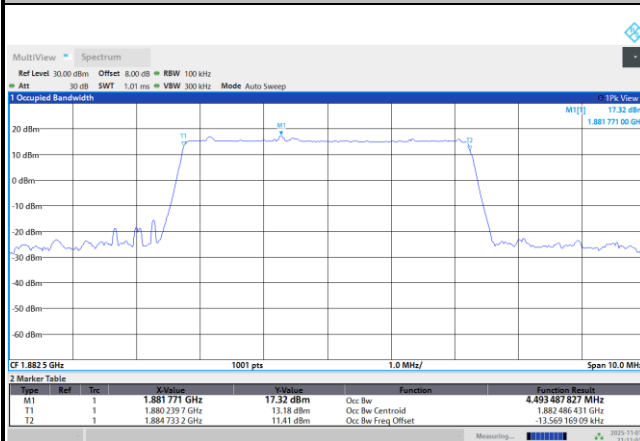
09:09:09 PM 11/01/2025

QPSK



09:09:38 PM 11/01/2025

16QAM

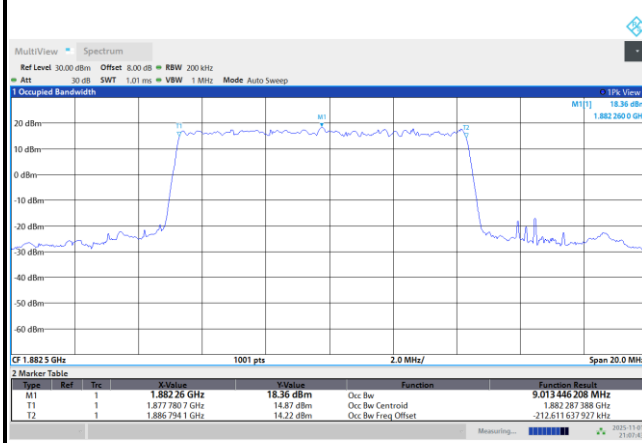


09:11:02 PM 11/01/2025



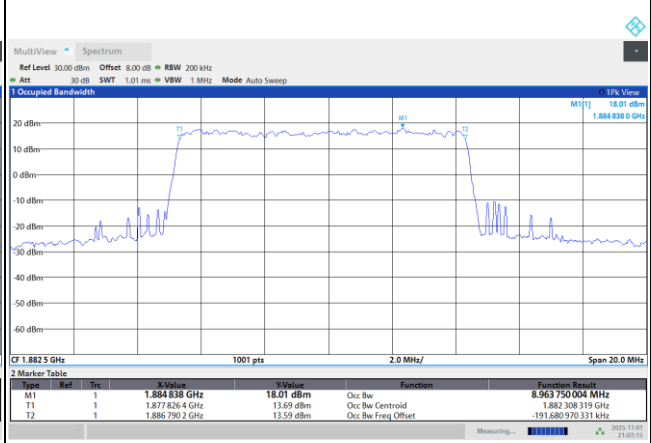
FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



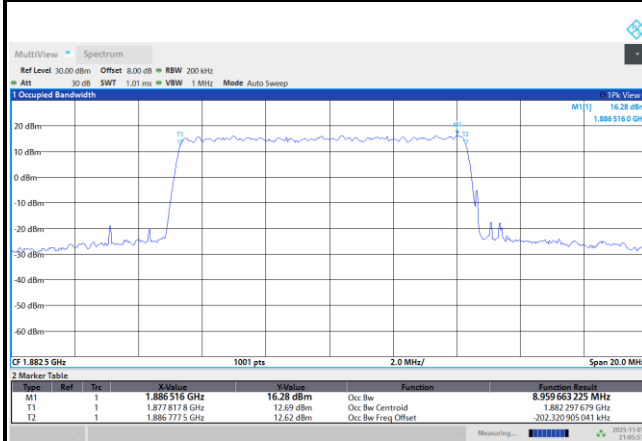
09:07:44 PM 11/01/2025

QPSK



09:07:15 PM 11/01/2025

16QAM

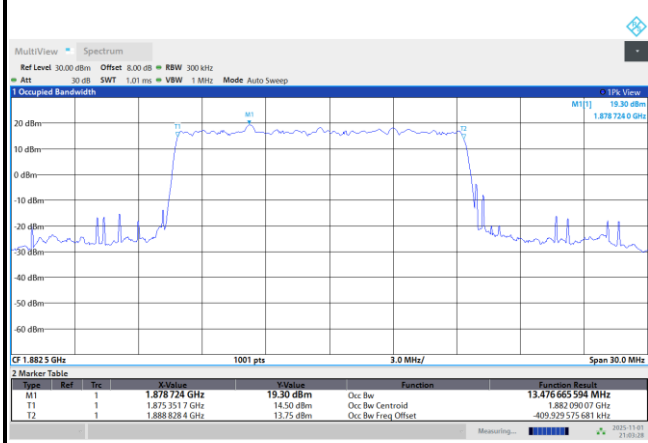


09:05:51 PM 11/01/2025



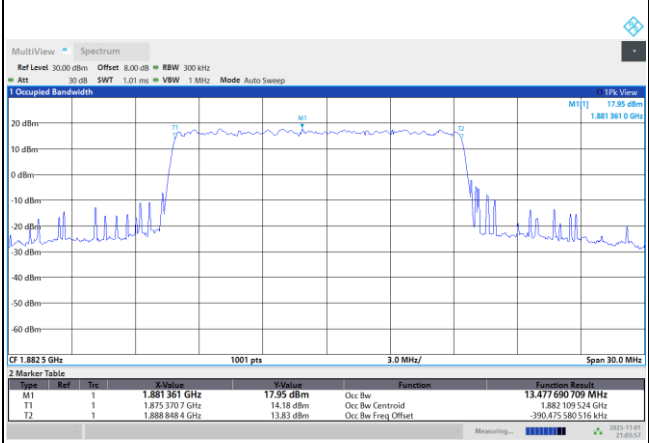
FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

QPSK



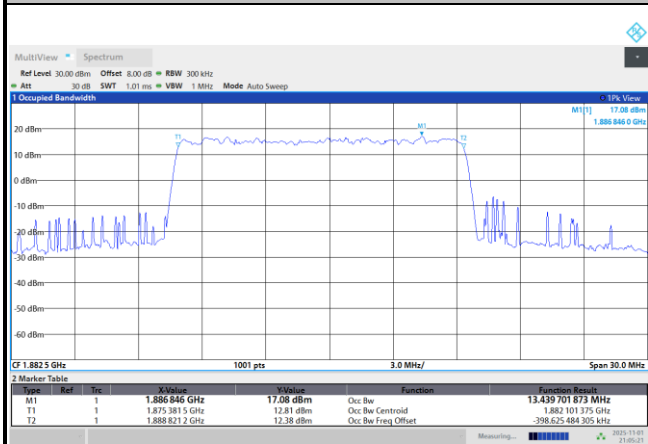
09:03:29 PM 11/01/2025

QPSK



09:03:31 PM 11/01/2025

16QAM

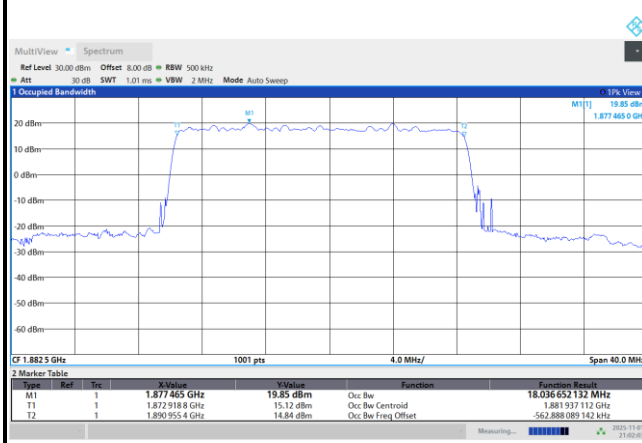


09:05:21 PM 11/01/2025



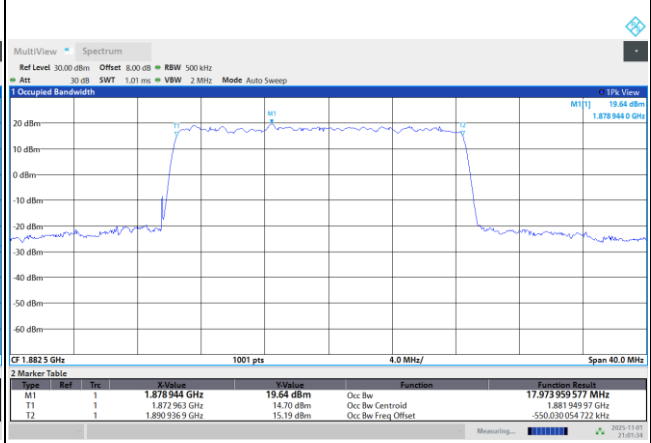
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



