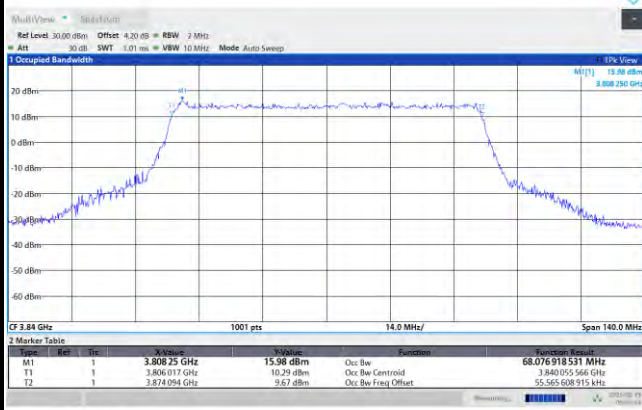


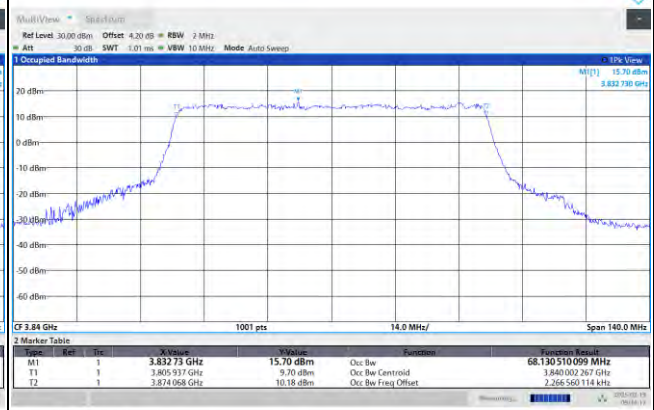


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

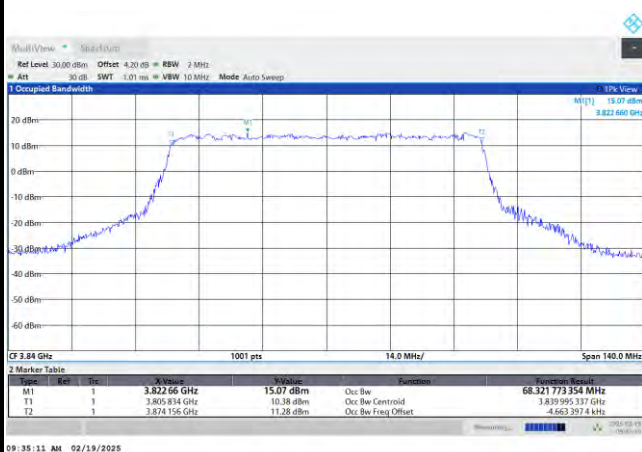
QPSK



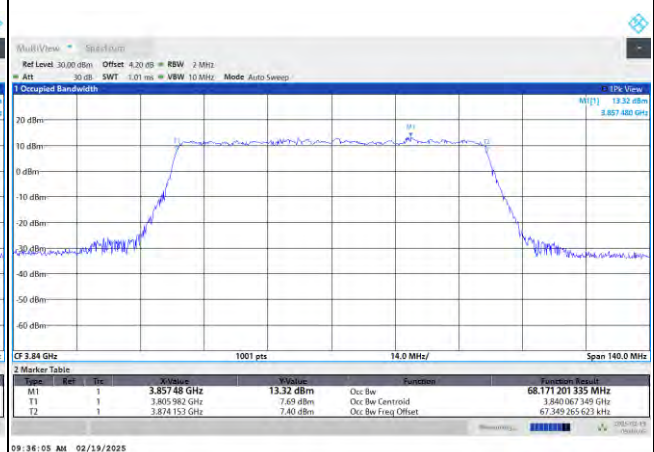
16QAM



64QAM



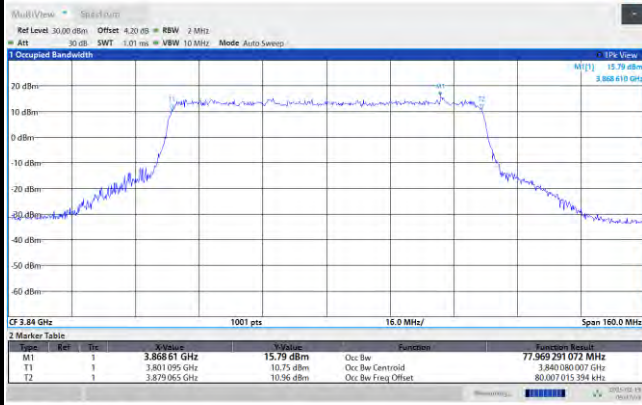
256QAM



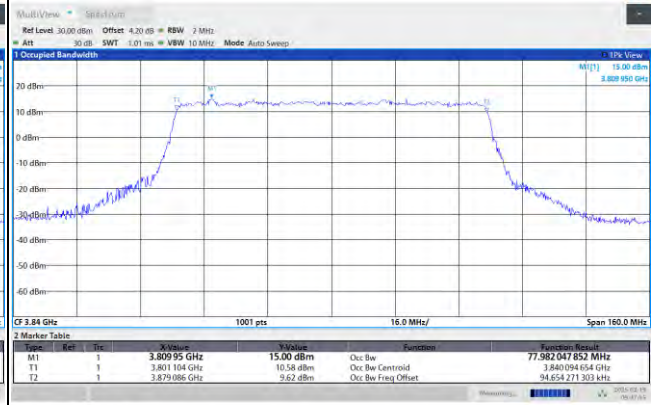


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

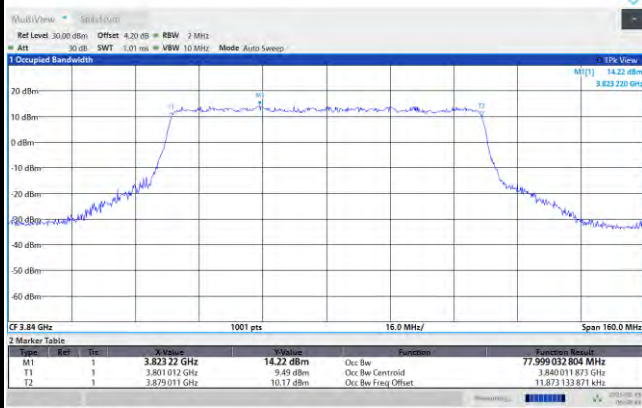
QPSK



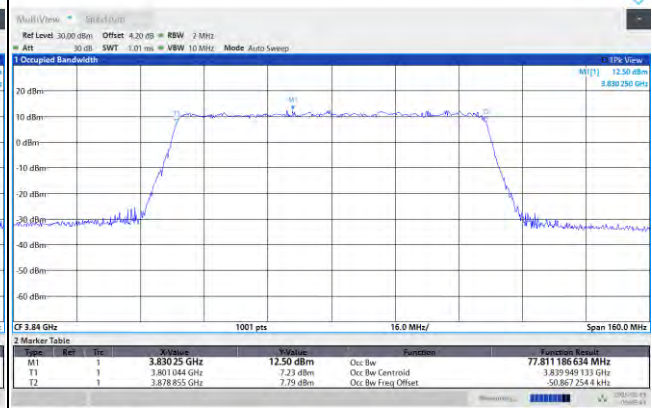
16QAM



64QAM



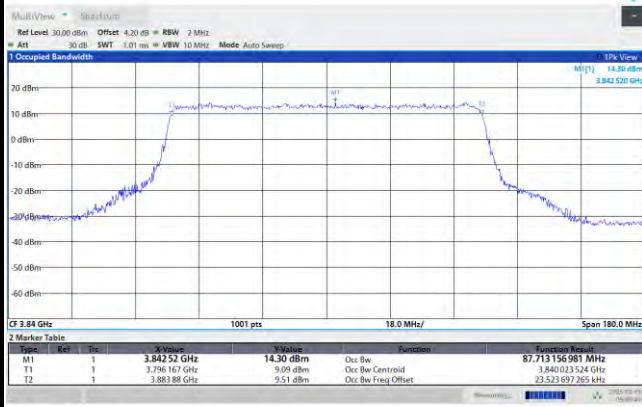
256QAM



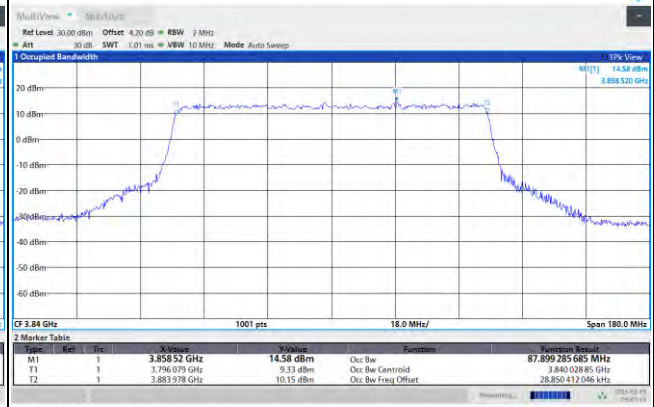


FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

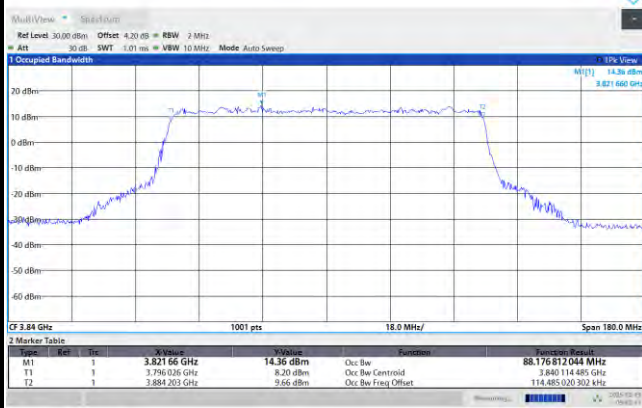
QPSK



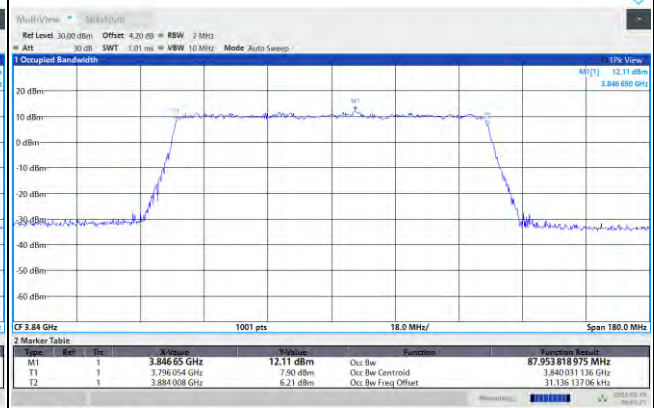
16QAM



64QAM



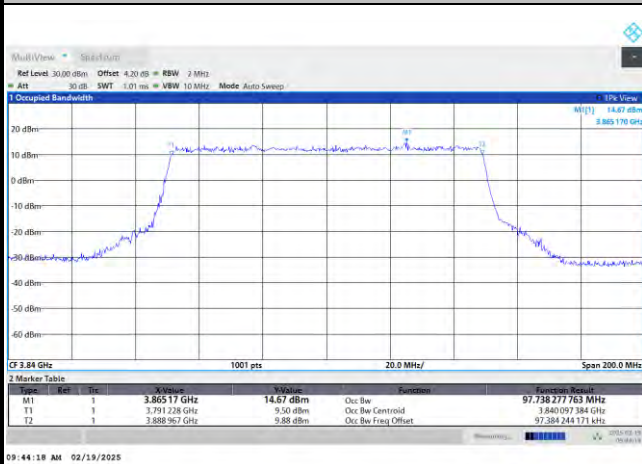
256QAM





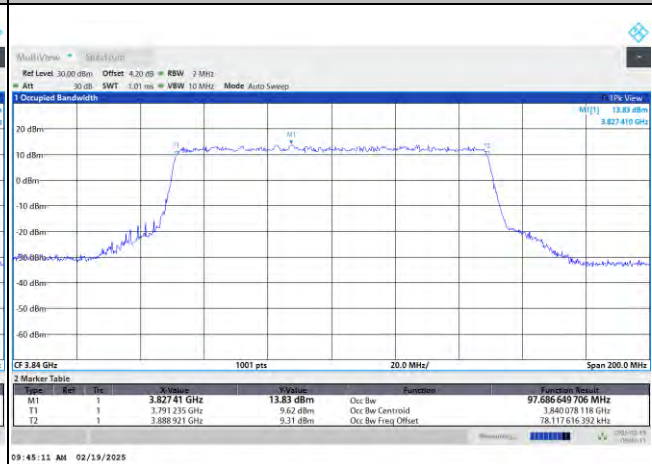
FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



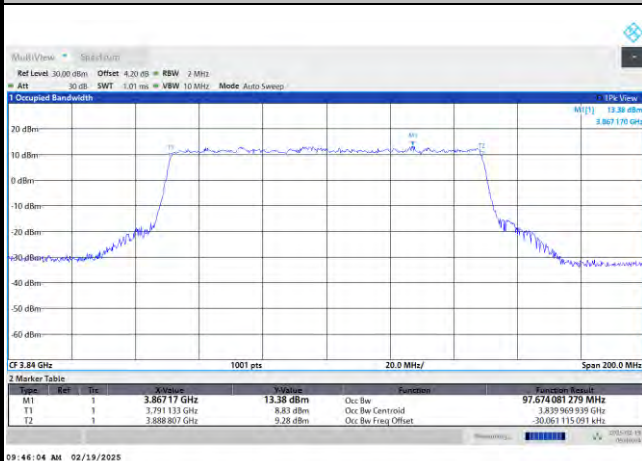
09:44:18 AM 02/19/2025

16QAM



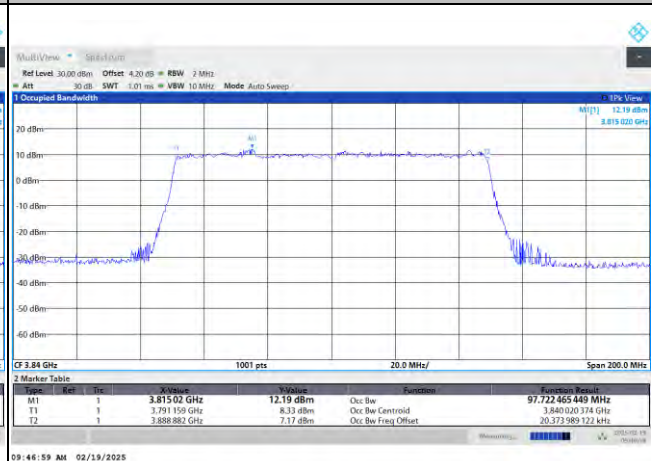
09:45:11 AM 02/19/2025

64QAM

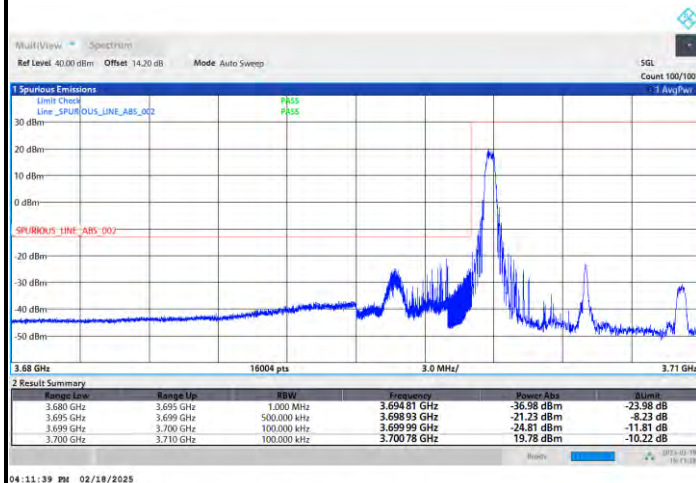
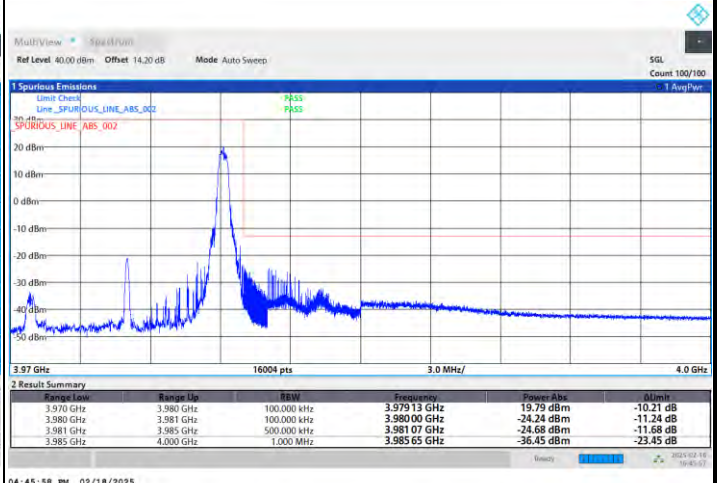
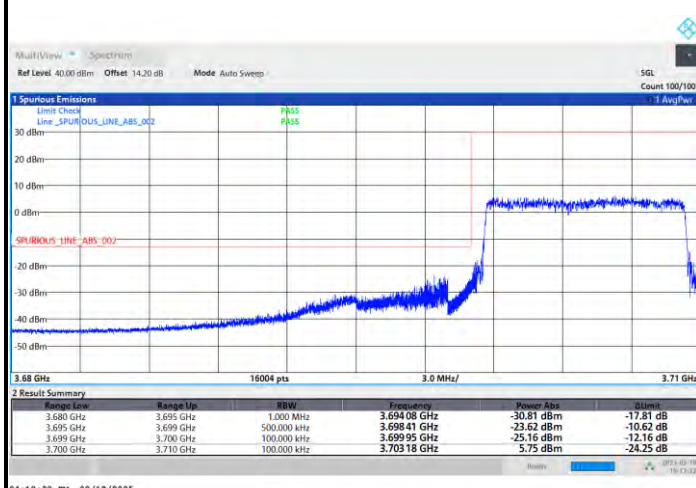
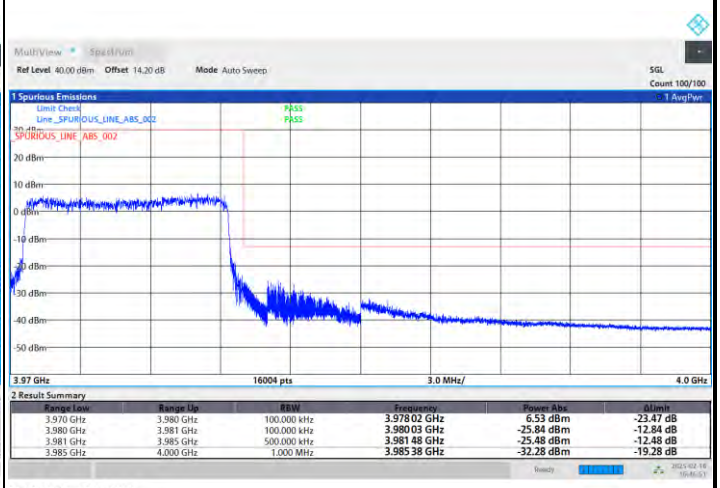


09:46:04 AM 02/19/2025

256QAM



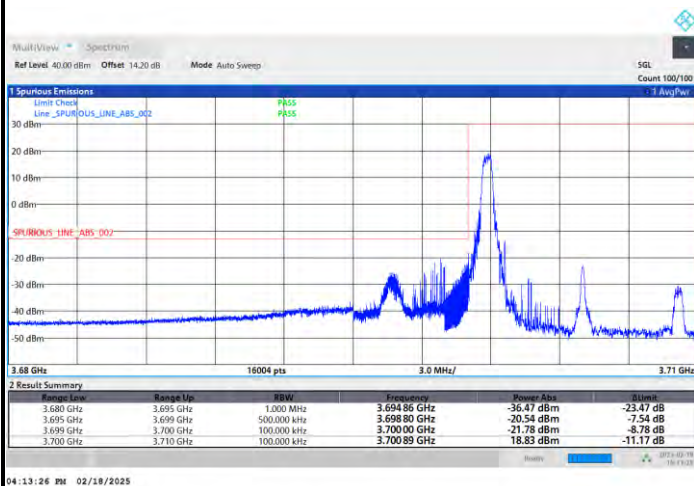
09:46:59 AM 02/19/2025

**Conducted Band Edge****FR1 n77 / 10MHz / CP OFDM / QPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



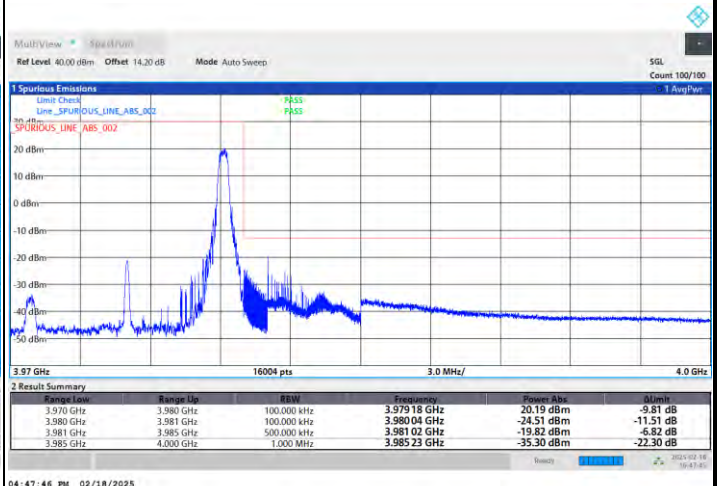
FR1 n77 / 10MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0



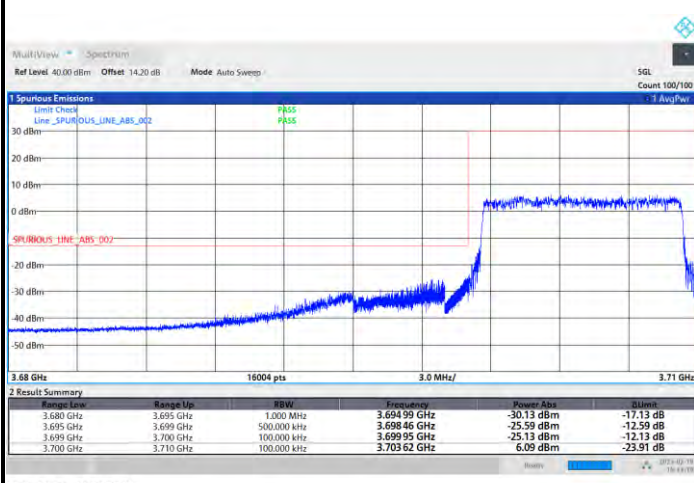
04:13:26 PM 02/18/2025

Highest Band Edge / 1RBmax



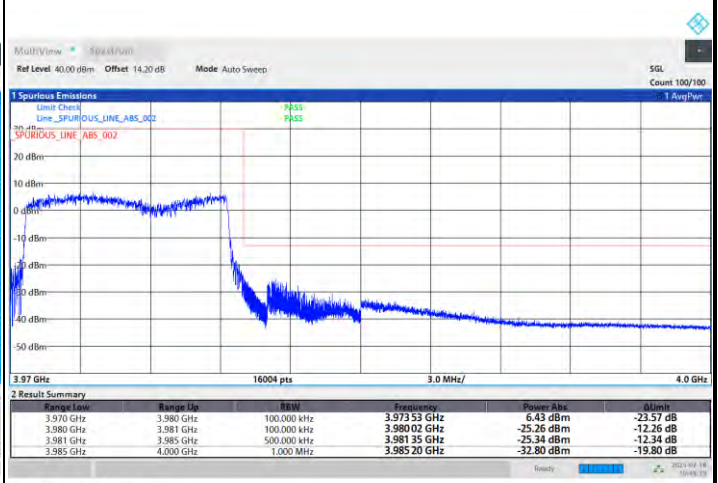
04:47:46 PM 02/18/2025

Lowest Band Edge / Full RB



04:14:20 PM 02/18/2025

Highest Band Edge / Full RB



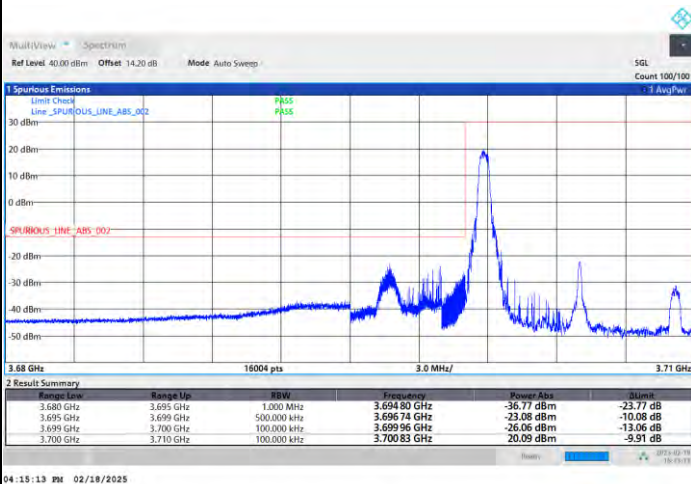
04:48:40 PM 02/18/2025



FR1 n77 / 10MHz / CP OFDM / 64QAM

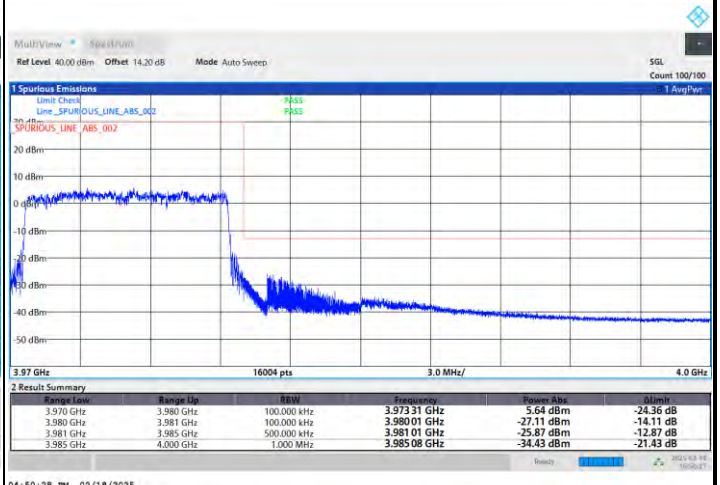
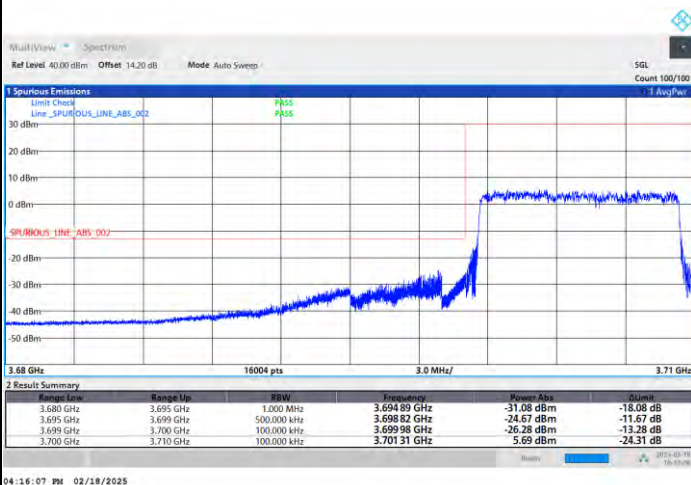
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

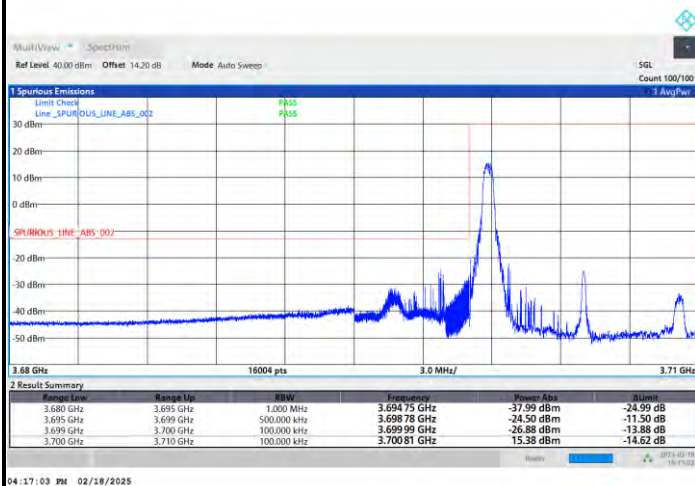
Highest Band Edge / Full RB



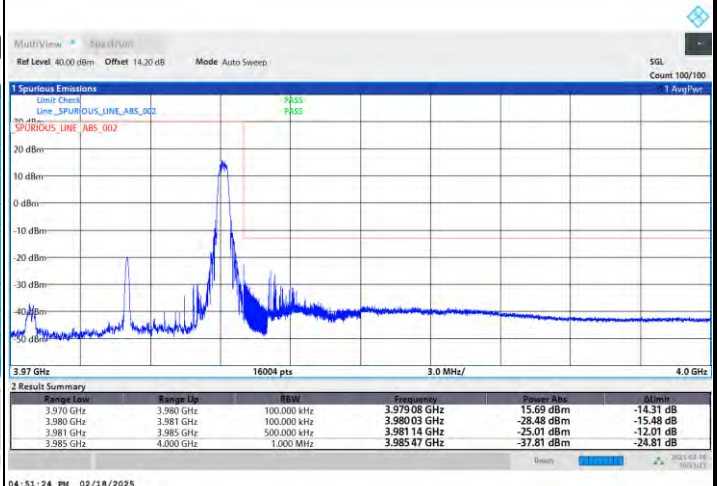


FR1 n77 / 10MHz / CP OFDM / 256QAM

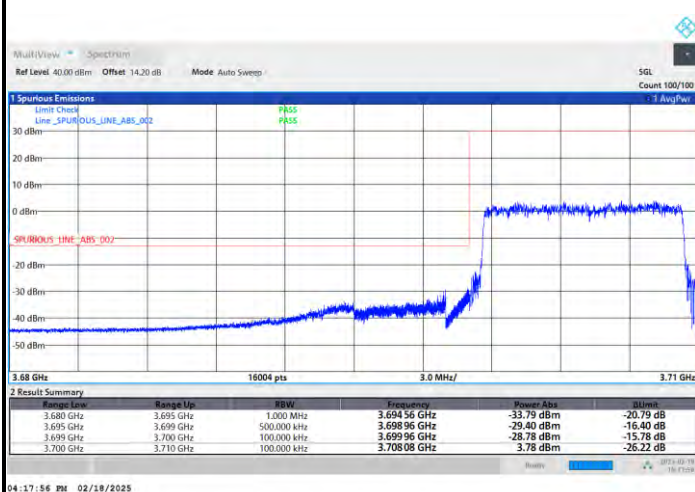
Lowest Band Edge / 1RB0



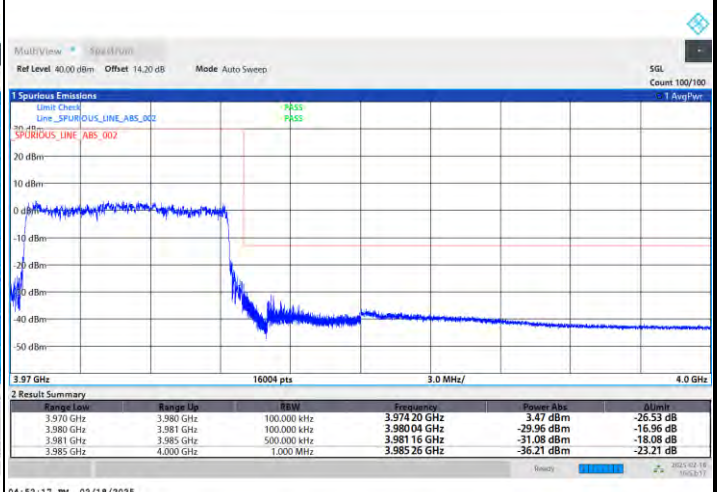
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