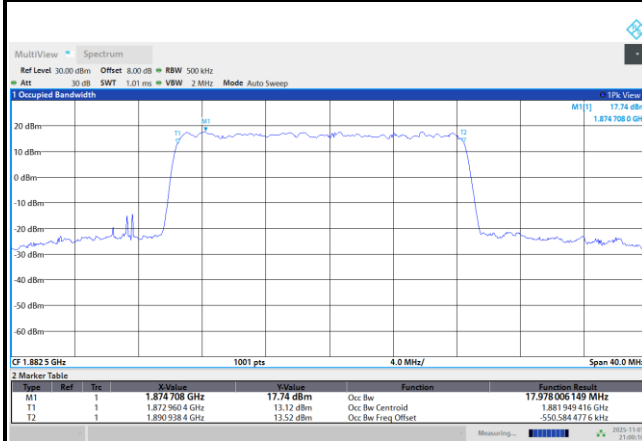
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QPSK



09:01:35 PM 11/01/2025

16QAM

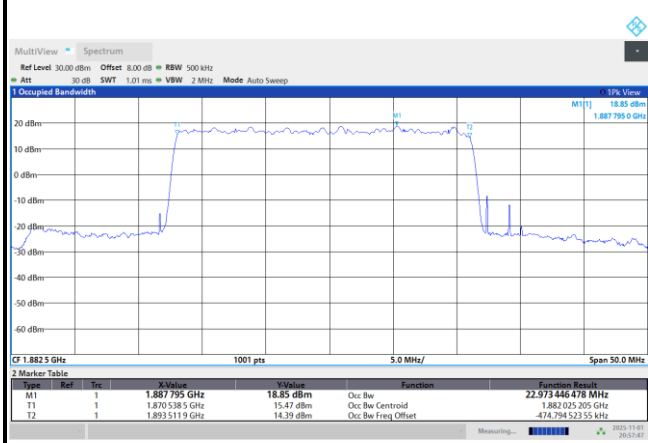


09:00:11 PM 11/01/2025



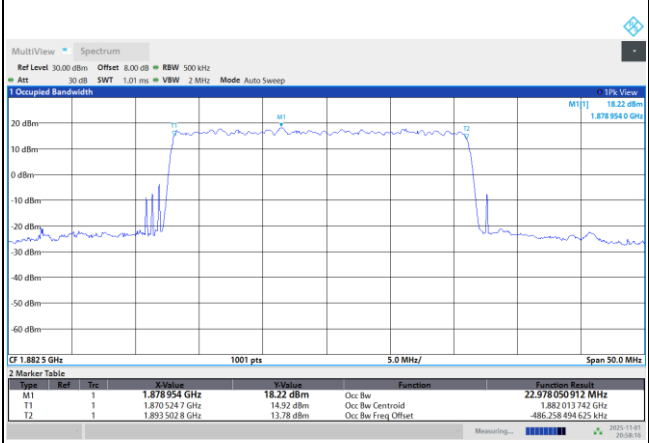
FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



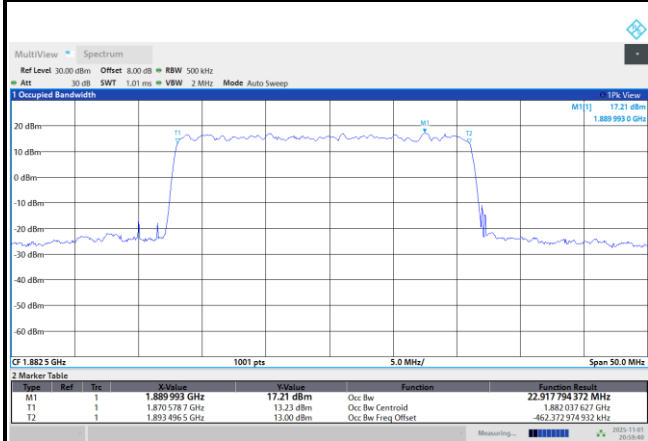
08:57:48 PM 11/01/2025

QPSK



08:58:16 PM 11/01/2025

16QAM

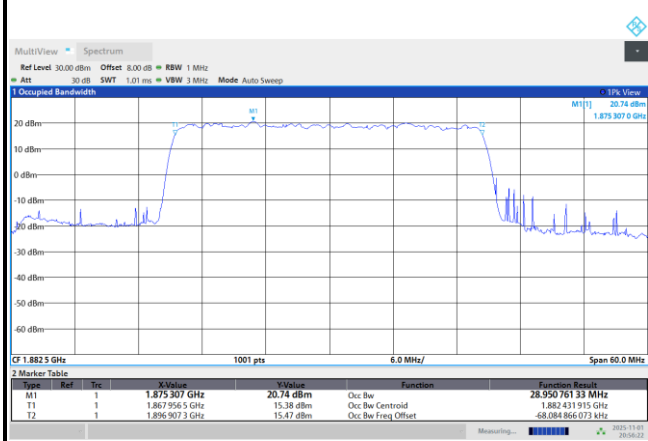


08:59:41 PM 11/01/2025



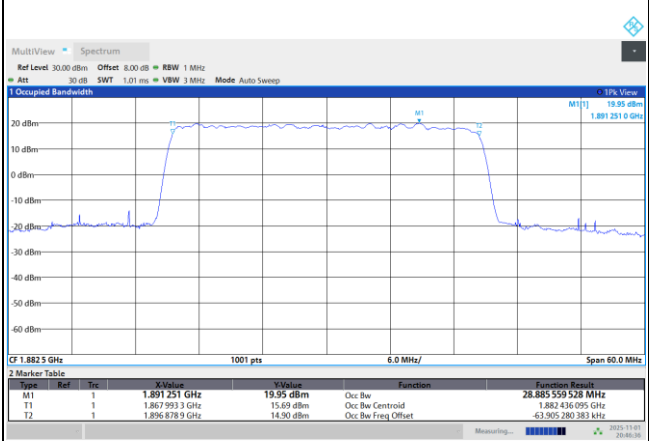
FR1 n25 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



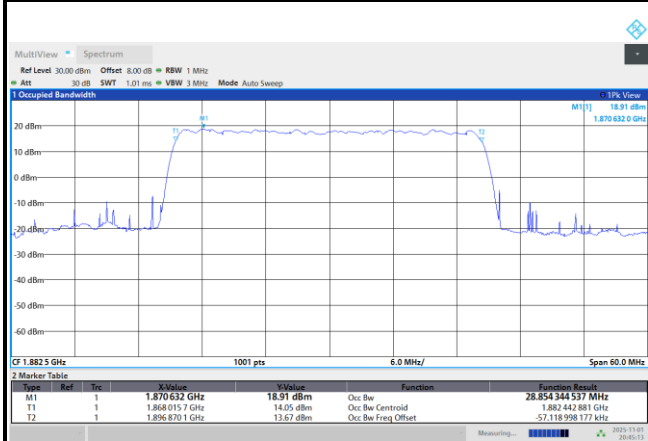
08:54:22 PM 11/01/2025

QPSK



08:46:36 PM 11/01/2025

16QAM

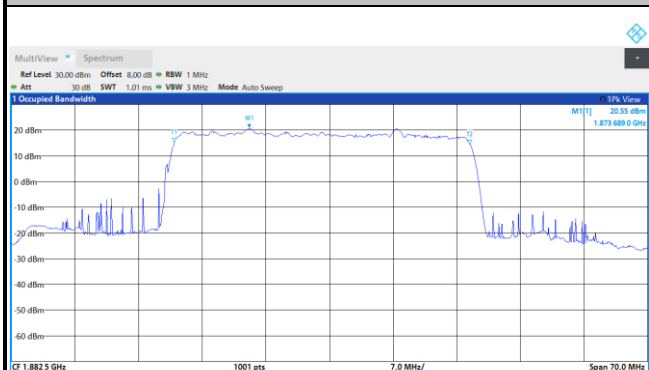


08:45:13 PM 11/01/2025



FR1 n25 / 35MHz / DFT-S OFDM / Middle Channel / Full RB

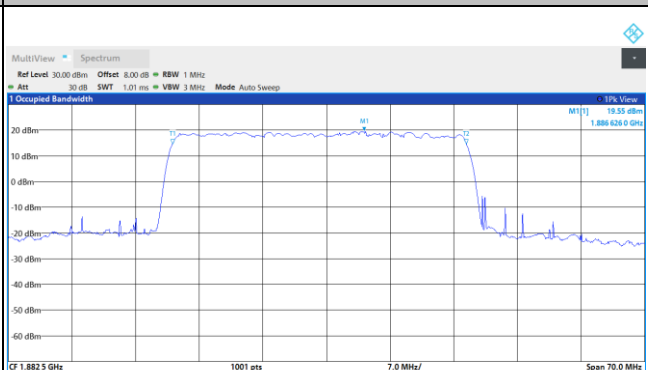
PI/2 BPSK



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.873 689 GHz	20.55 dBm	Occ Bw	32.491 562 106 MHz
T1	1		1.865 440 7 GHz	15.11 dBm	Occ Bw Centroid	1.881 686 526 GHz
T2	1		1.897 932 3 GHz	14.50 dBm	Occ Bw Freq Offset	-813.473 365 385 kHz