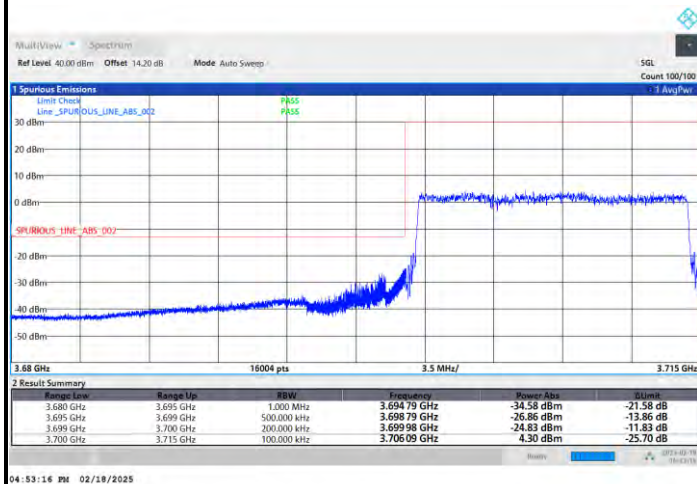
Highest Band Edge / Full RB



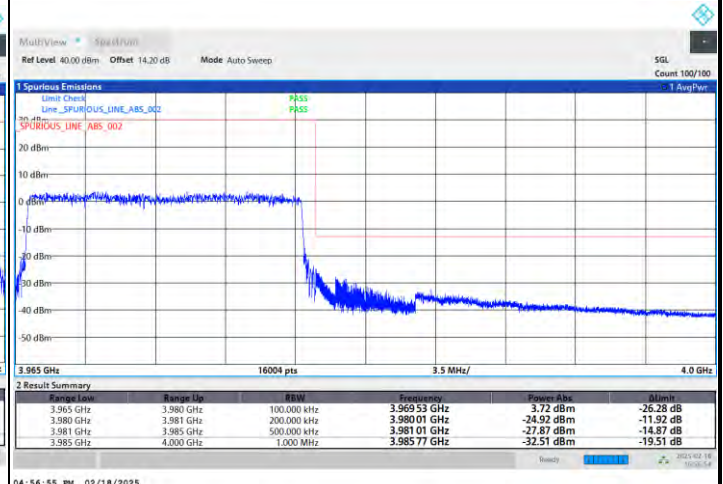


FR1 n77 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

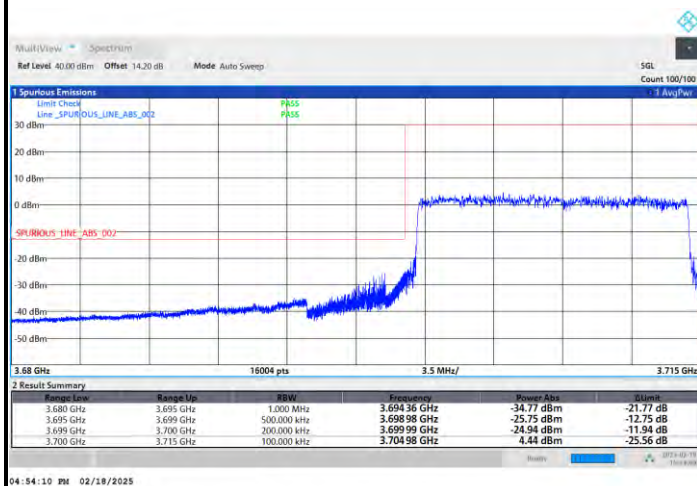


Highest Band Edge / Full RB

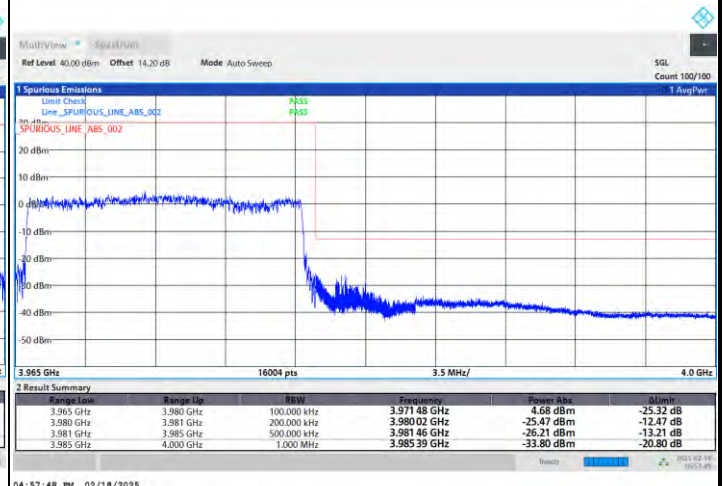


FR1 n77 / 15MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



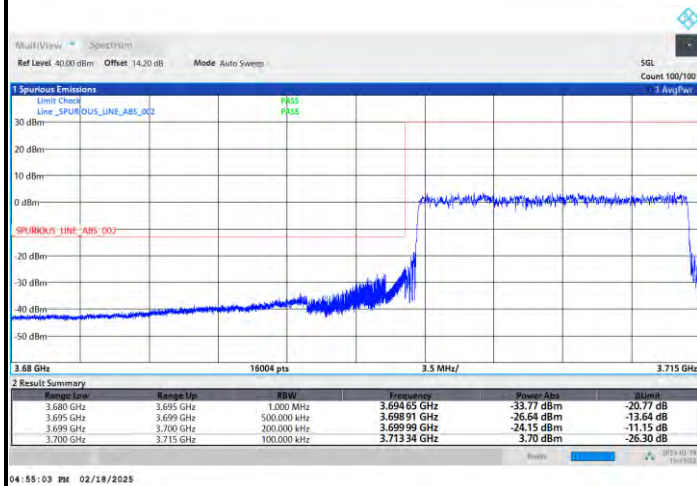
Highest Band Edge / Full RB



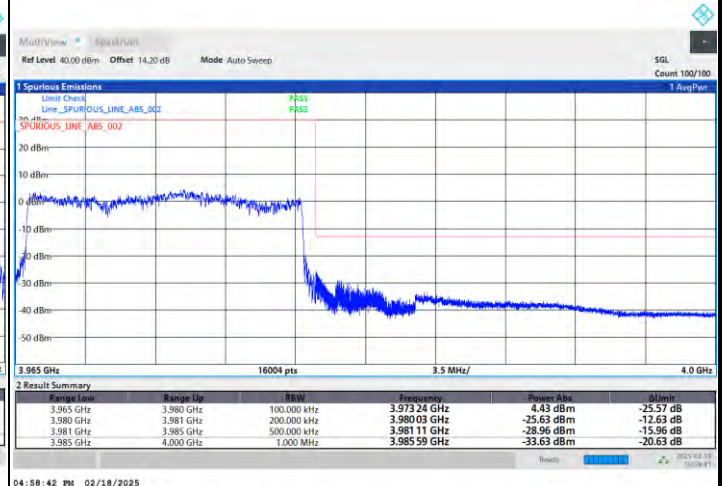


FR1 n77 / 15MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

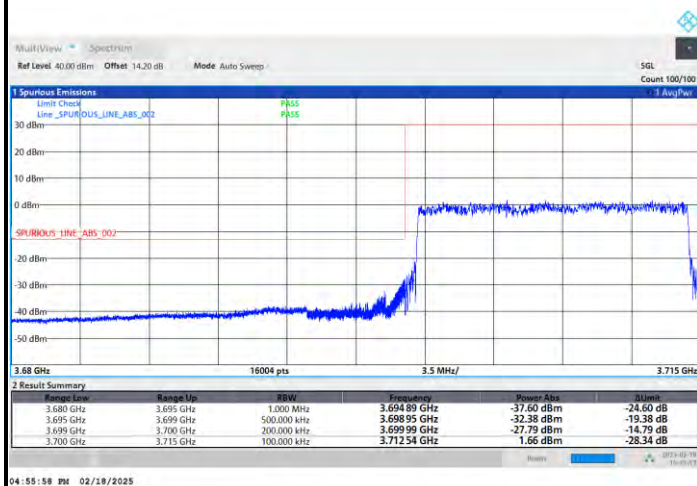


Highest Band Edge / Full RB

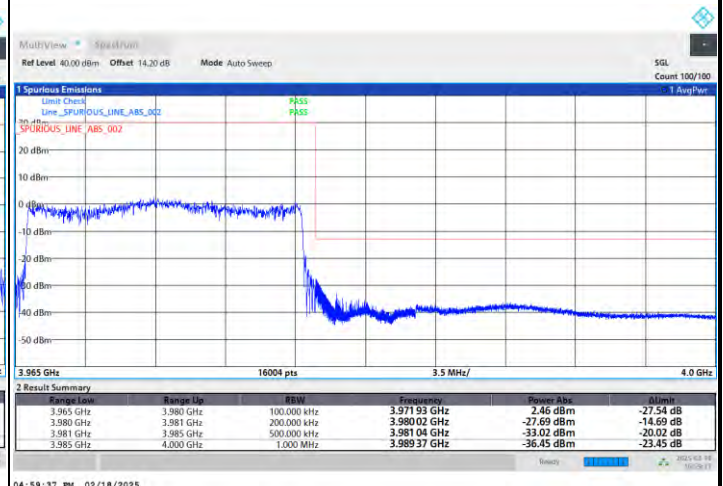


FR1 n77 / 15MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



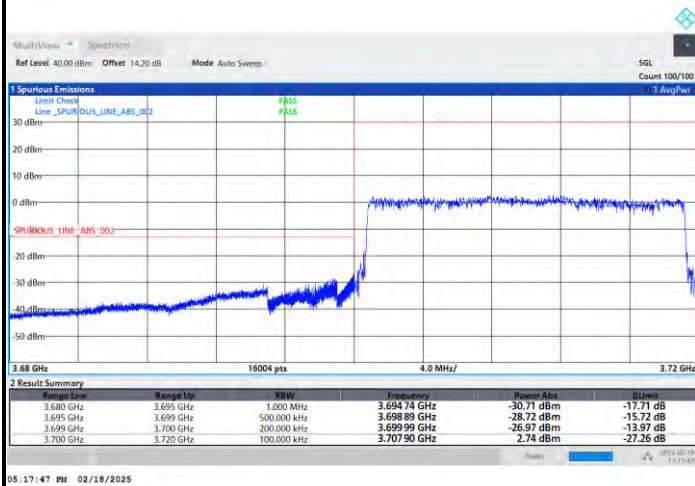
Highest Band Edge / Full RB





FR1 n77 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

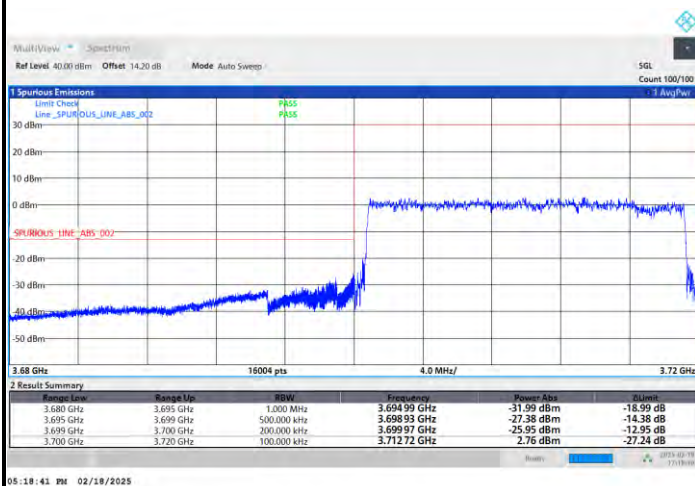


Highest Band Edge / Full RB

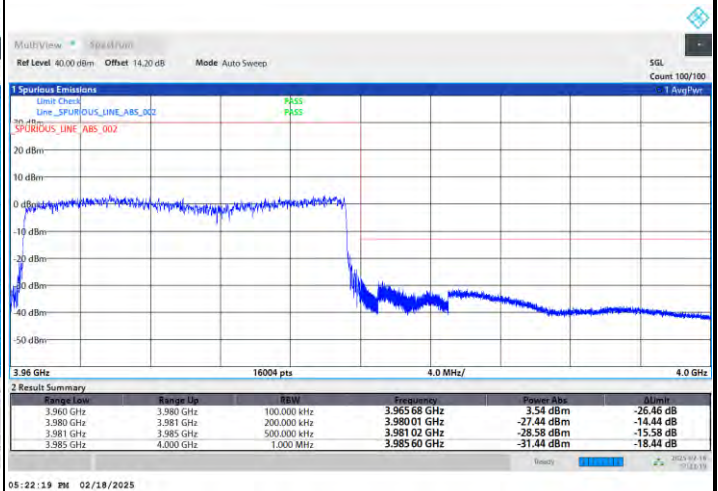


FR1 n77 / 20MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



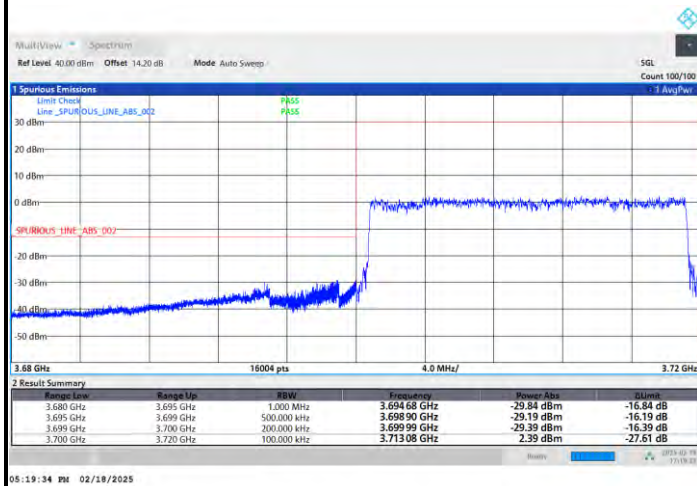
Highest Band Edge / Full RB





FR1 n77 / 20MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

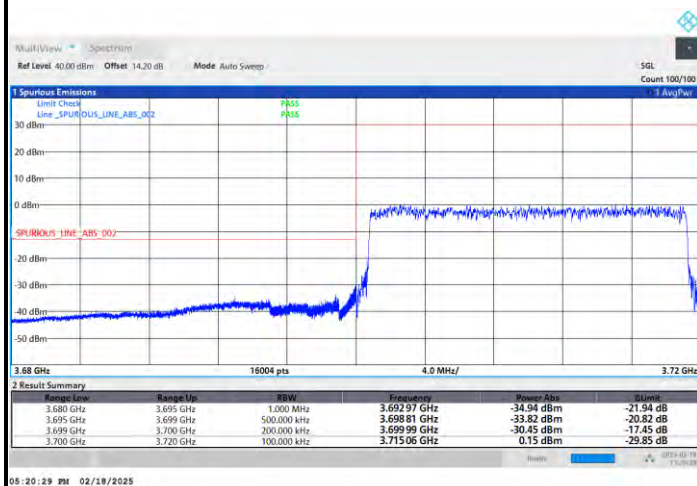


Highest Band Edge / Full RB



FR1 n77 / 20MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



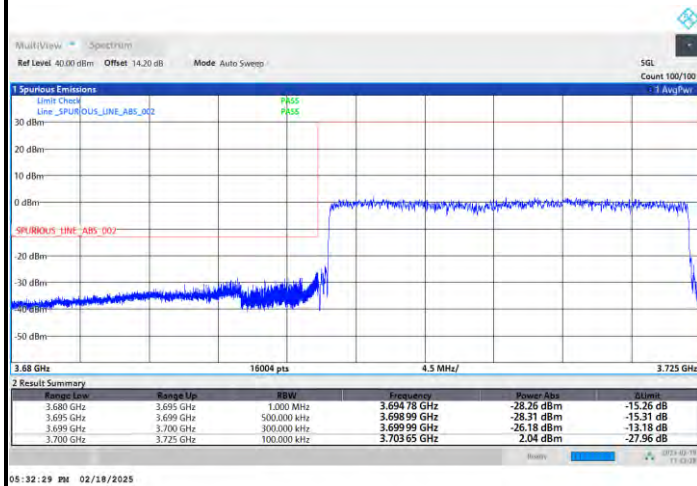
Highest Band Edge / Full RB



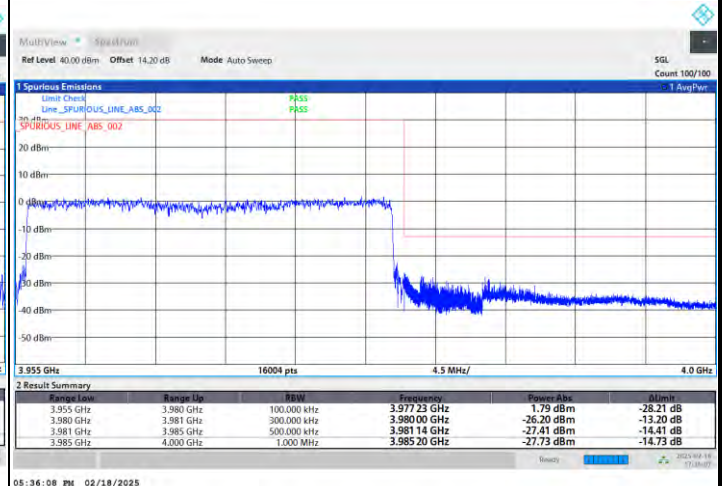


FR1 n77 / 25MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

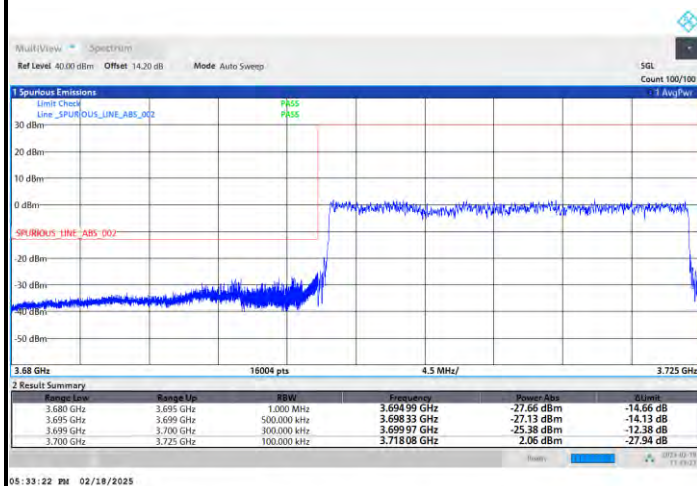