08:42:54 PM 11/01/2025

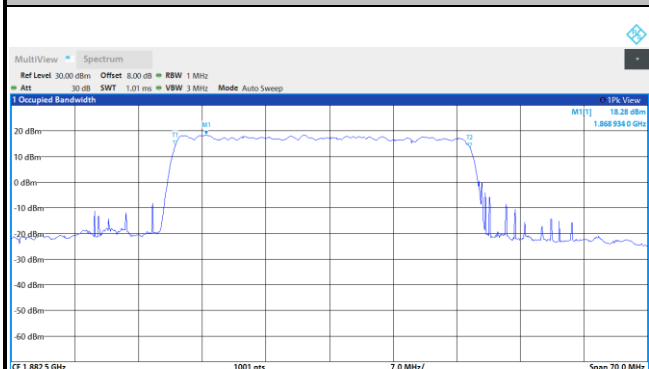
QPSK



Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.886 626 GHz	19.55 dBm	Occ Bw	32.308 955 753 MHz
T1	1		1.865 568 5 GHz	14.67 dBm	Occ Bw Centroid	1.881 723 023 GHz
T2	1		1.897 877 5 GHz	14.63 dBm	Occ Bw Freq Offset	-776.976 544 98 kHz

08:43:49 PM 11/01/2025

16QAM



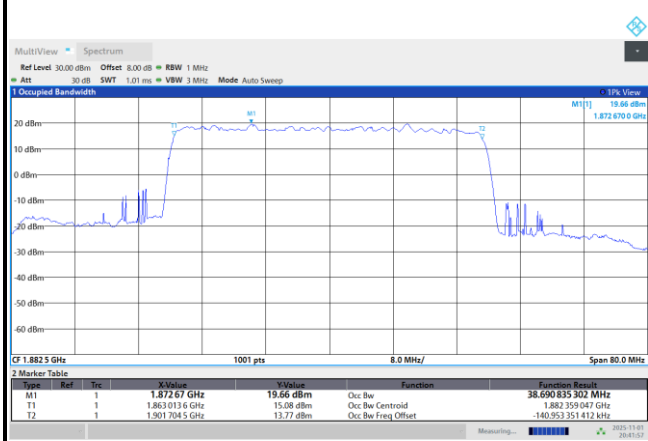
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		1.868 934 GHz	18.28 dBm	Occ Bw	32.383 250 426 MHz
T1	1		1.865 543 5 GHz	14.39 dBm	Occ Bw Centroid	1.881 735 08 GHz
T2	1		1.897 926 7 GHz	13.37 dBm	Occ Bw Freq Offset	-764.920 143 148 kHz

08:44:44 PM 11/01/2025



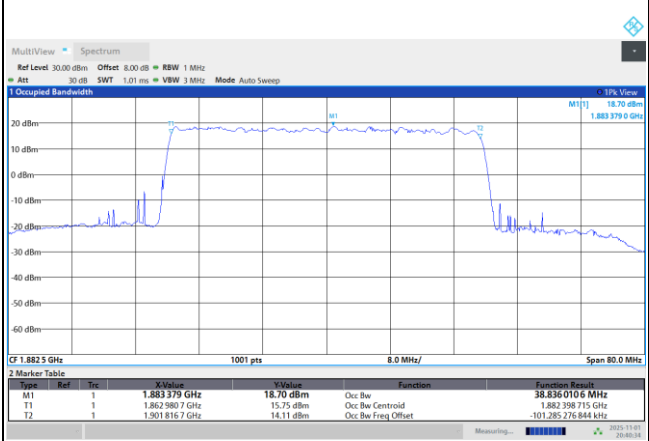
FR1 n25 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



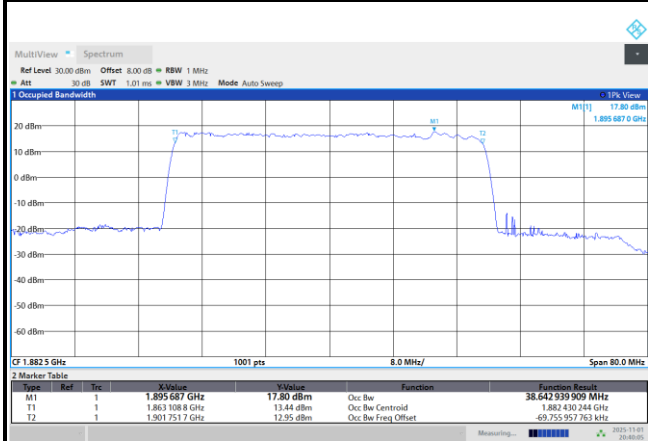
08:41:57 PM 11/01/2025

QPSK



08:40:34 PM 11/01/2025

16QAM

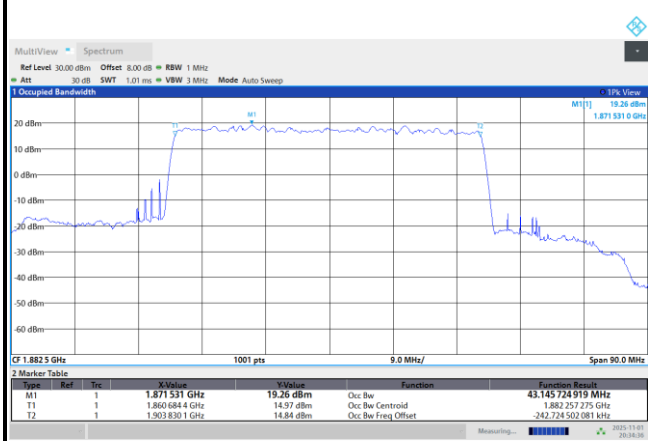


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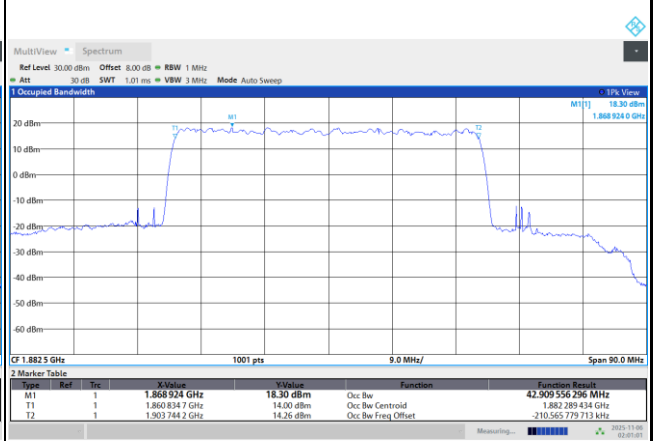
FR1 n25 / 45MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



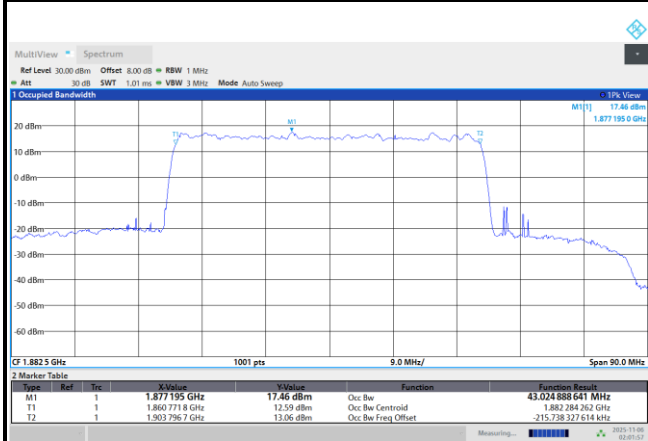
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QPSK



02:01:01 AM 11/04/2025

16QAM



02:01:57 AM 11/04/2025

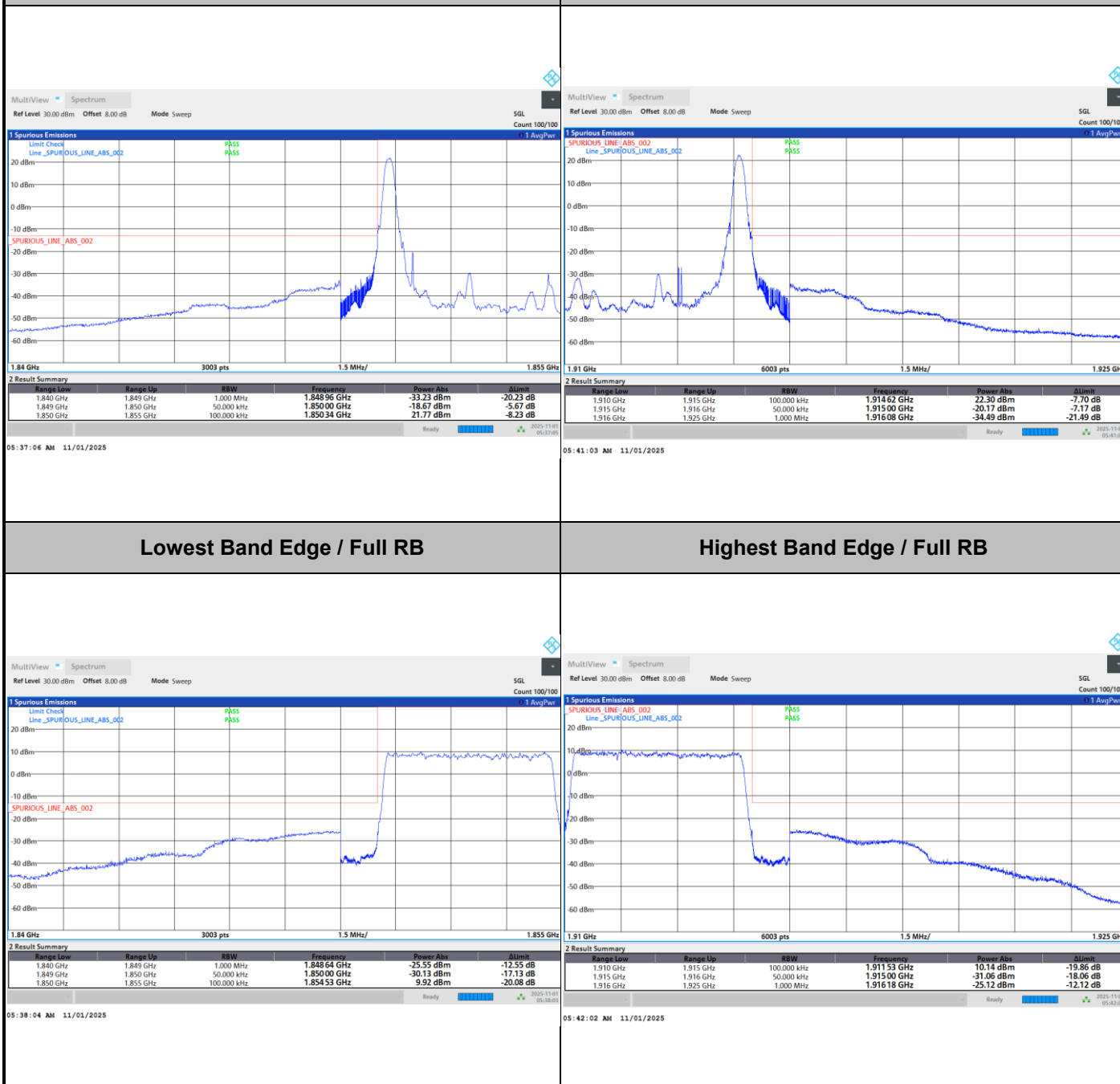


Conducted Band Edge

FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

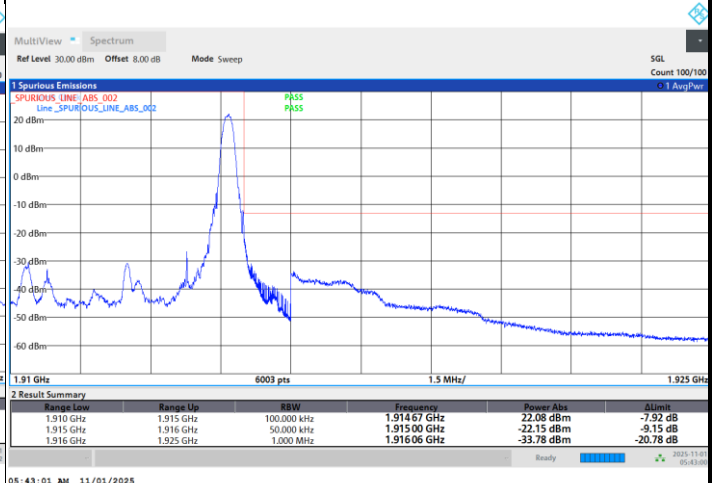
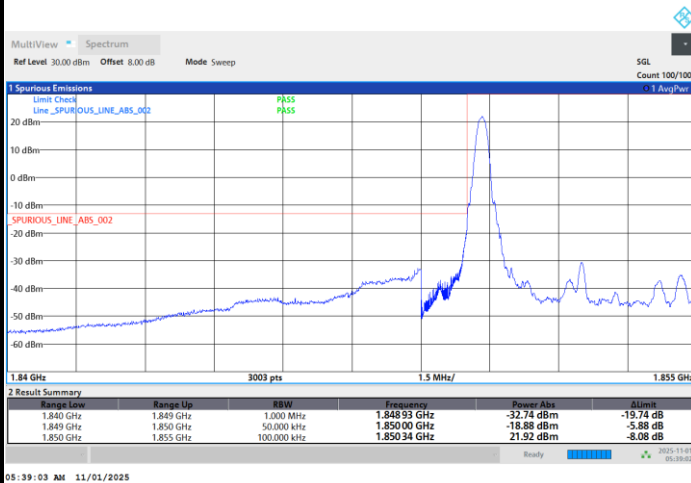




FR1 n25 / 5MHz / DFT-S OFDM / QPSK

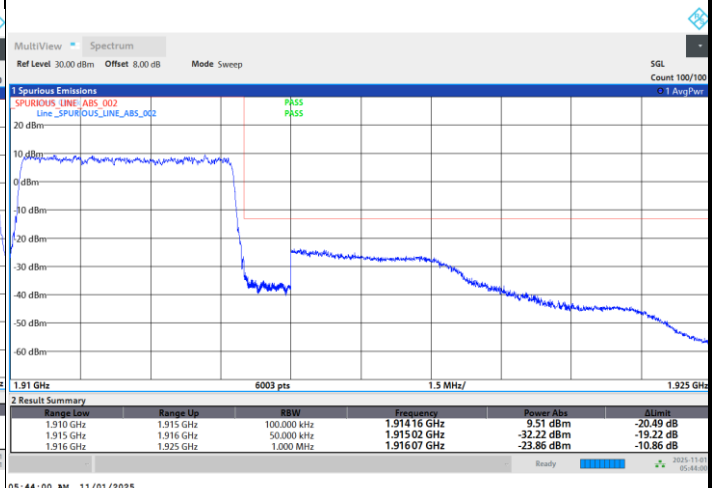
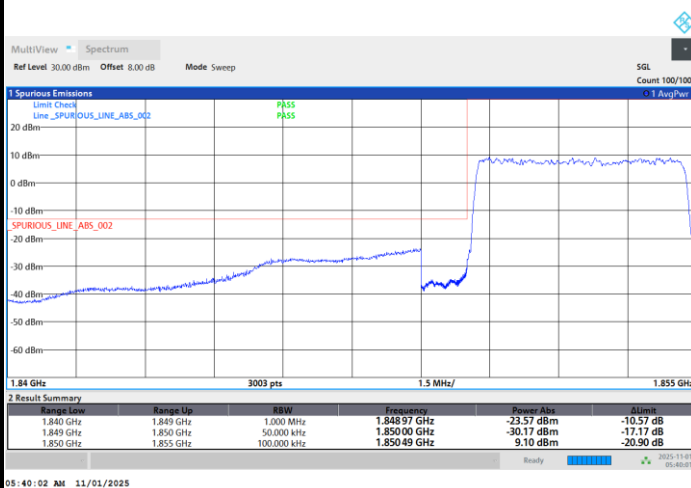
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

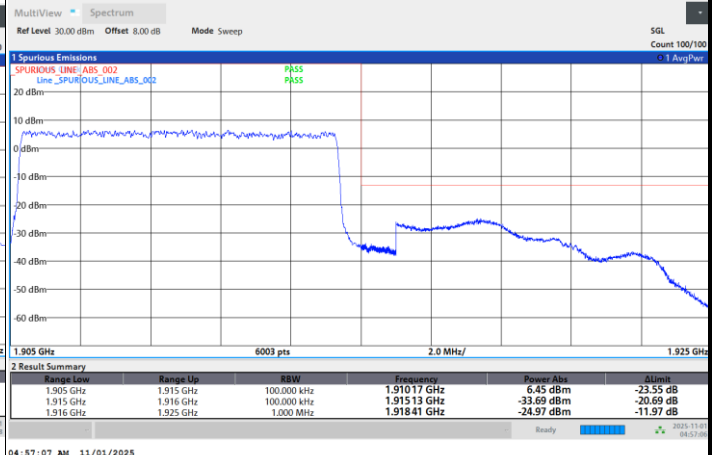
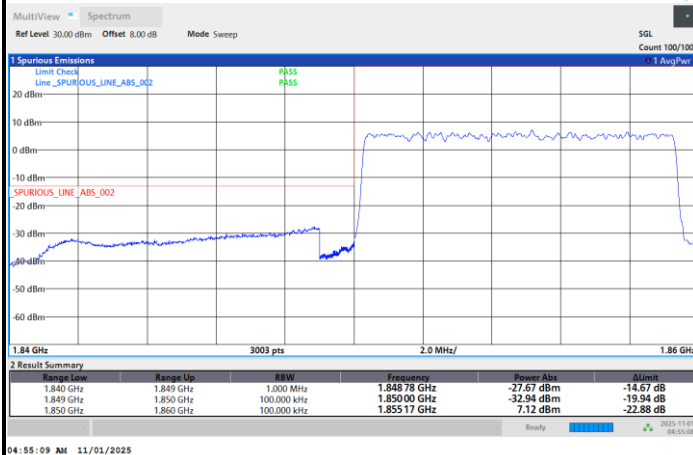