Highest Band Edge / Full RB

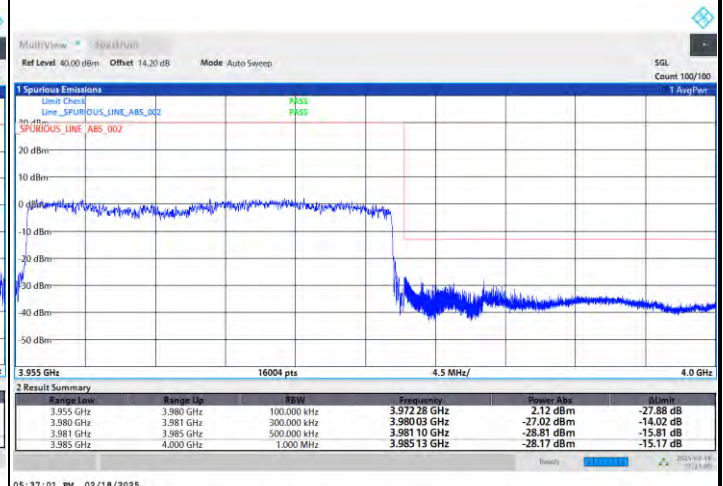


FR1 n77 / 25MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



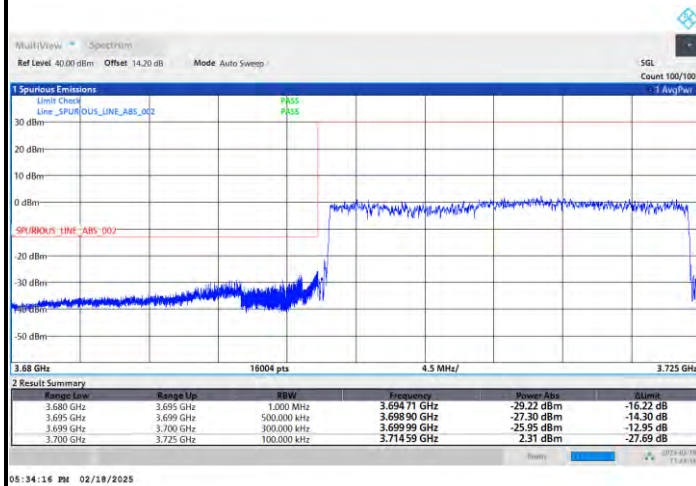
Highest Band Edge / Full RB



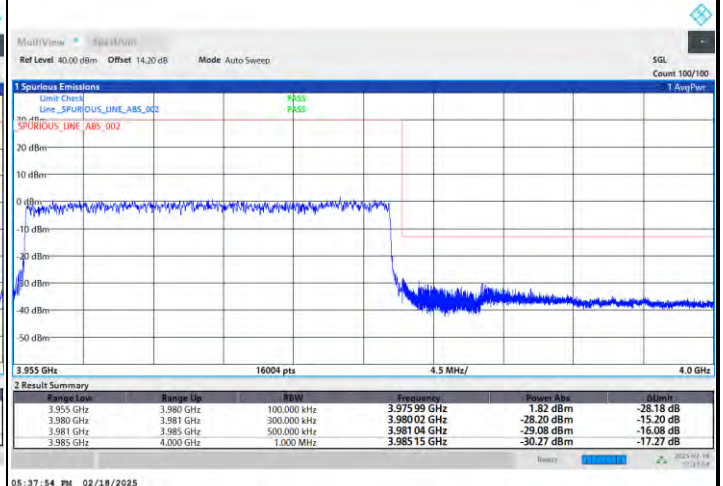


FR1 n77 / 25MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

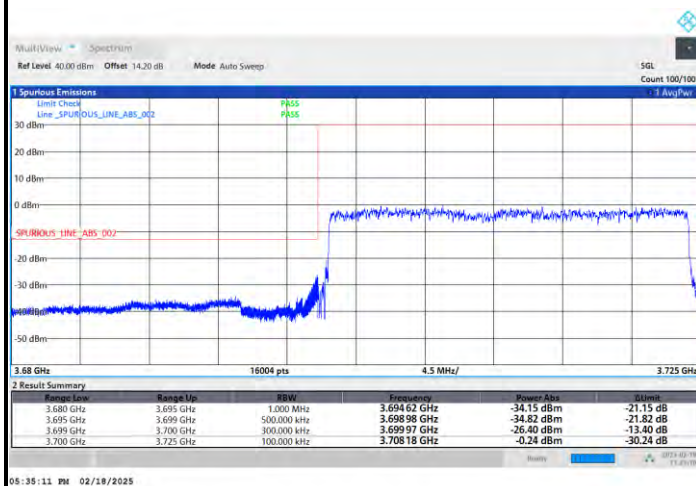


Highest Band Edge / Full RB



FR1 n77 / 25MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



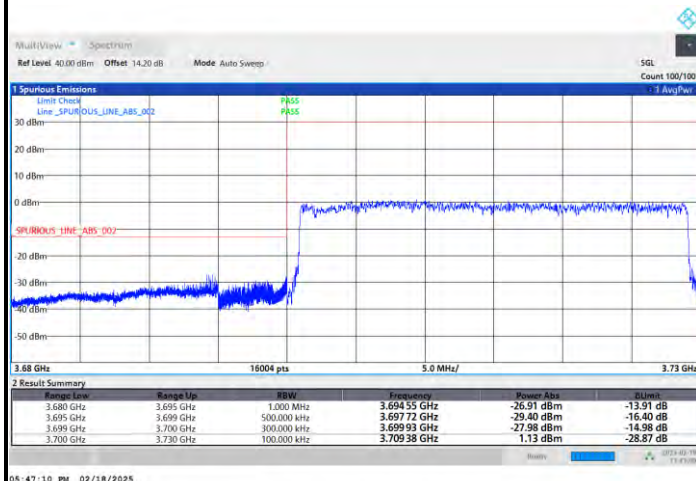
Highest Band Edge / Full RB





FR1 n77 / 30MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

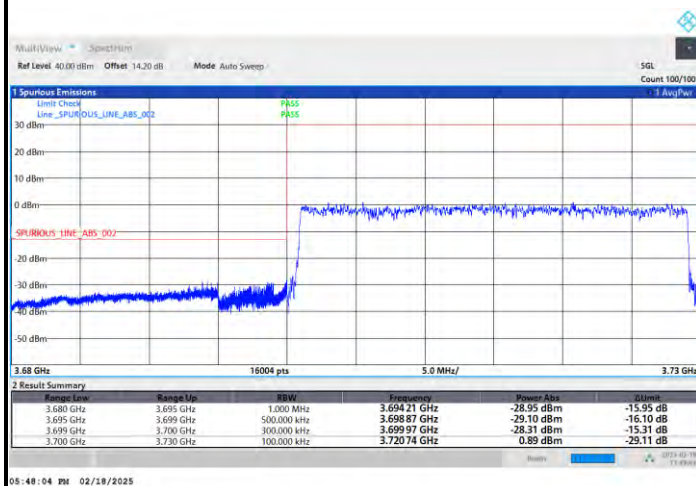


Highest Band Edge / Full RB

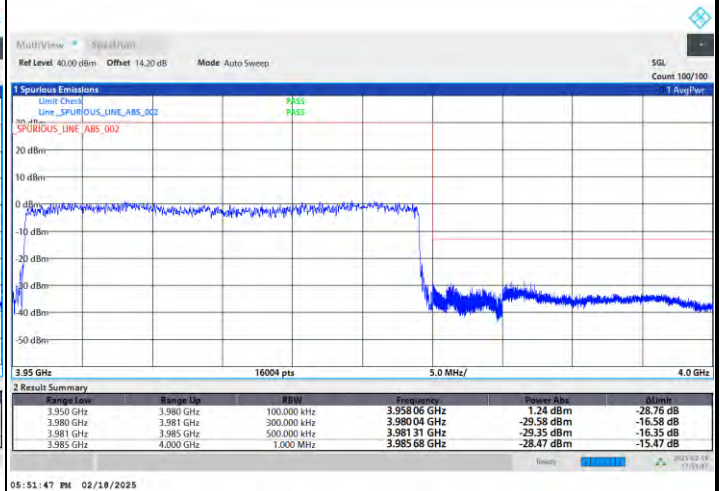


FR1 n77 / 30MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



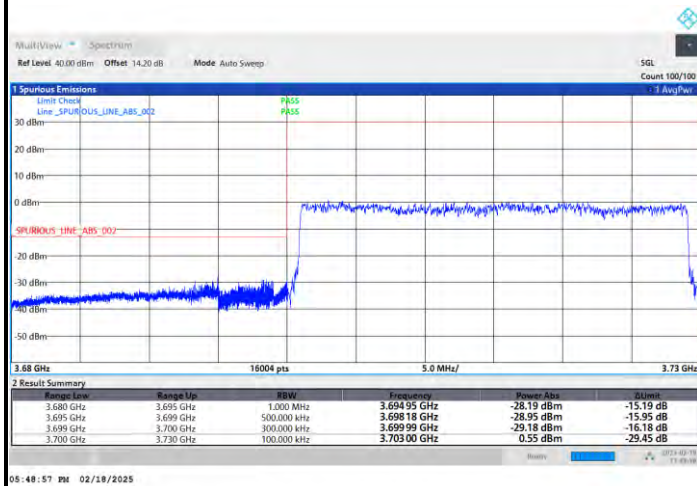
Highest Band Edge / Full RB



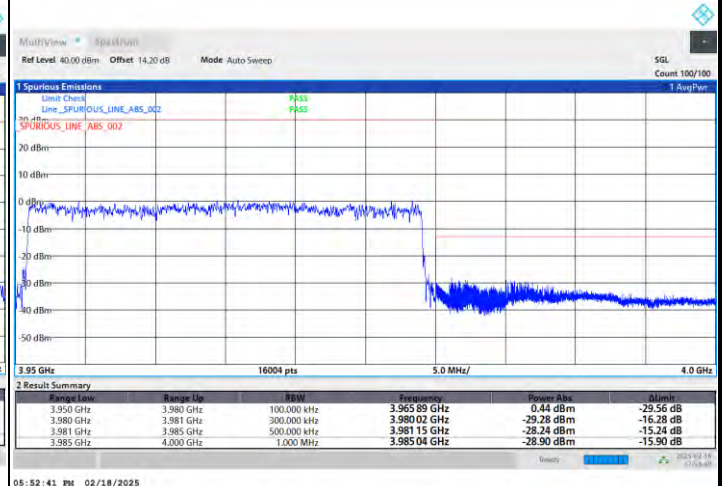


FR1 n77 / 30MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

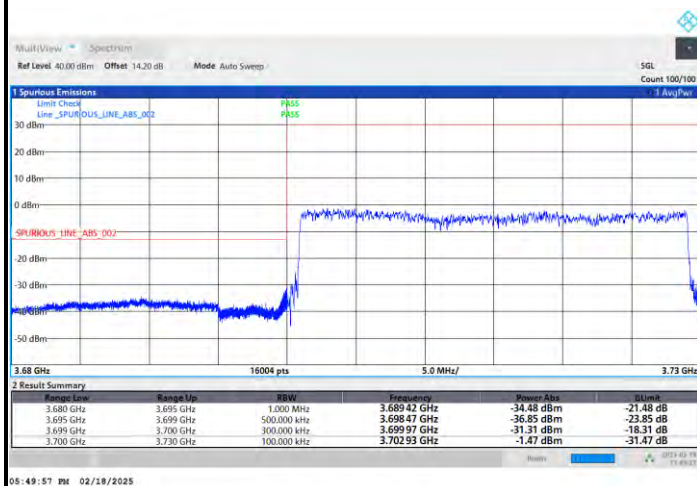


Highest Band Edge / Full RB



FR1 n77 / 30MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



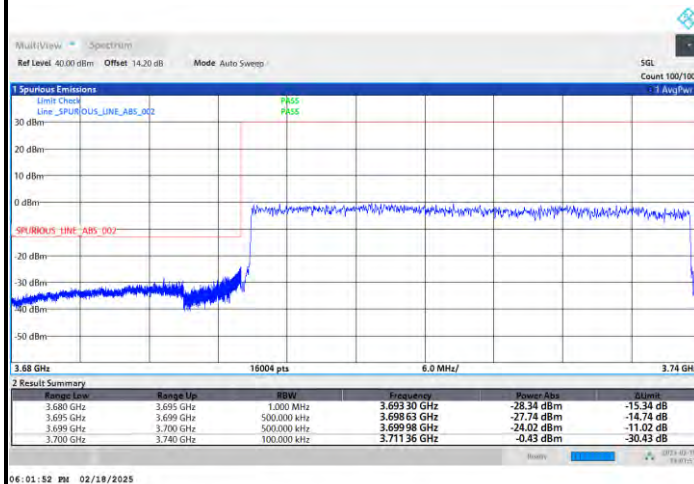
Highest Band Edge / Full RB





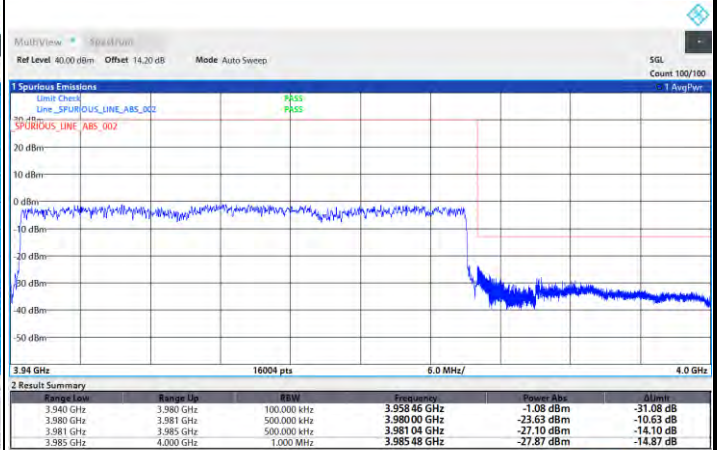
FR1 n77 / 40MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



06:01:52 PM 02/18/2025

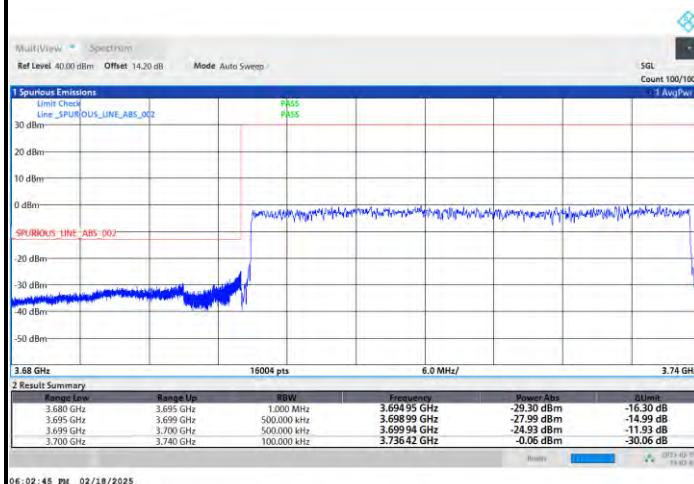
Highest Band Edge / Full RB



06:05:31 PM 02/18/2025

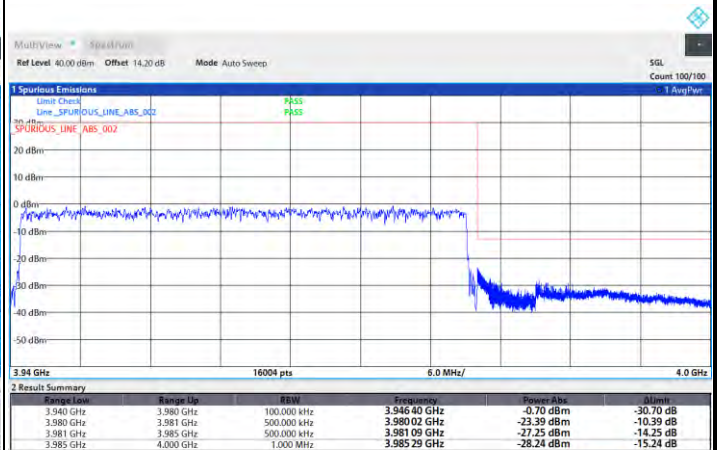
FR1 n77 / 40MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