FR1 n25 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

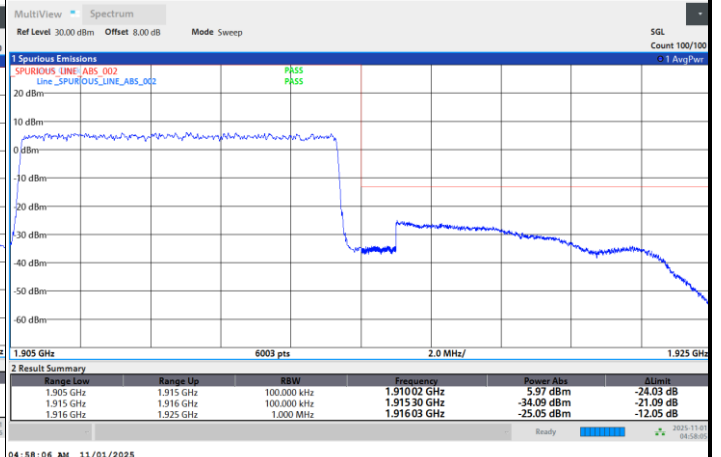
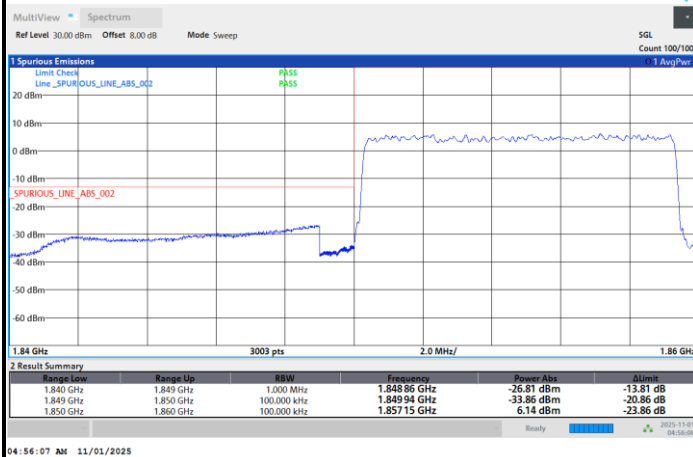
Highest Band Edge / Full RB



FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

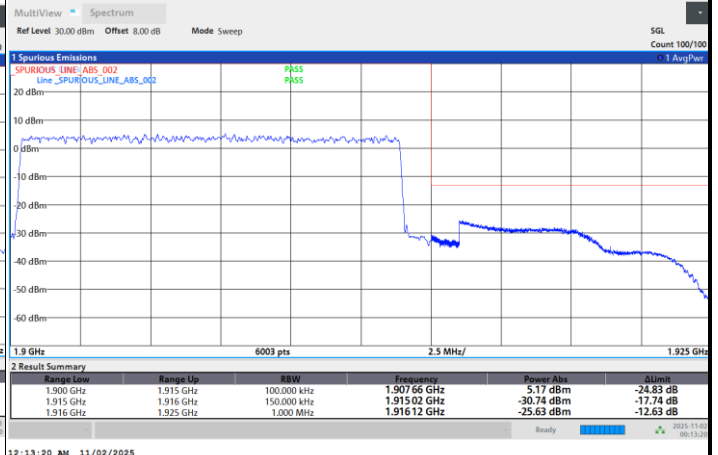
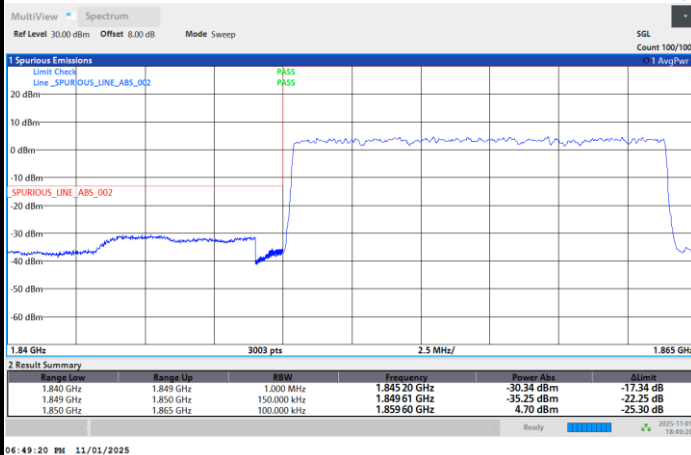




FR1 n25 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

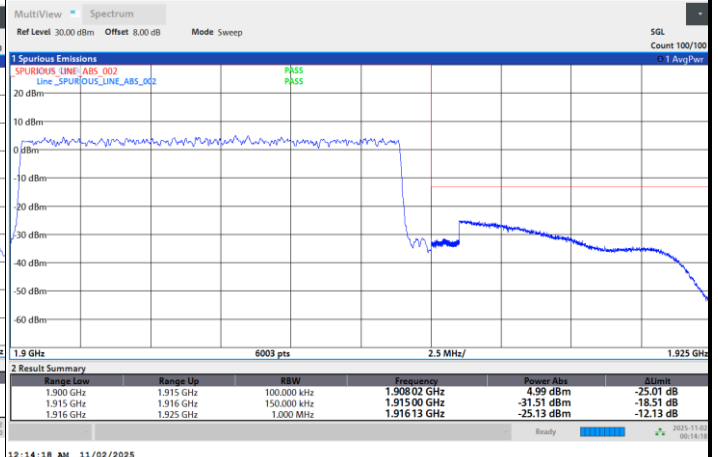
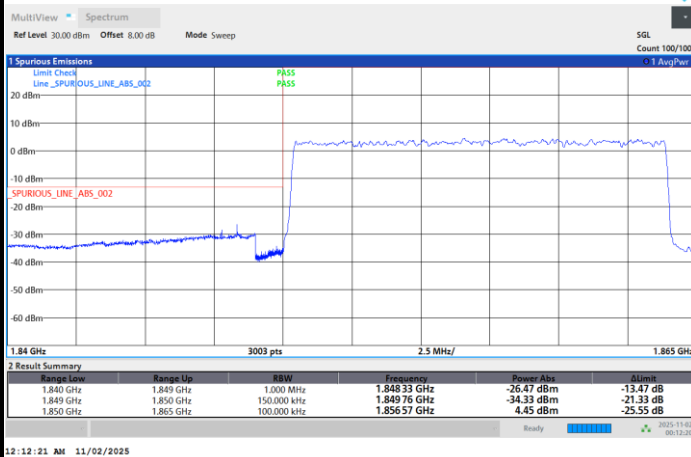
Highest Band Edge / Full RB



FR1 n25 / 15MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

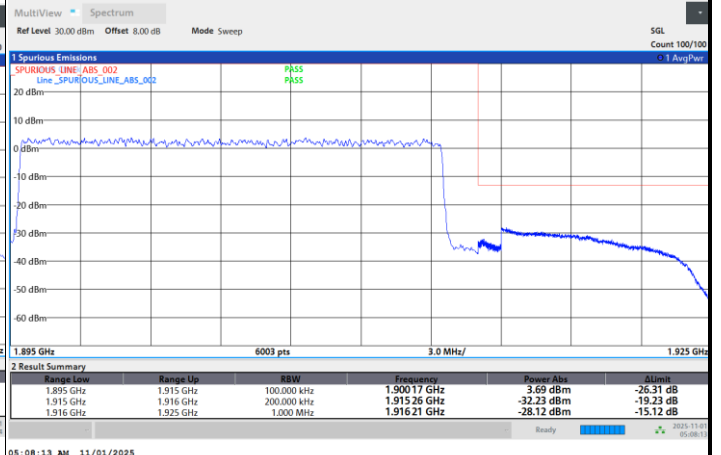
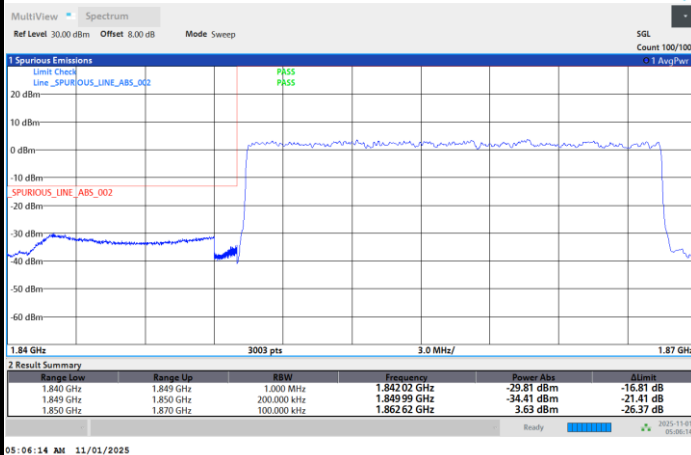