06:02:45 PM 02/18/2025

Highest Band Edge / Full RB

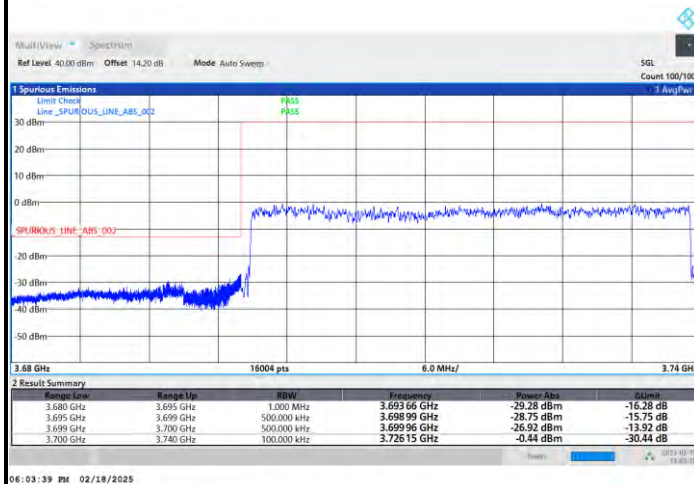


06:06:24 PM 02/18/2025

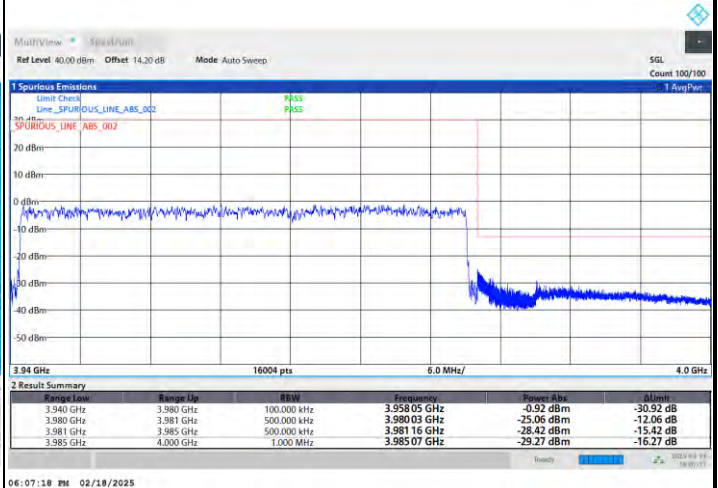


FR1 n77 / 40MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

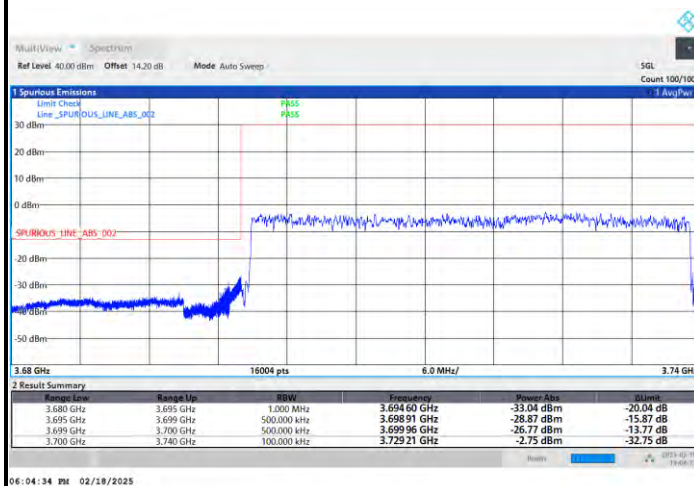


Highest Band Edge / Full RB



FR1 n77 / 40MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



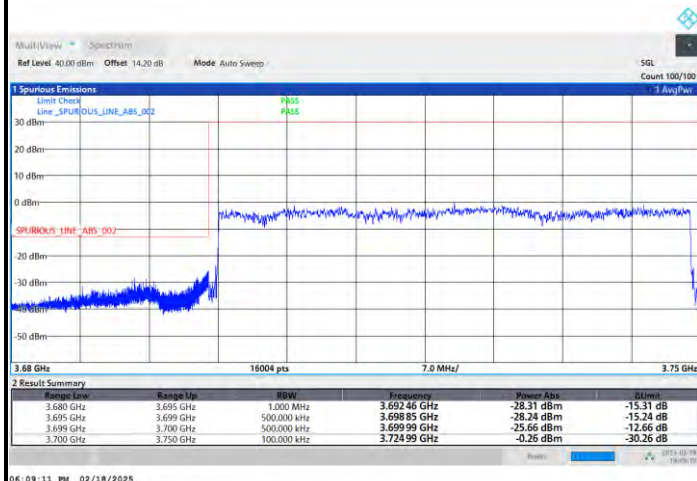
Highest Band Edge / Full RB





FR1 n77 / 50MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



06:09:11 PM 02/18/2025

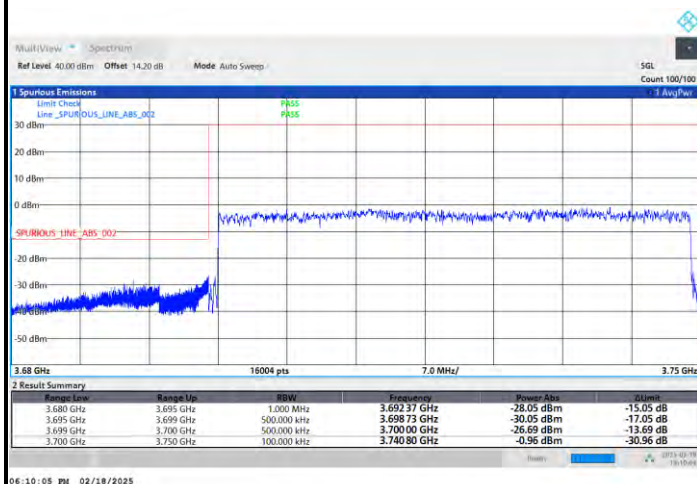
Highest Band Edge / Full RB



06:12:50 PM 02/18/2025

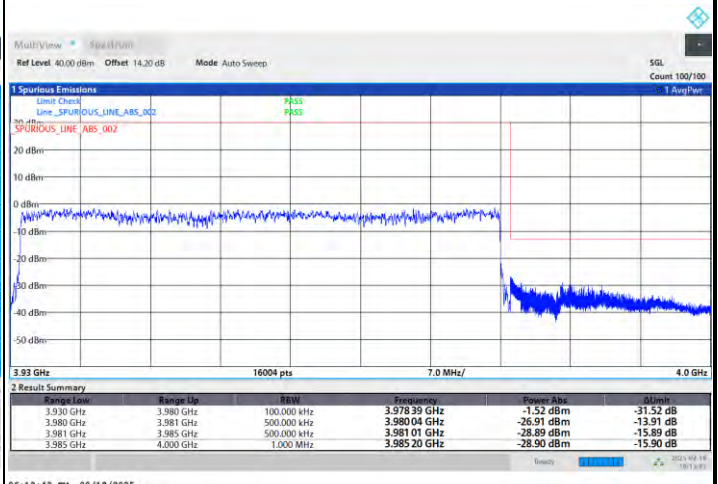
FR1 n77 / 50MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



06:10:05 PM 02/18/2025

Highest Band Edge / Full RB

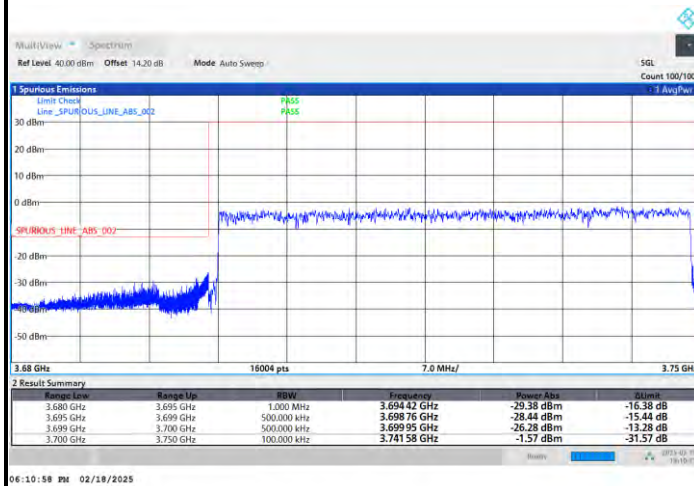


06:13:43 PM 02/18/2025



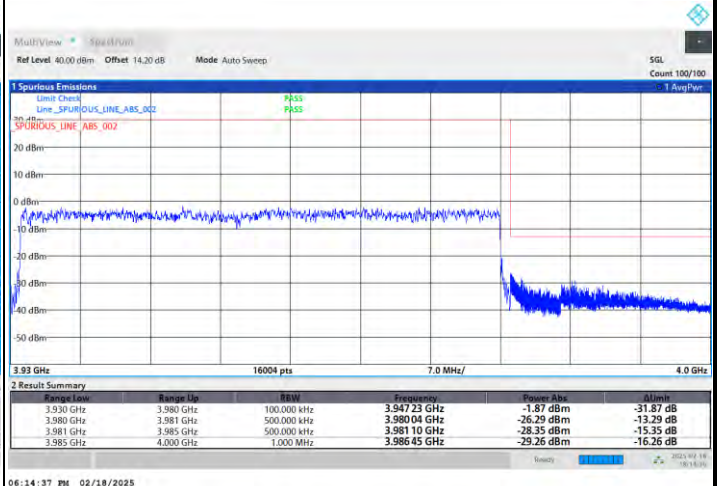
FR1 n77 / 50MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



06:10:58 PM 02/18/2025

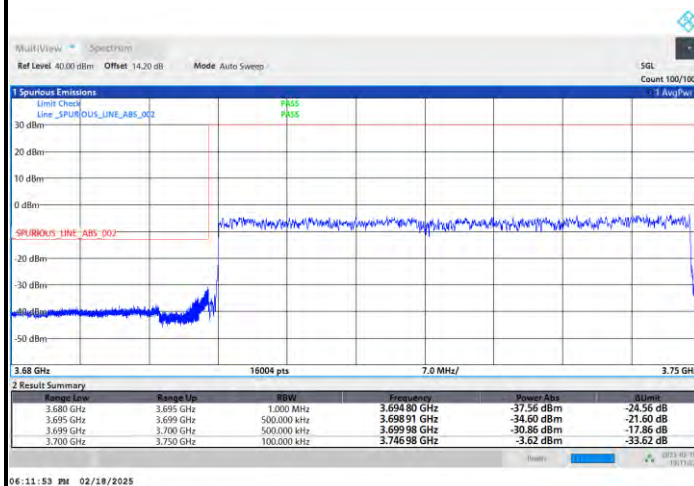
Highest Band Edge / Full RB



06:14:37 PM 02/18/2025

FR1 n77 / 50MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



06:11:53 PM 02/18/2025

Highest Band Edge / Full RB



06:15:32 PM 02/18/2025



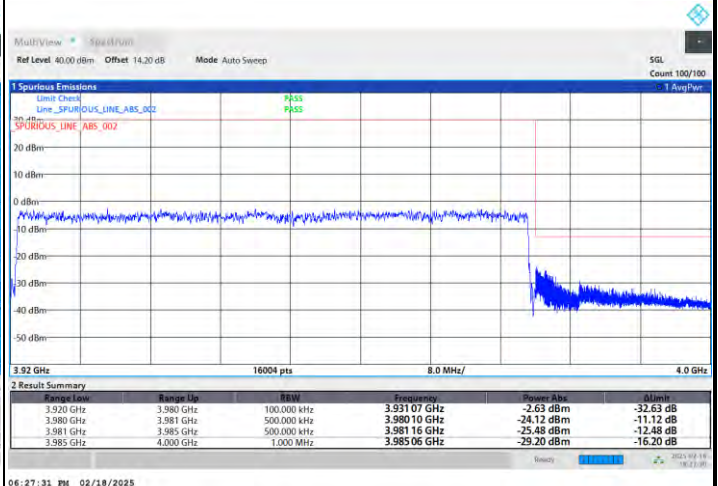
FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



06:23:49 PM 02/18/2025

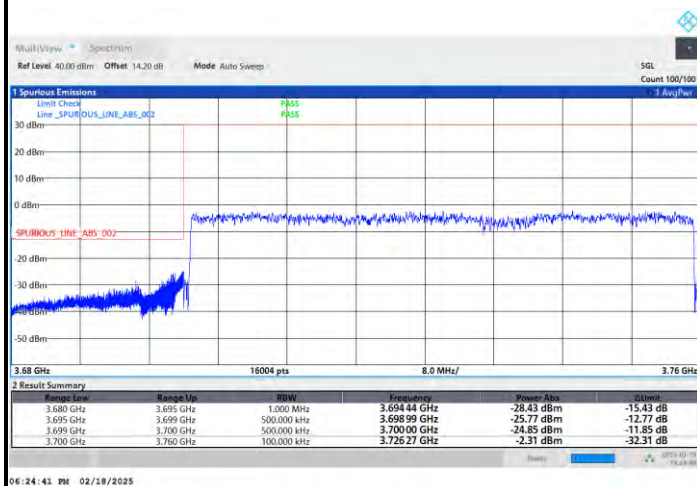
Highest Band Edge / Full RB



06:27:31 PM 02/18/2025

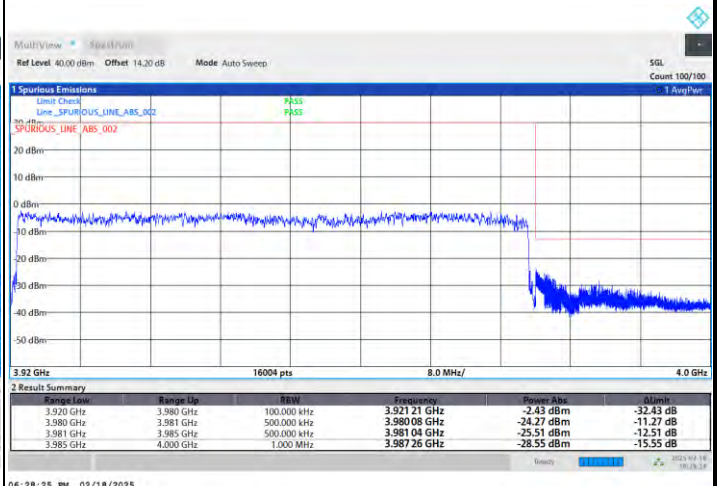
FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



06:24:41 PM 02/18/2025

Highest Band Edge / Full RB

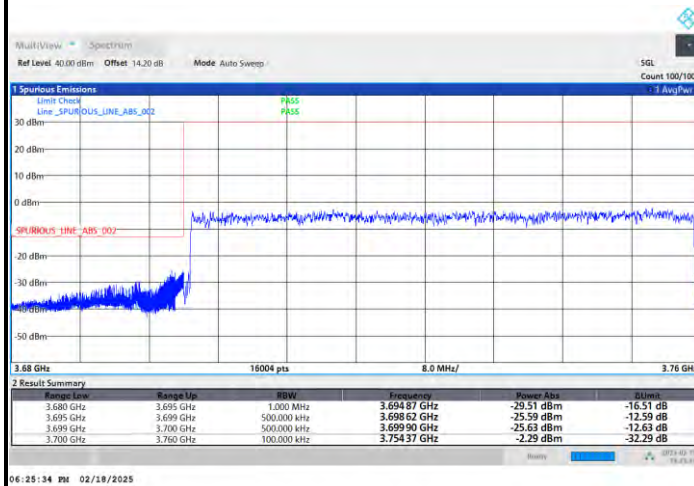


06:28:25 PM 02/18/2025



FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

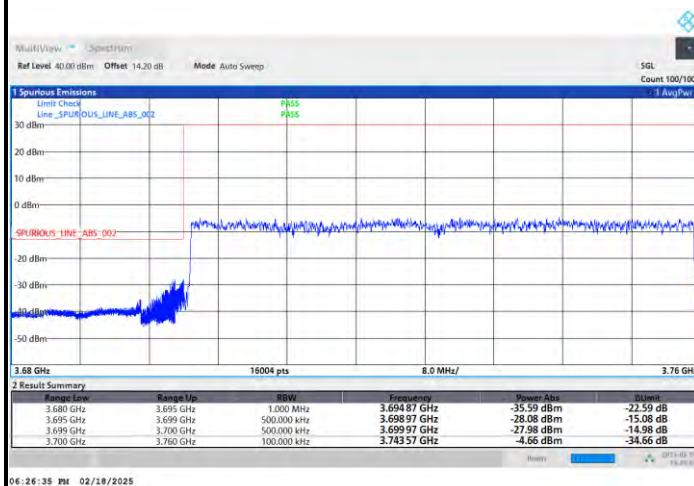


Highest Band Edge / Full RB

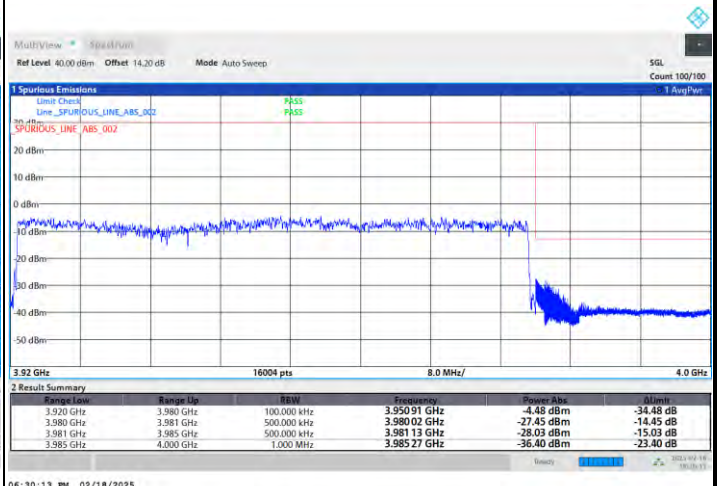


FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



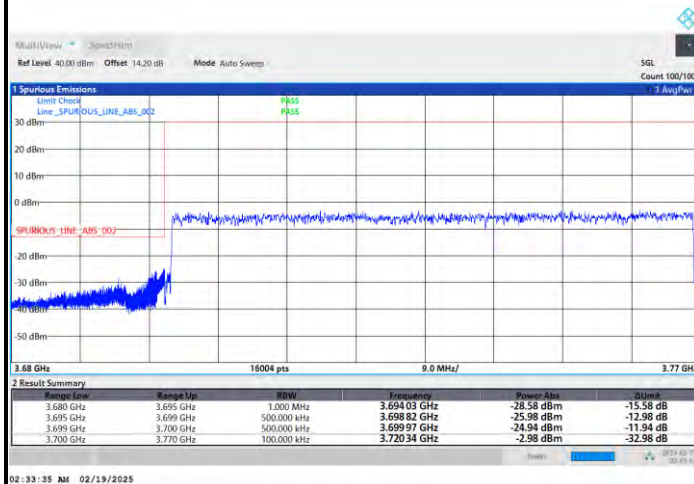
Highest Band Edge / Full RB





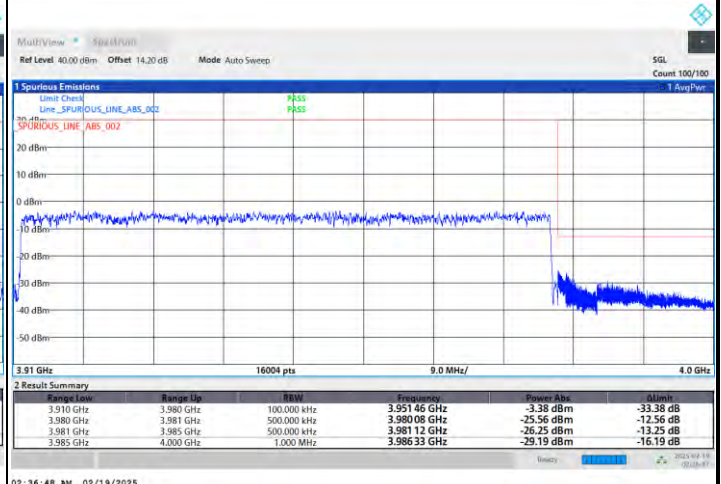
FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



02:33:35 AM 02/19/2025

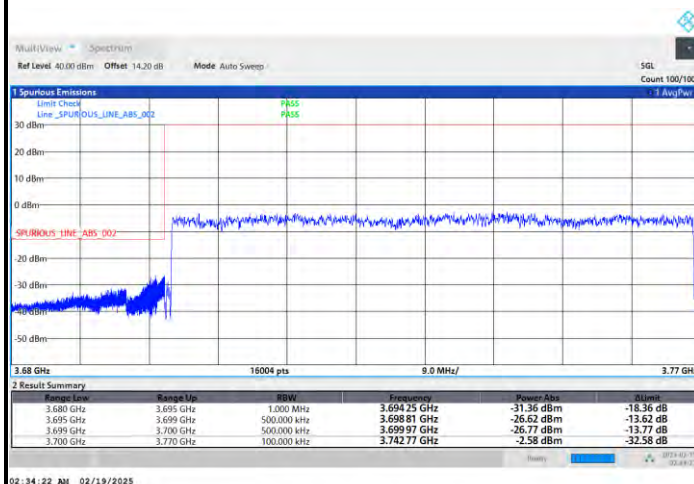
Highest Band Edge / Full RB



02:36:48 AM 02/19/2025

FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



02:34:22 AM 02/19/2025

Highest Band Edge / Full RB

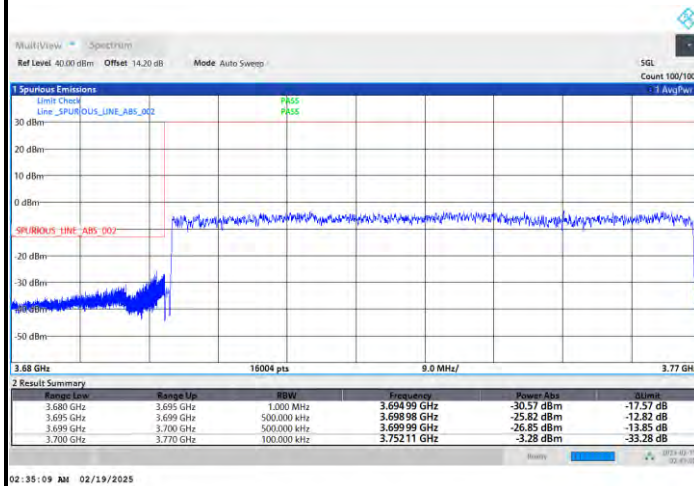


02:37:35 AM 02/19/2025



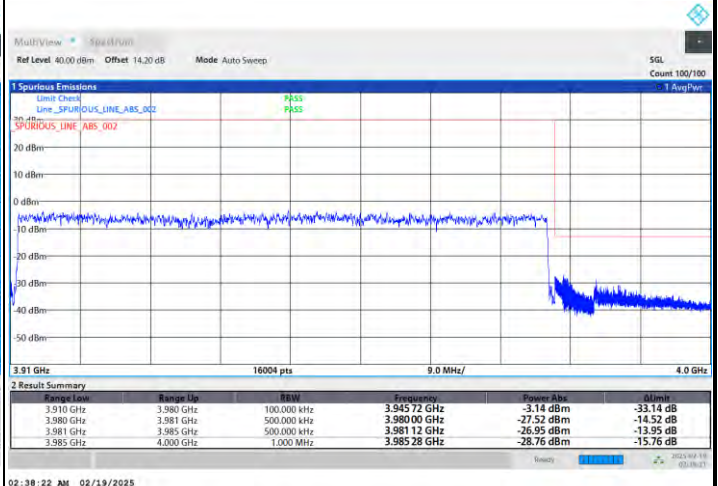
FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



02:35:09 AM 02/19/2025

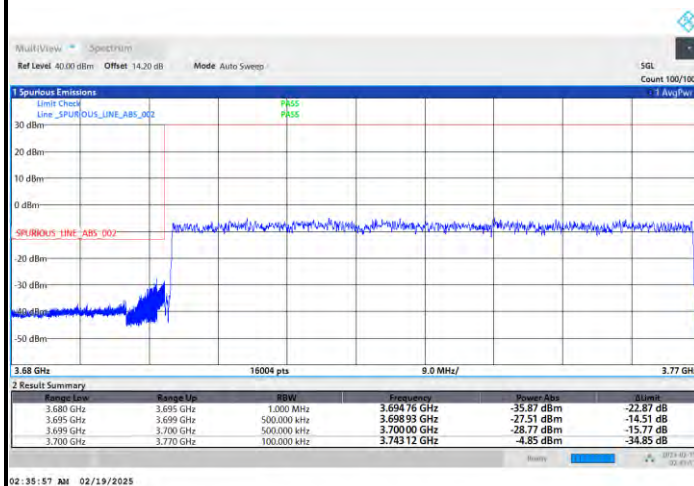
Highest Band Edge / Full RB



02:38:22 AM 02/19/2025

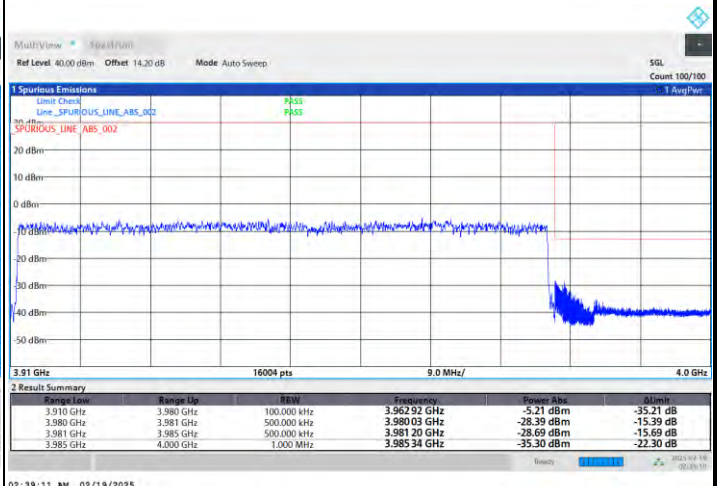
FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



02:35:57 AM 02/19/2025

Highest Band Edge / Full RB

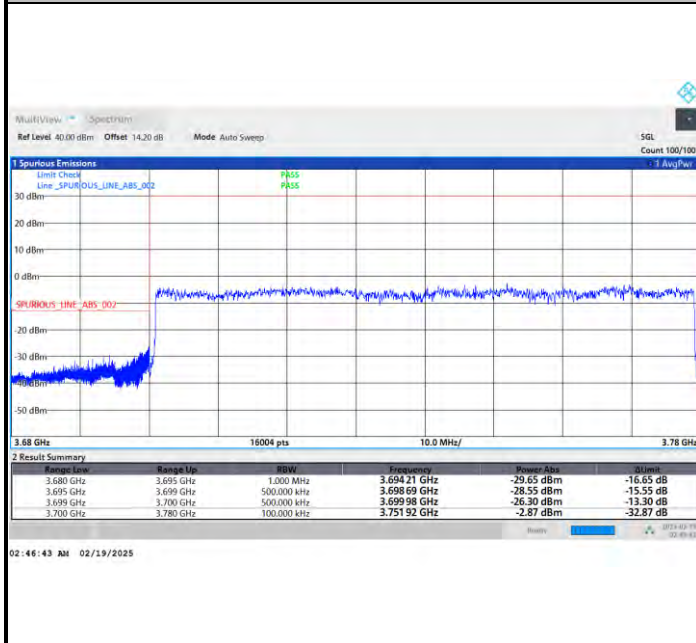


02:39:11 AM 02/19/2025

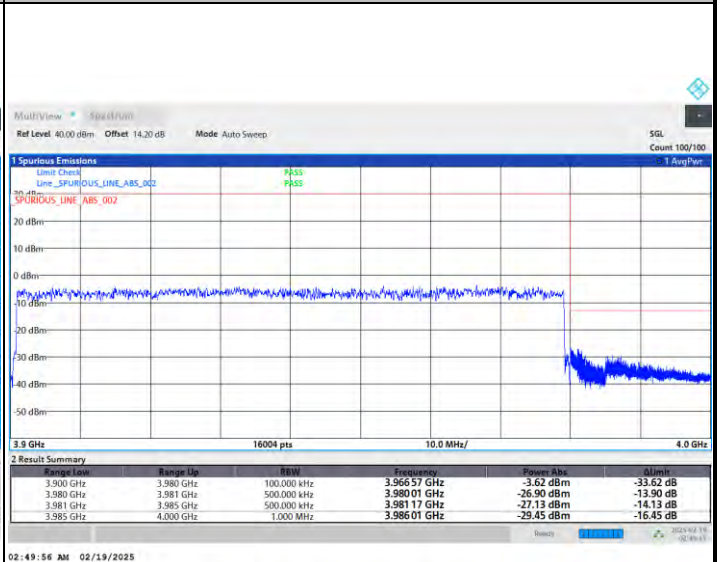


FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

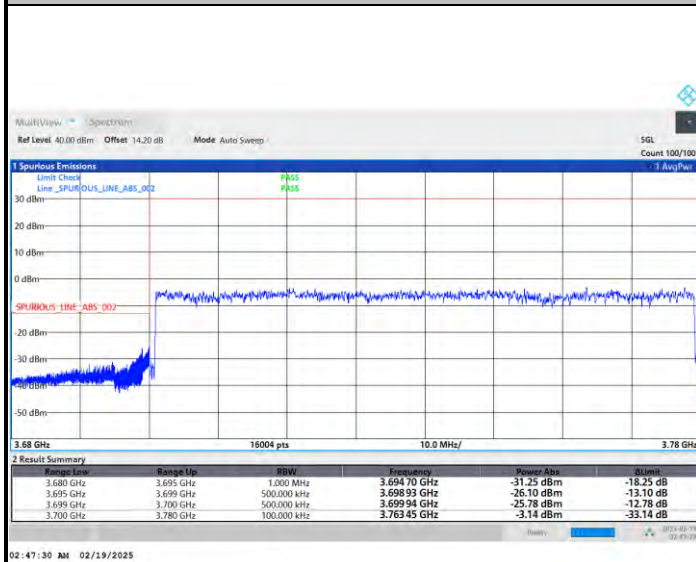


Highest Band Edge / Full RB

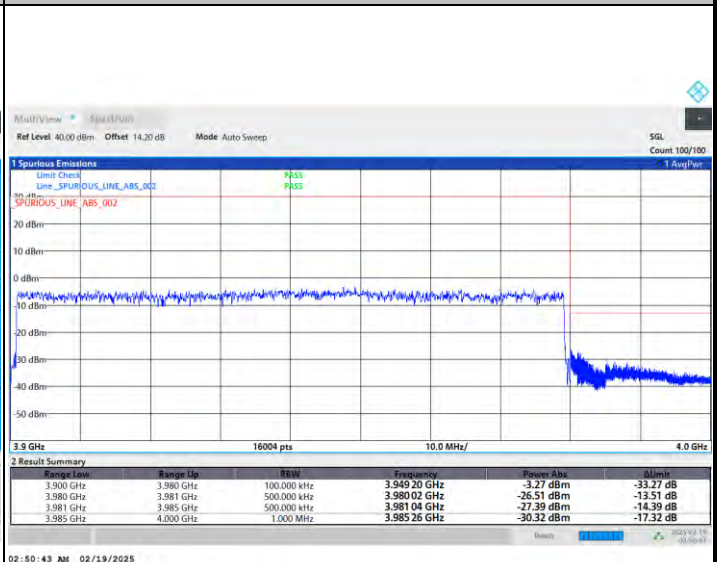


FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



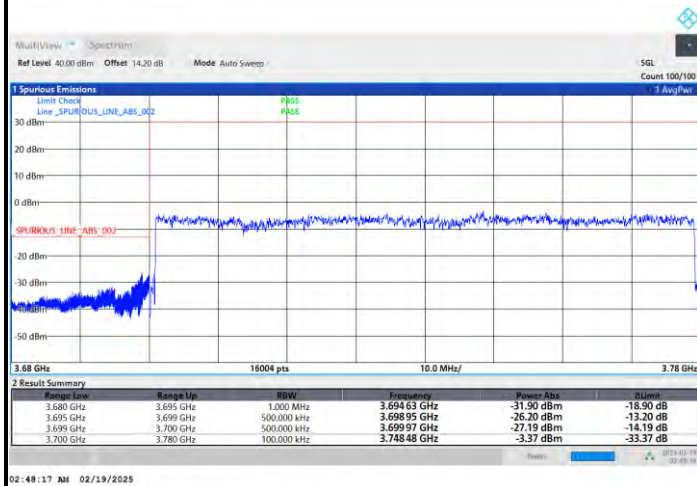
Highest Band Edge / Full RB





FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



02:48:17 AM 02/19/2025

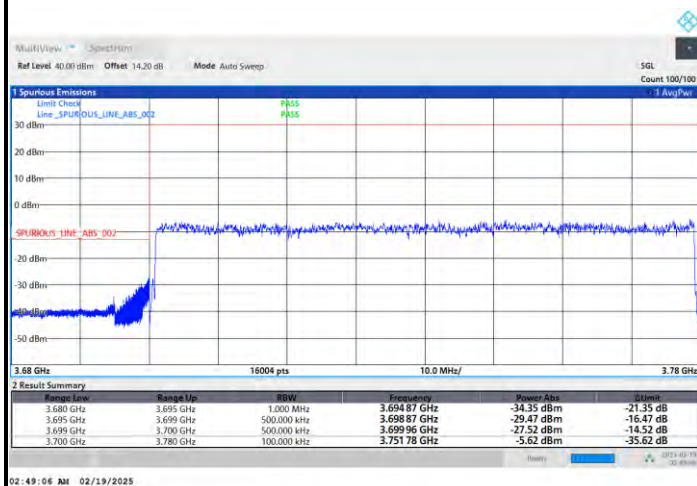
Highest Band Edge / Full RB



02:51:30 AM 02/19/2025

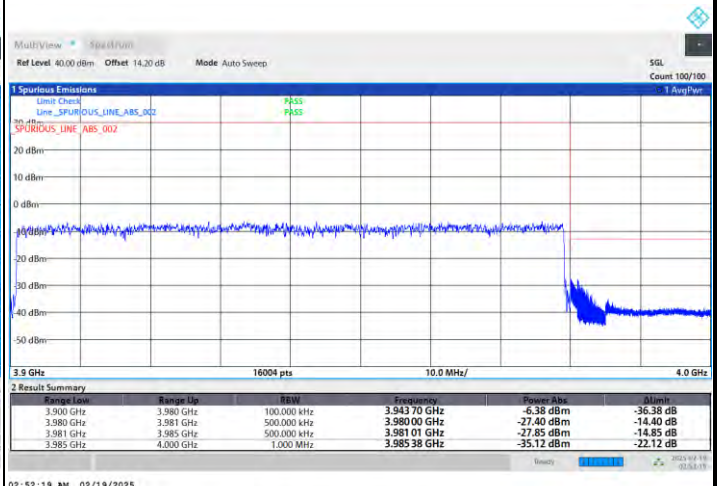
FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