FR1 n25 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

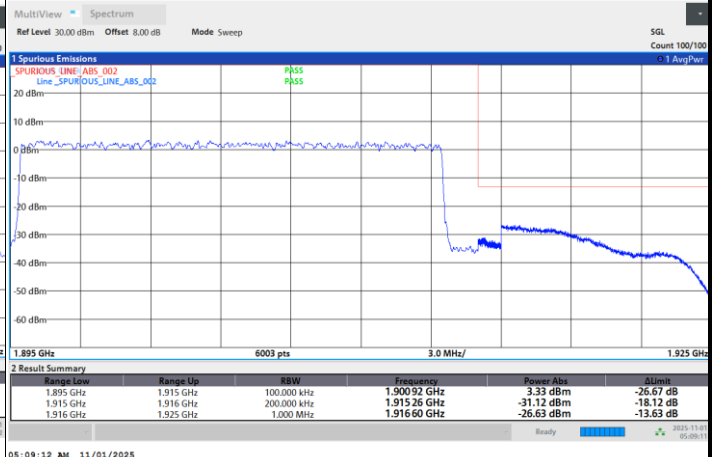
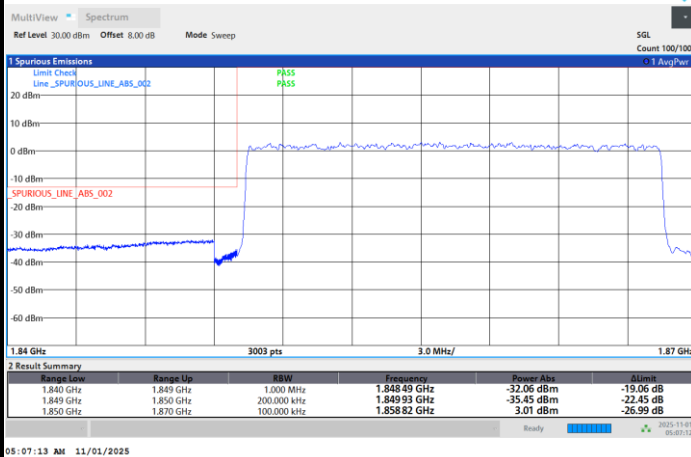
Highest Band Edge / Full RB



FR1 n25 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

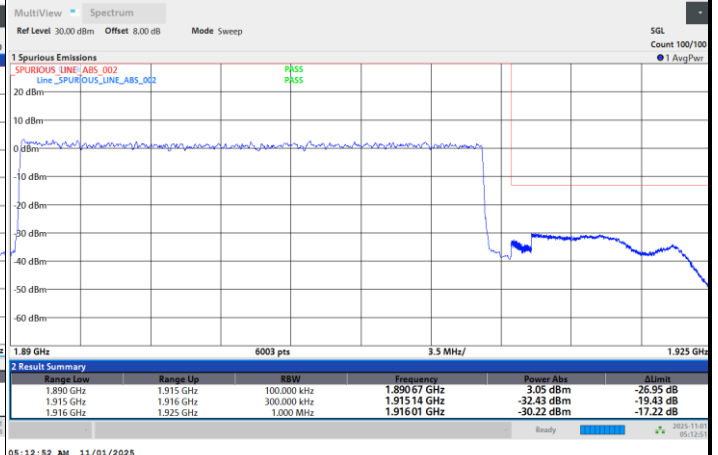
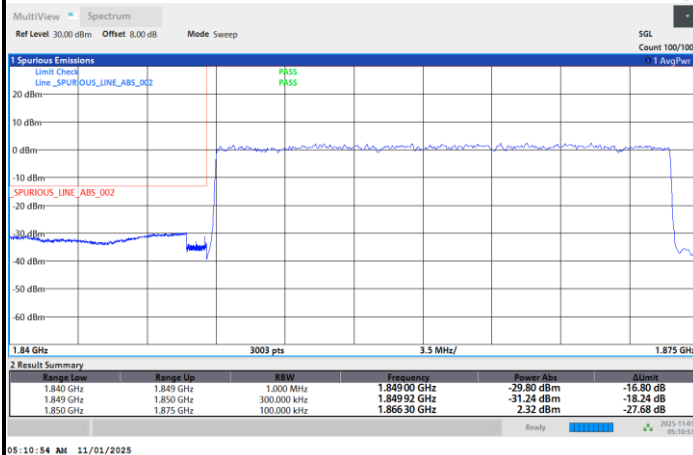




FR1 n25 / 25MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

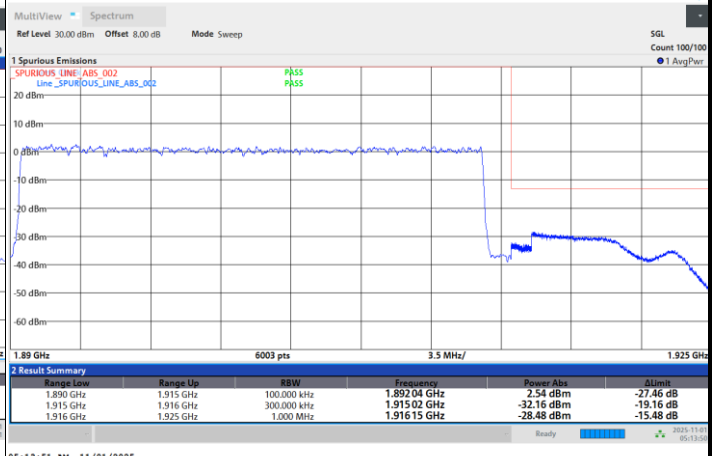
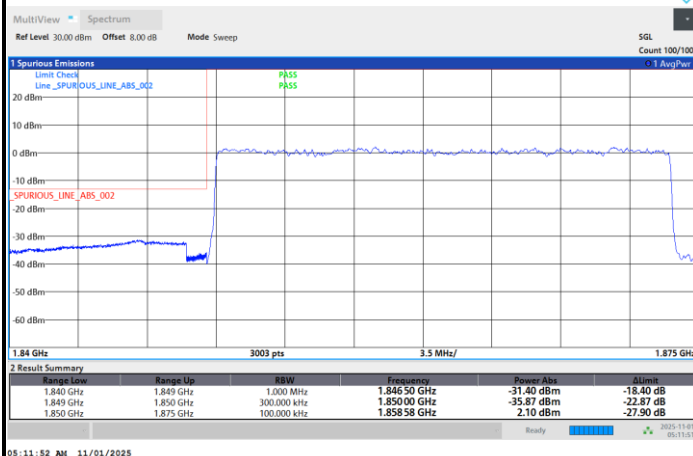
Highest Band Edge / Full RB



FR1 n25 / 25MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

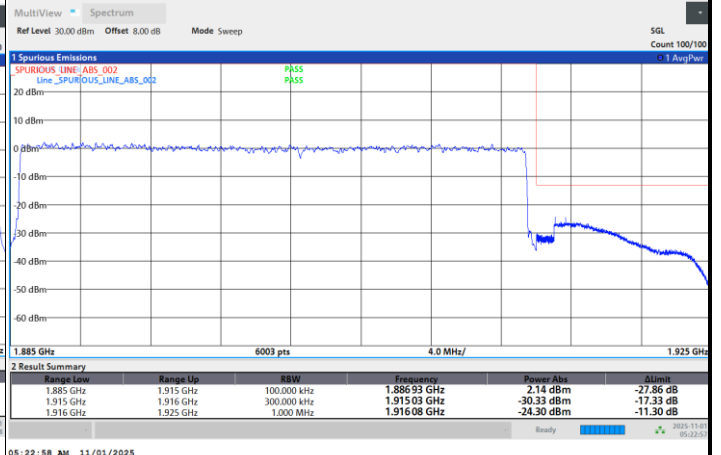
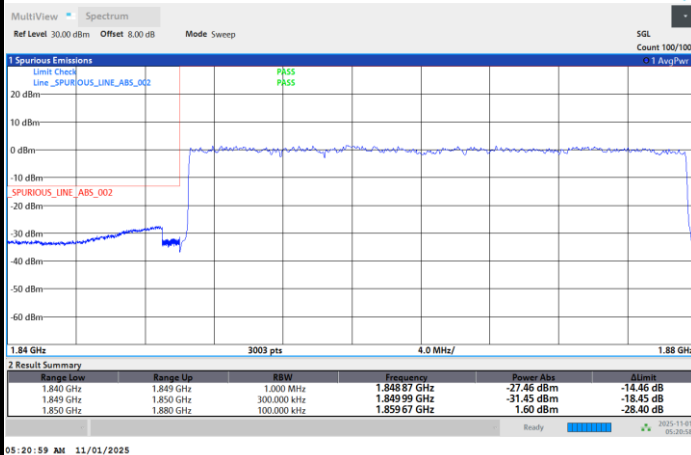




FR1 n25 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

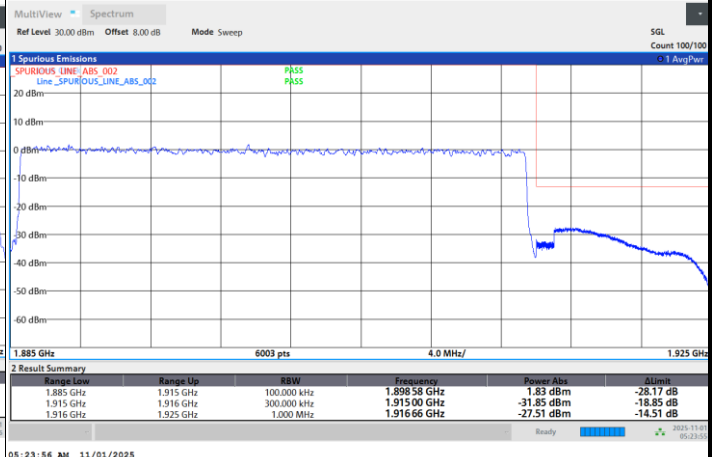
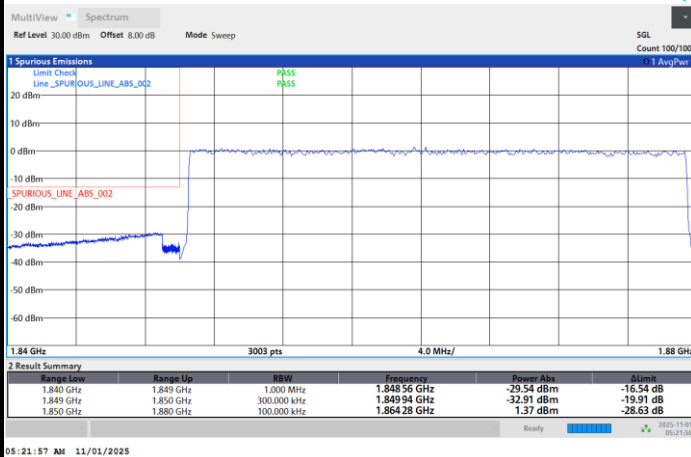
Highest Band Edge / Full RB



FR1 n25 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

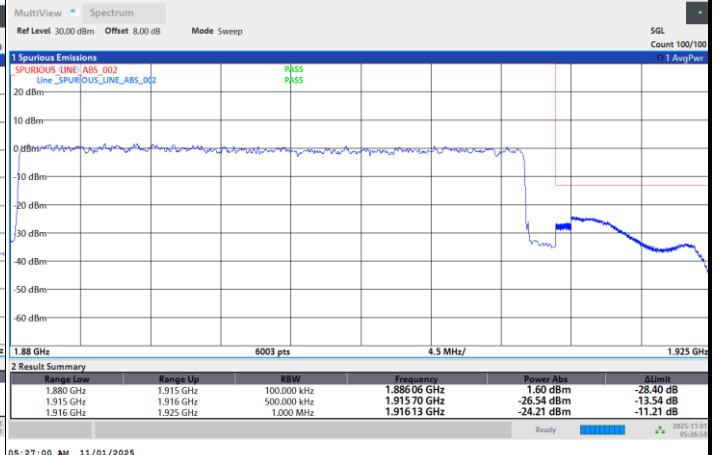
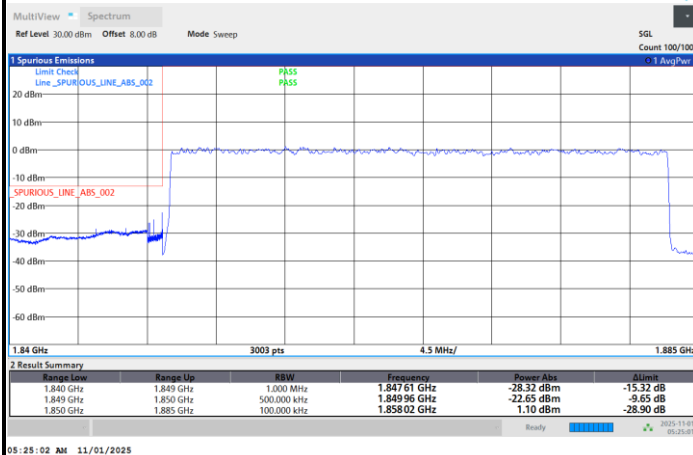




FR1 n25 / 35MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

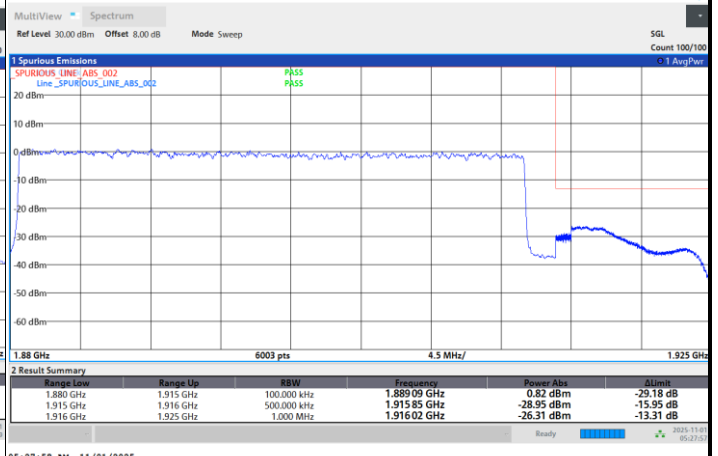
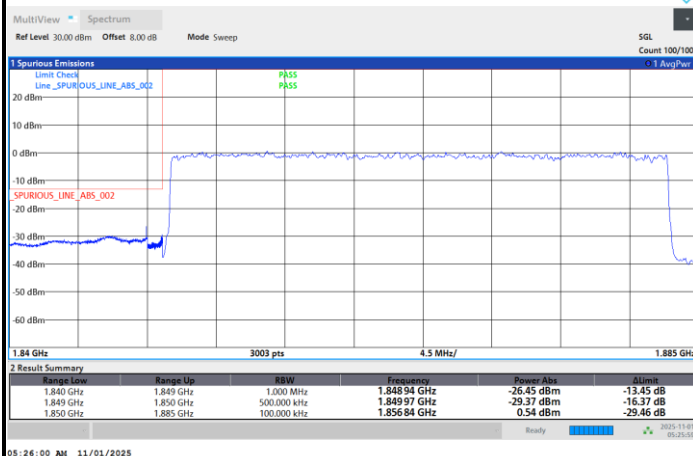
Highest Band Edge / Full RB



FR1 n25 / 35MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

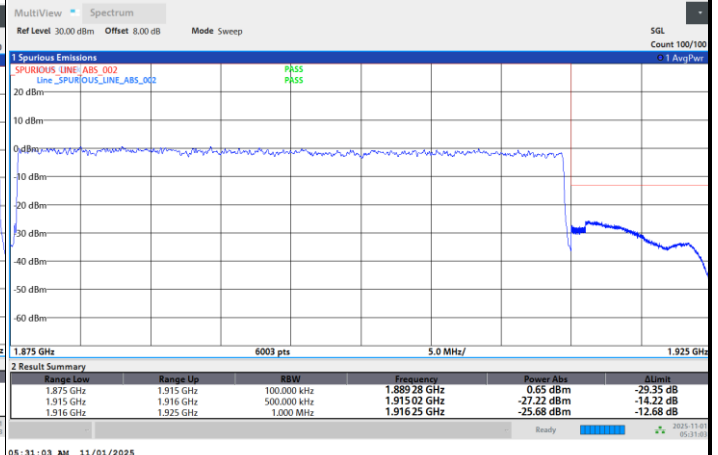
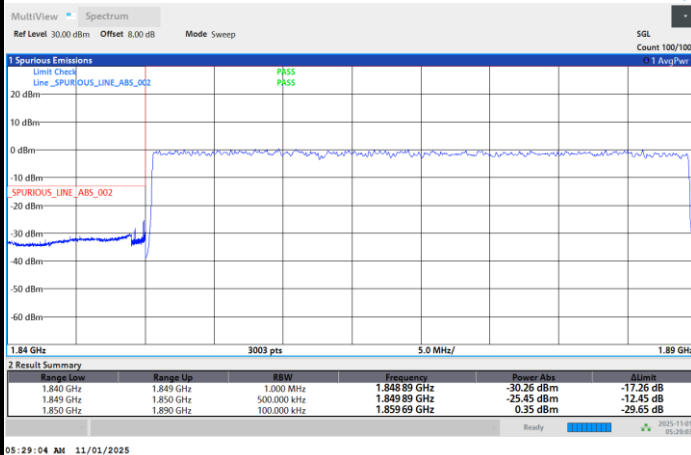