02:49:06 AM 02/19/2025

Highest Band Edge / Full RB

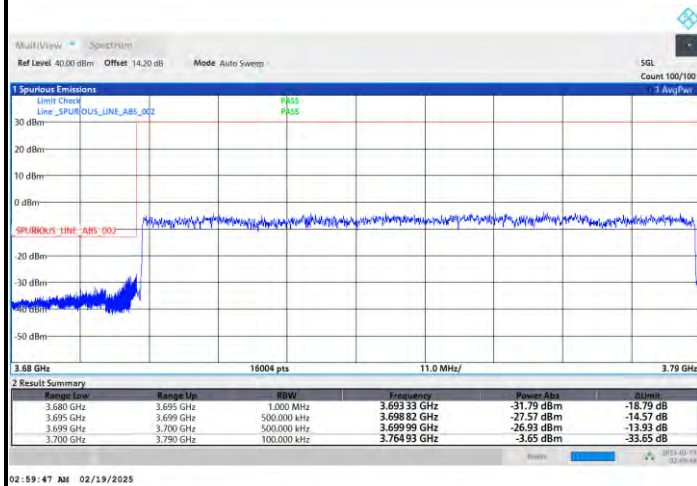


02:52:19 AM 02/19/2025



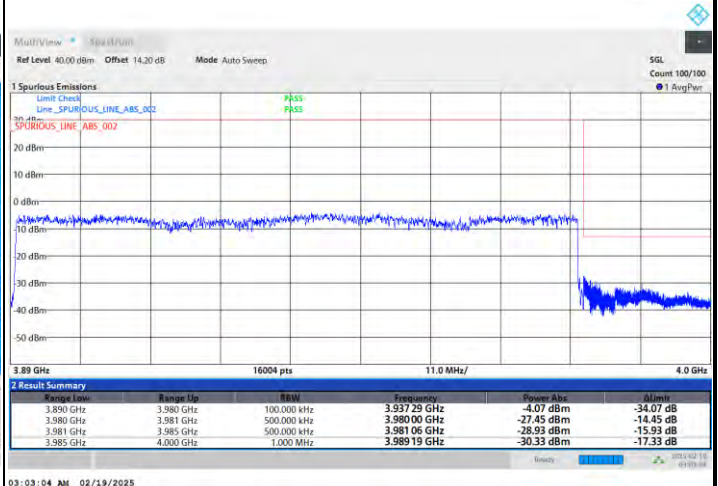
FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



02:59:47 AM 02/19/2025

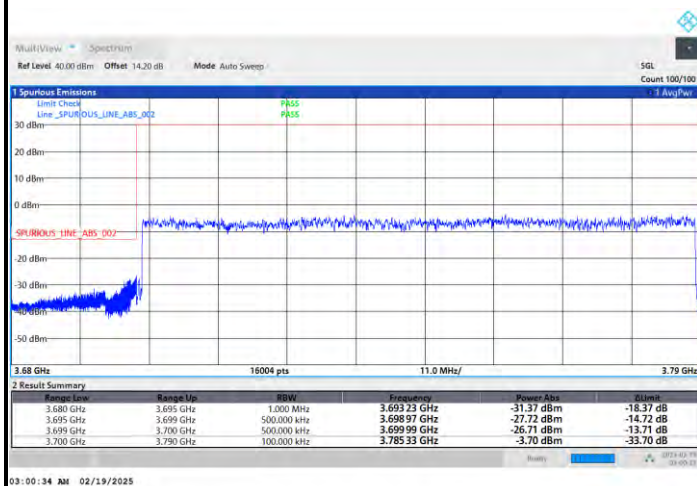
Highest Band Edge / Full RB



03:03:04 AM 02/19/2025

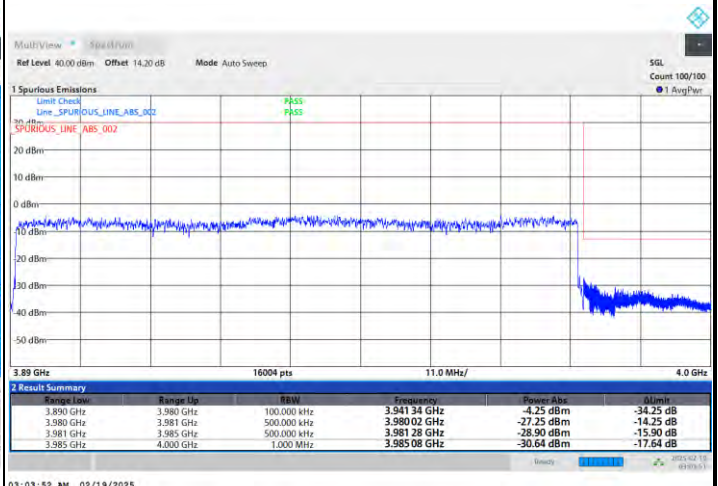
FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



03:00:34 AM 02/19/2025

Highest Band Edge / Full RB

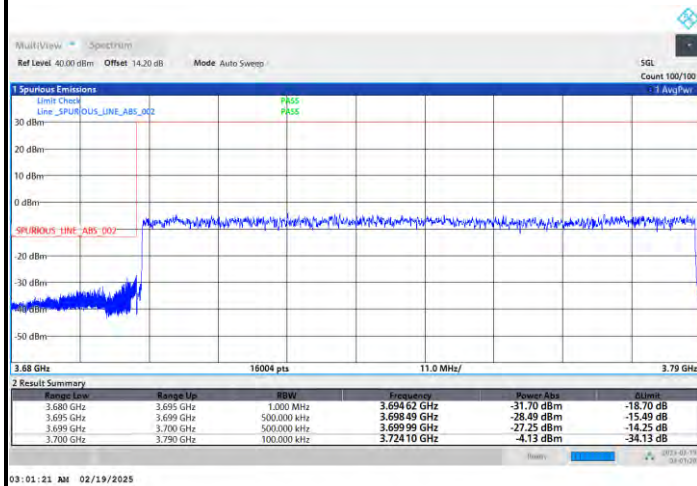


03:03:52 AM 02/19/2025



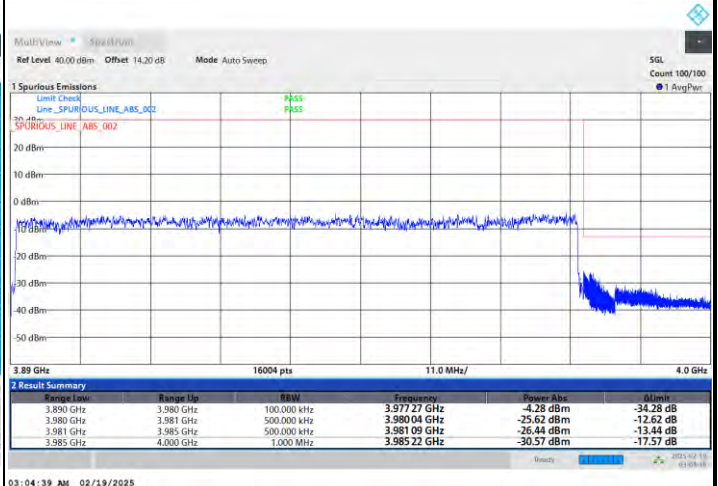
FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



03:01:21 AM 02/19/2025

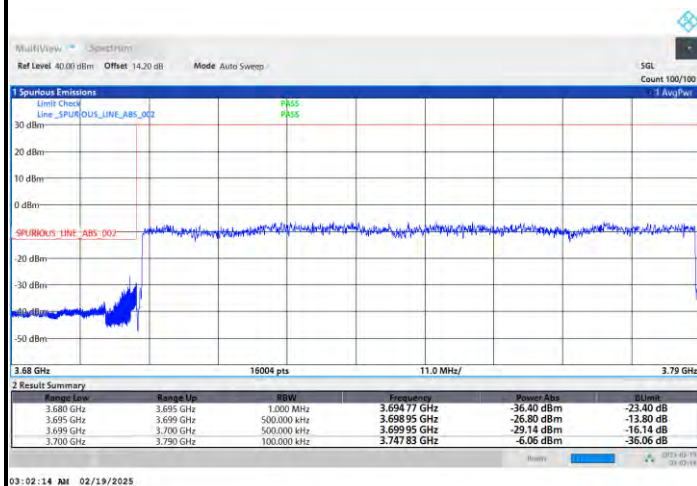
Highest Band Edge / Full RB



03:04:39 AM 02/19/2025

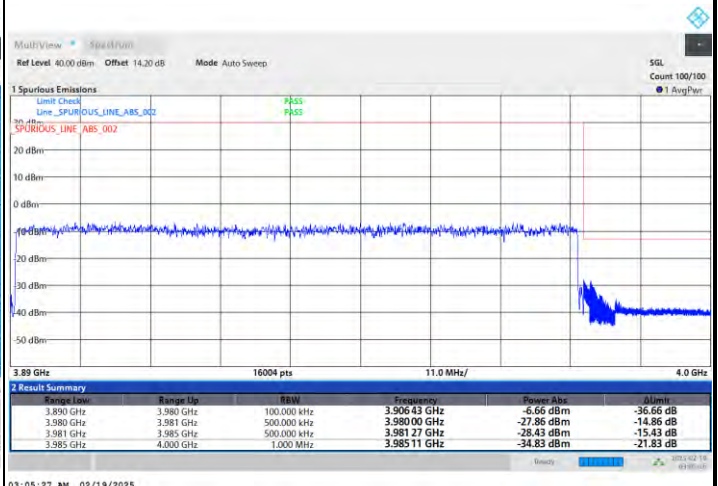
FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



03:02:14 AM 02/19/2025

Highest Band Edge / Full RB



03:05:27 AM 02/19/2025

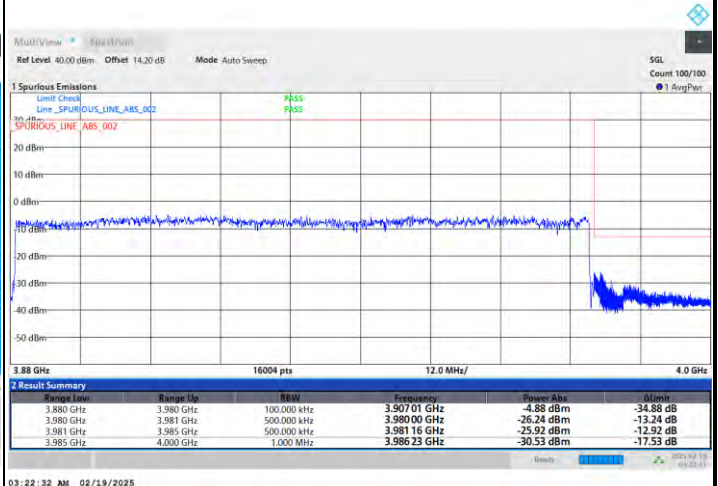


FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

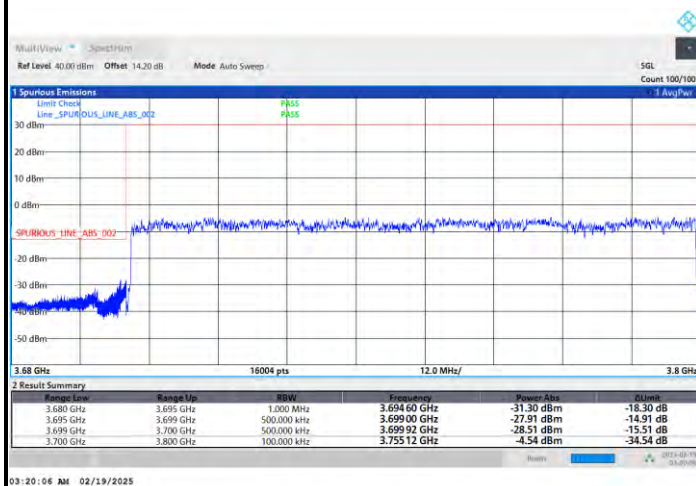


Highest Band Edge / Full RB

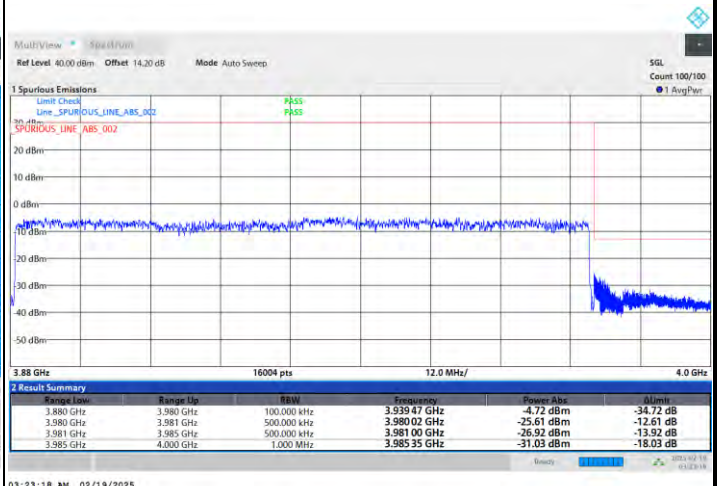


FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



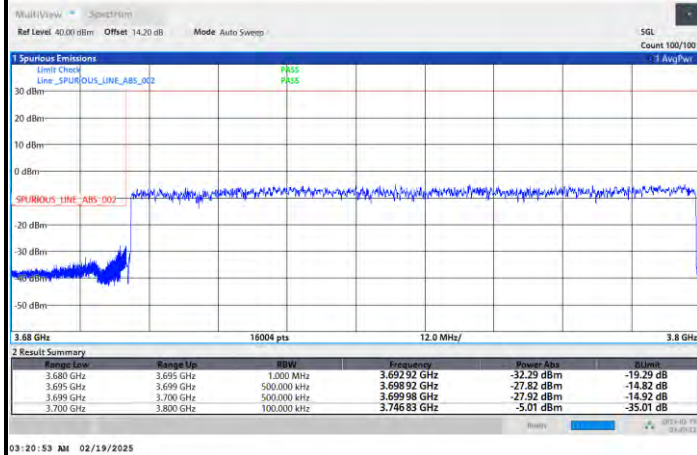
Highest Band Edge / Full RB



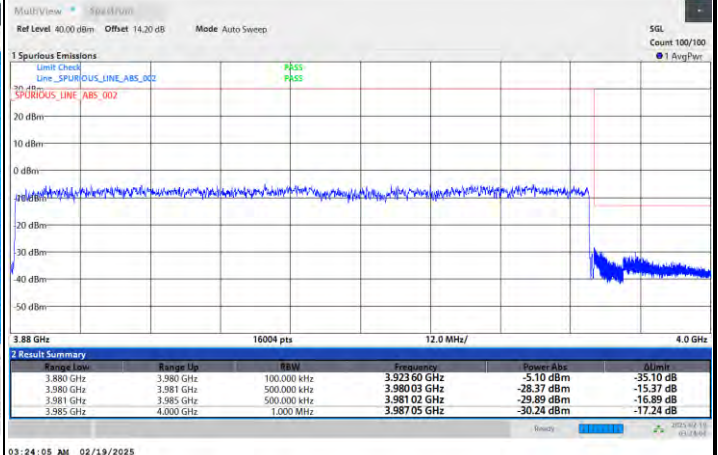


FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

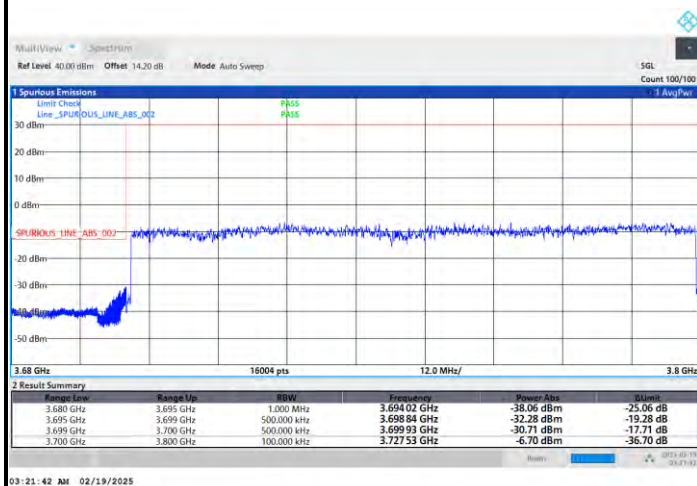


Highest Band Edge / Full RB

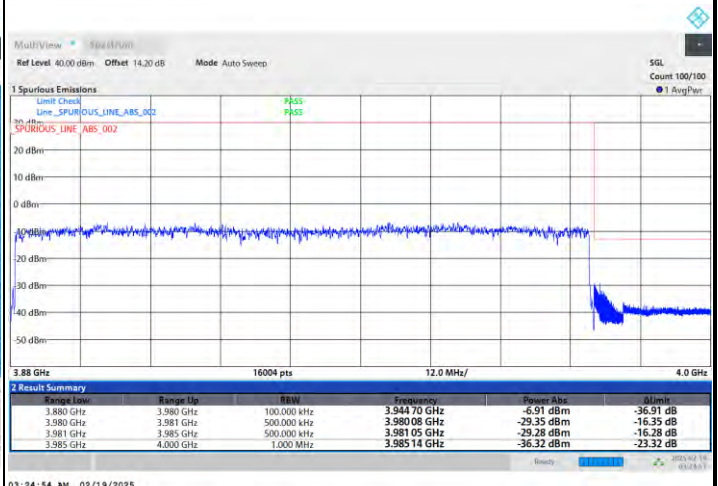


FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

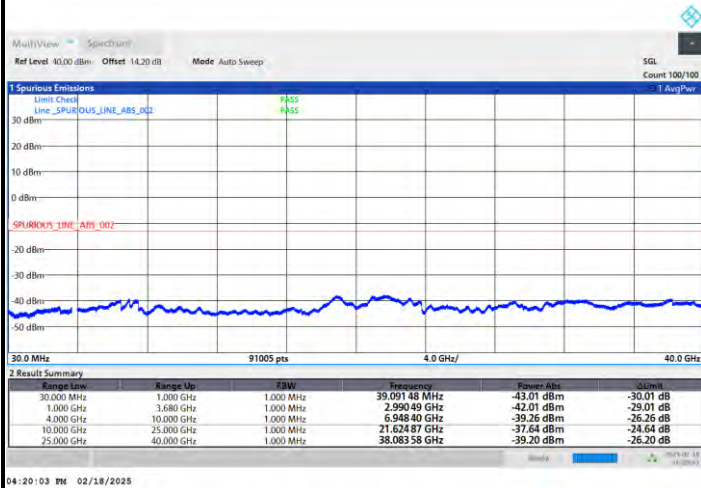




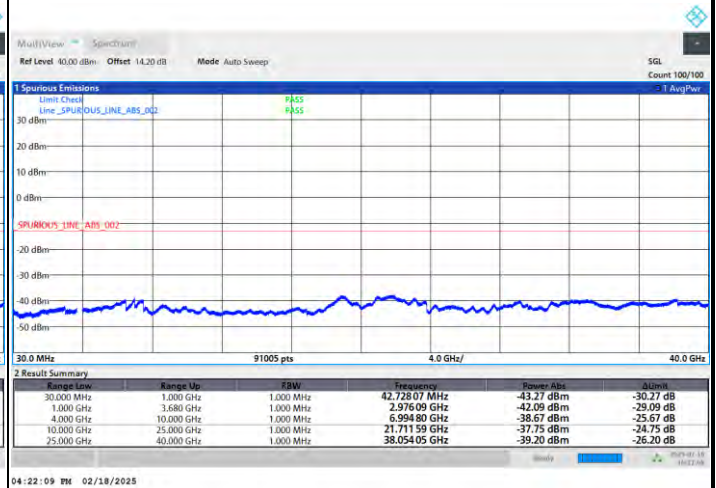
Conducted Spurious Emission

FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0150	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0076	
0	Normal Voltage	0.0106	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0114	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0051	
20	Minimum Voltage	0.0065	