FR1 n25 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

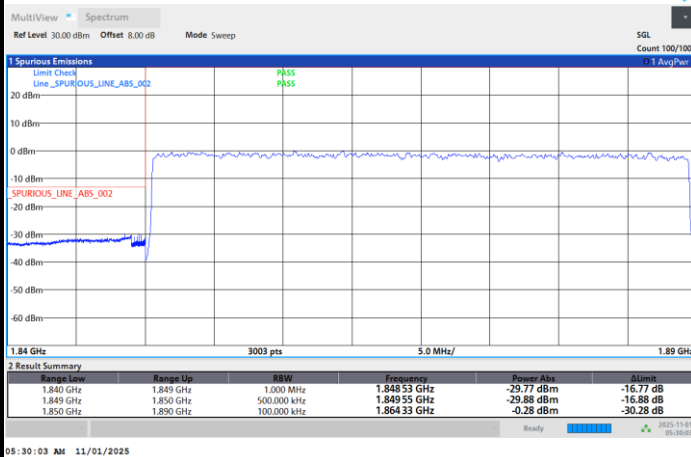
Highest Band Edge / Full RB



FR1 n25 / 40MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

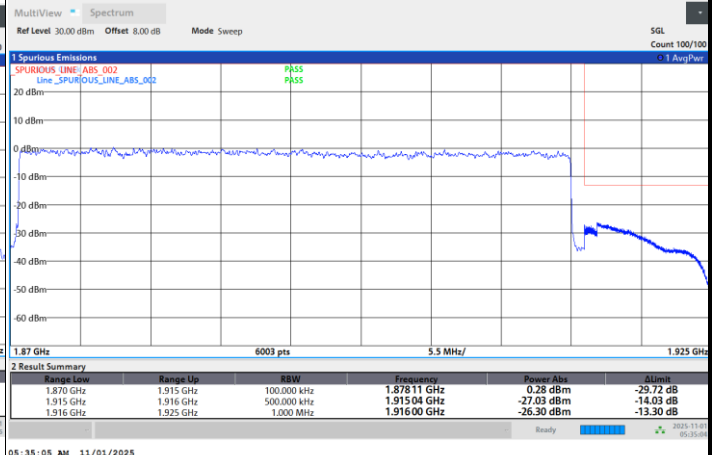
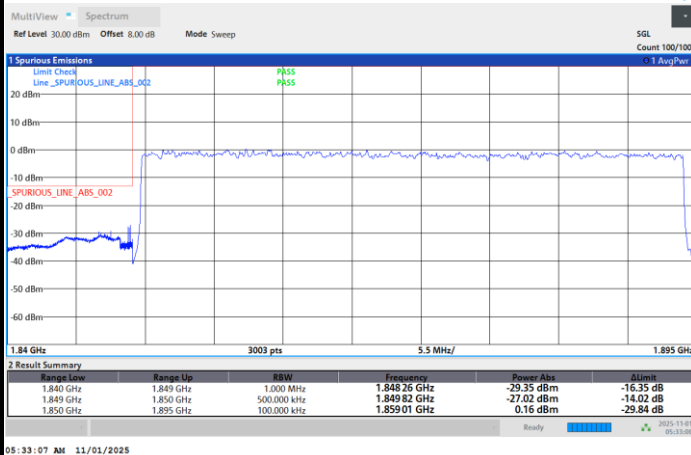




FR1 n25 / 45MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

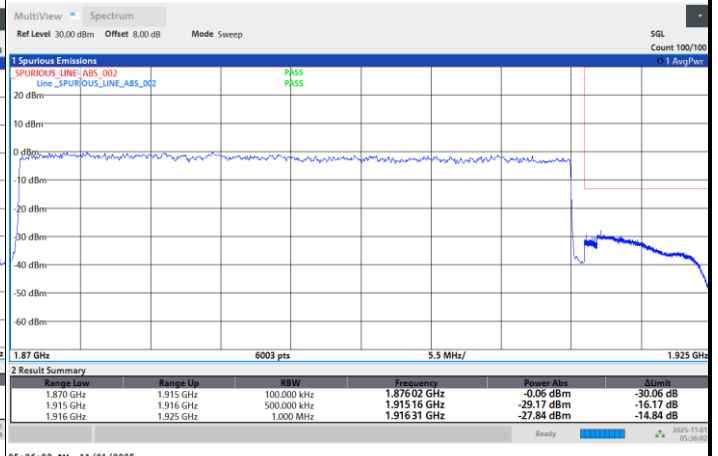
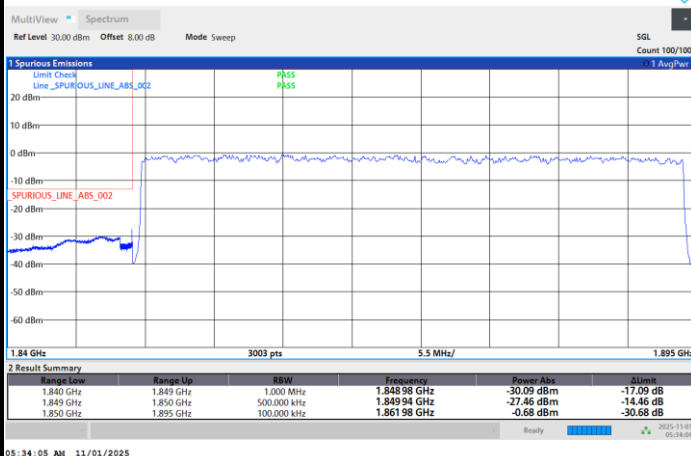
Highest Band Edge / Full RB



FR1 n25 / 45MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

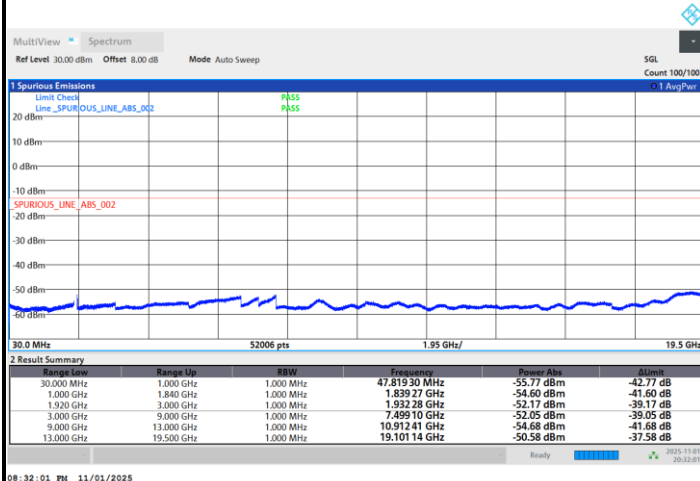




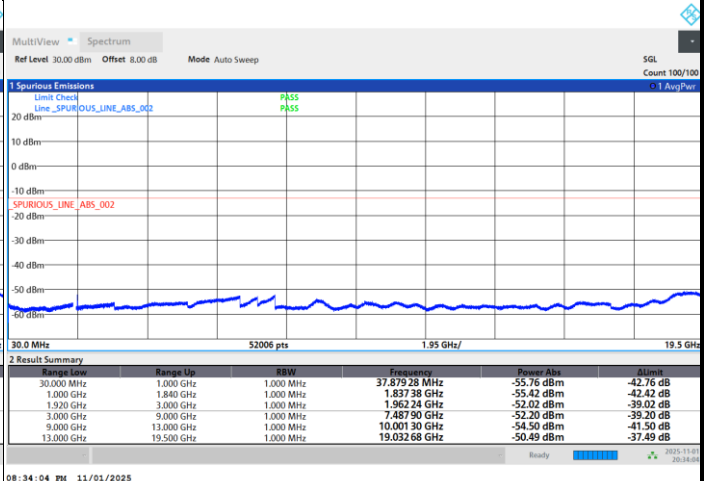
Conducted Spurious Emission

FR1 n25 / 5MHz / DFT-S OFDM / QPSK / 1RB1

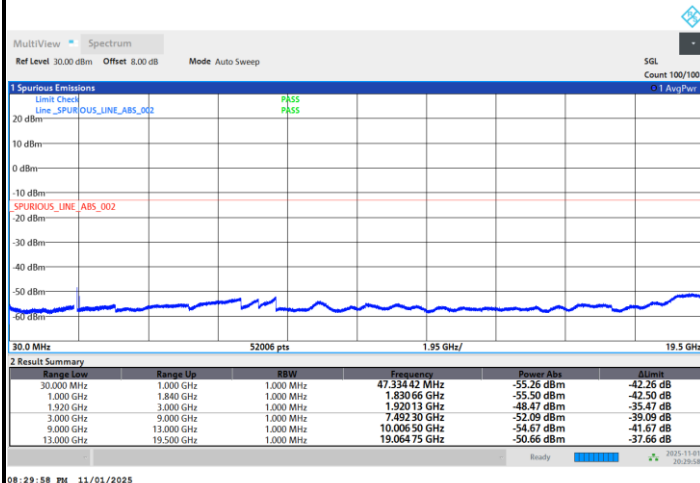
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n25 (BPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0047	8.9	Yes	PASS
40	Normal Voltage	0.0026	4.8	Yes	
30	Normal Voltage	0.0009	1.7	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0001	0.2	Yes	
0	Normal Voltage	0.0048	9	Yes	
-10	Normal Voltage	0.0025	4.7	Yes	
-20	Normal Voltage	0.0025	4.7	Yes	
-30	Normal Voltage	0.0039	-7.4	Yes	
20	Maximum Voltage	0.0020	3.7	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0003	0.5	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 n26****<SISO Mode>****Peak-to-Average Ratio**

Mode	FR1 n26 / 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	3.74	4.60	5.44	5.88	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.60				PASS