Note:

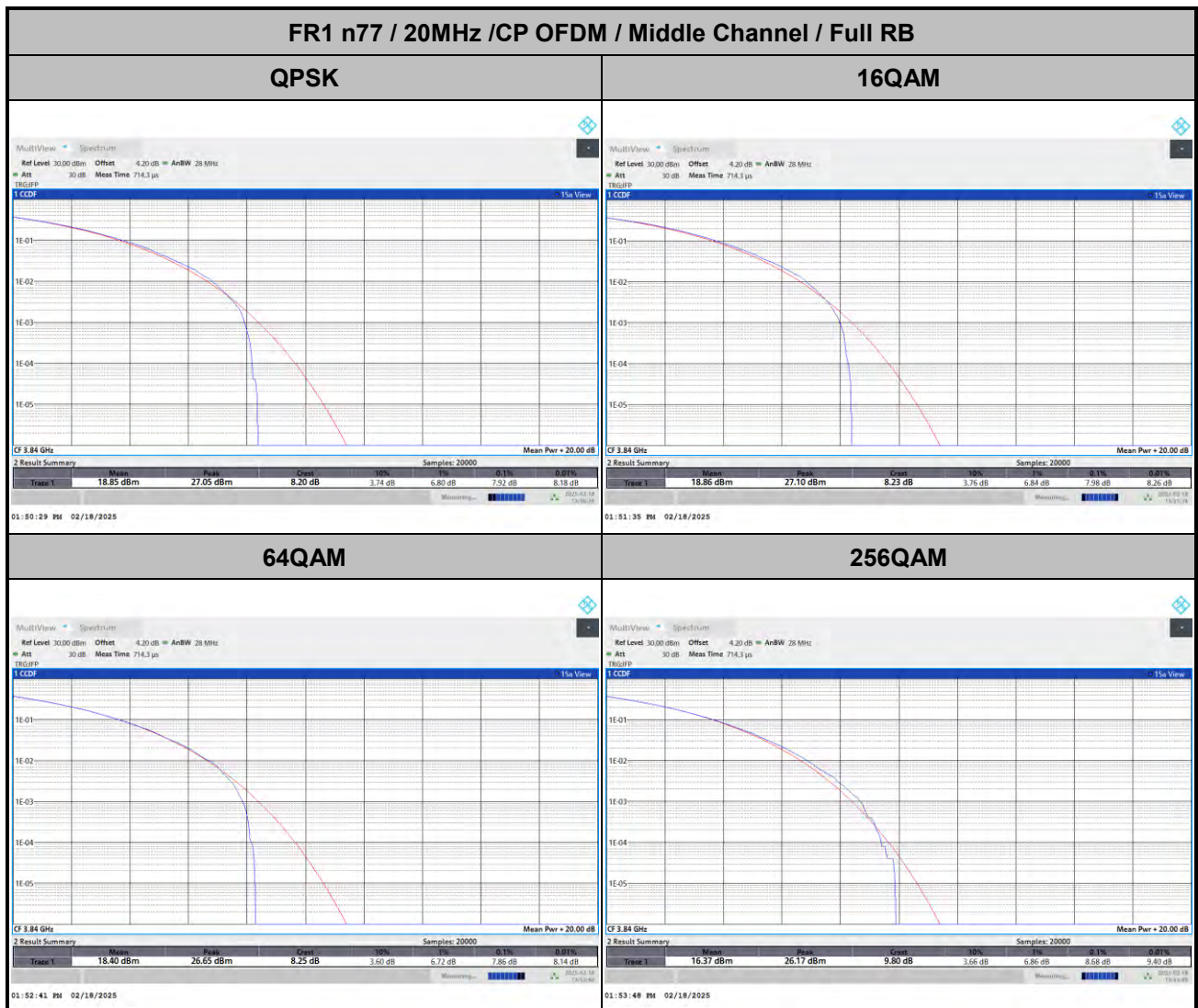
1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 7+1> (Ant. 1)

Peak-to-Average Ratio

Mode	FR1 n77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.92	7.98	7.86	8.68	PASS



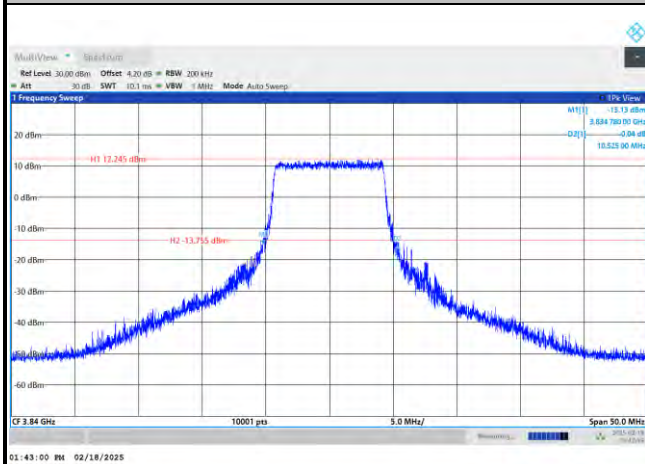
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.52	10.34	15.44	15.49	20.52	20.53	25.57	25.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.29	10.47	15.54	15.48	20.60	20.63	25.64	25.60
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.33	31.04	42.64	42.88	52.32	52.28	67.77	66.64
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	31.00	30.79	42.95	42.37	52.31	51.63	68.29	66.55
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	77.53	76.87	84.18	84.51	96.83	96.55	106.67	107.91
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	77.40	76.56	85.15	84.45	98.44	96.13	106.67	106.12

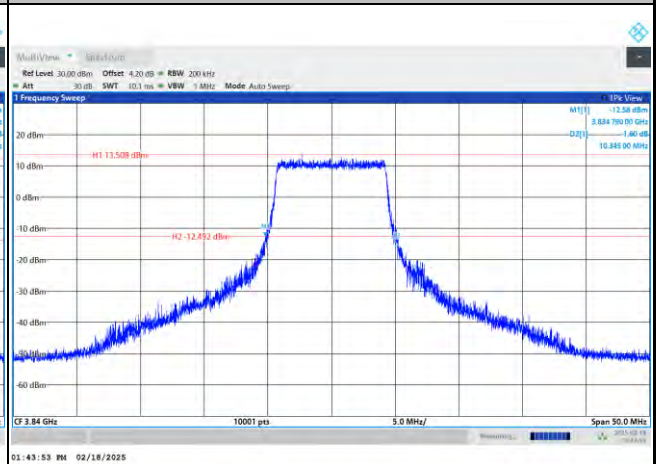


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

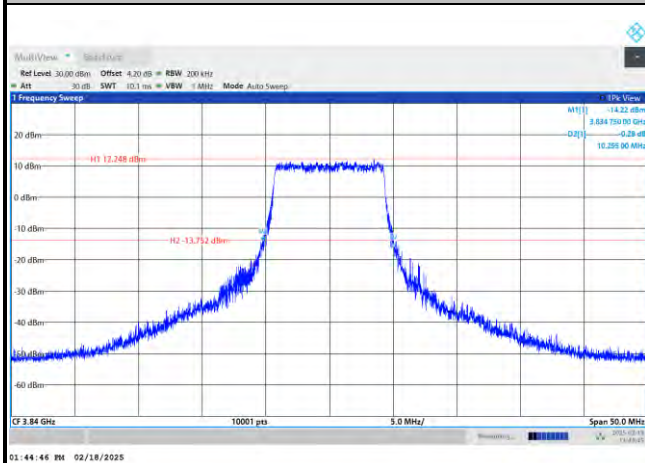
QPSK



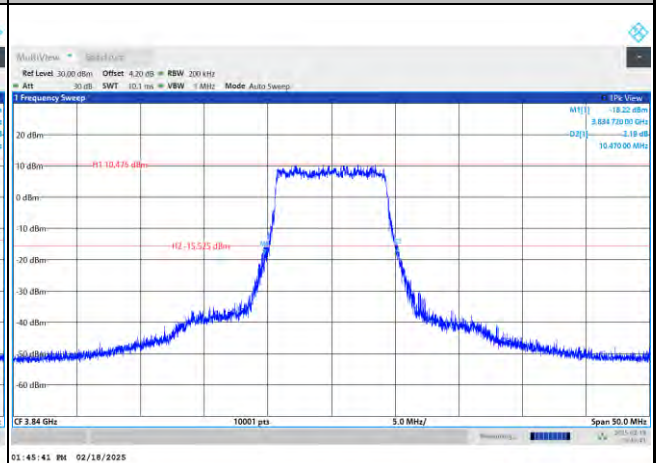
16QAM



64QAM



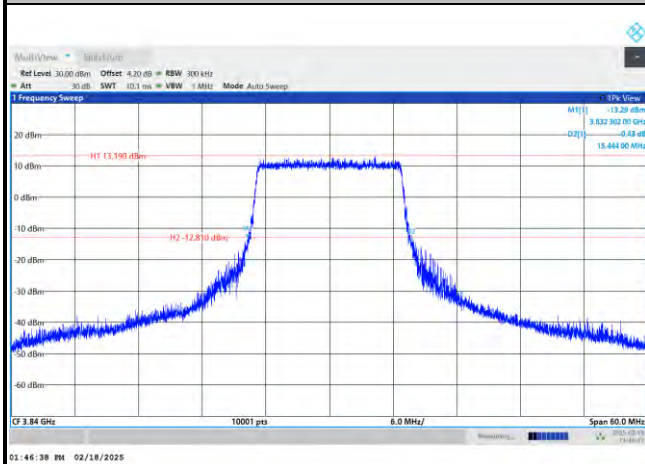
256QAM



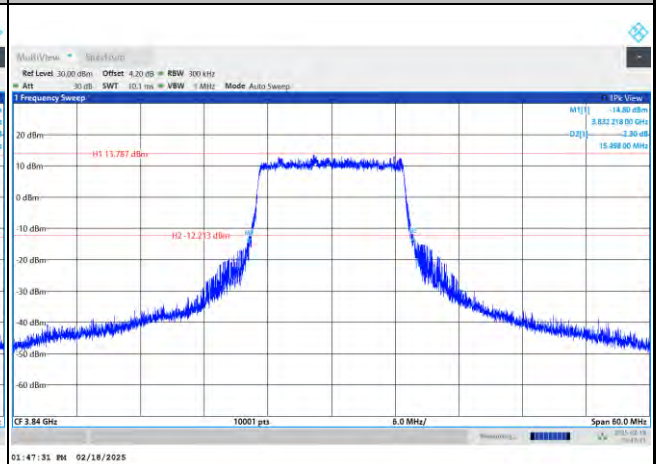


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

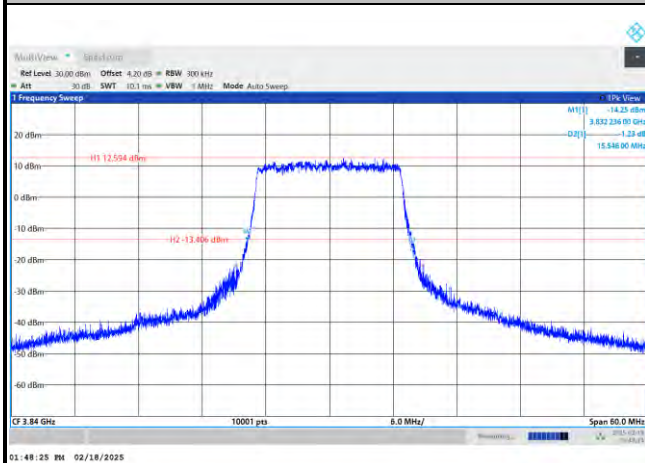
QPSK



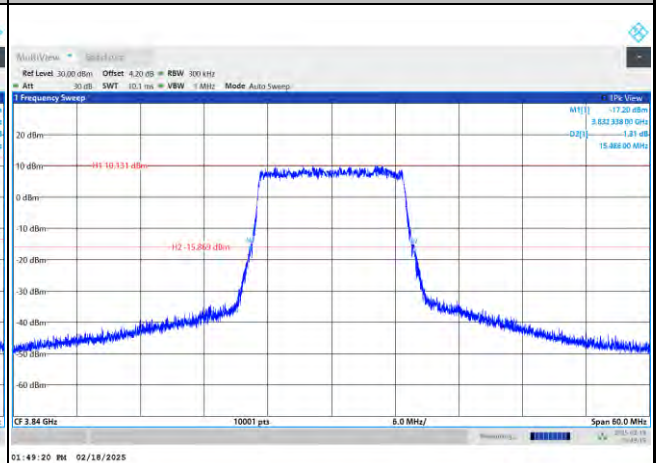
16QAM



64QAM



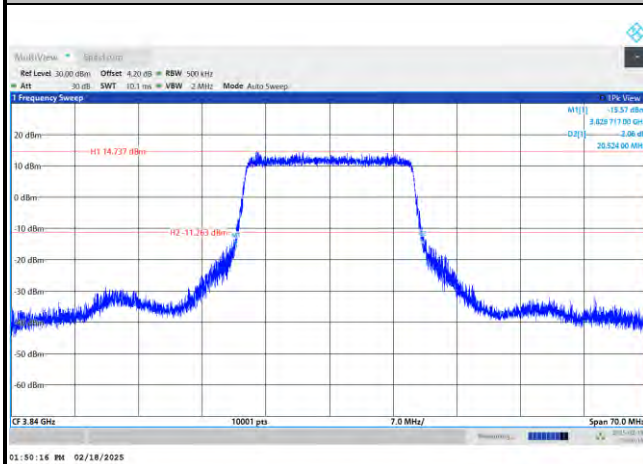
256QAM



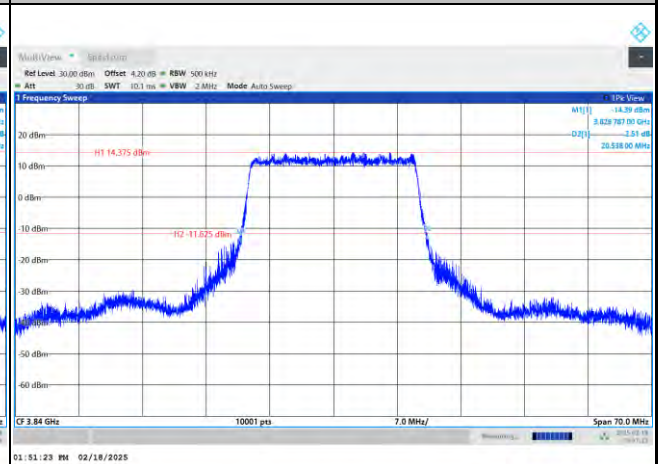


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

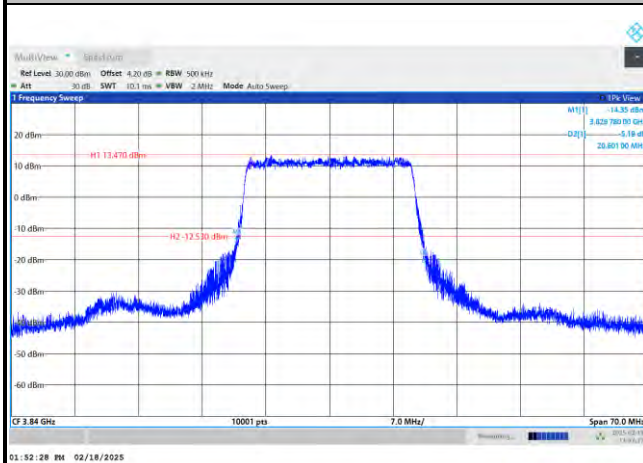
QPSK



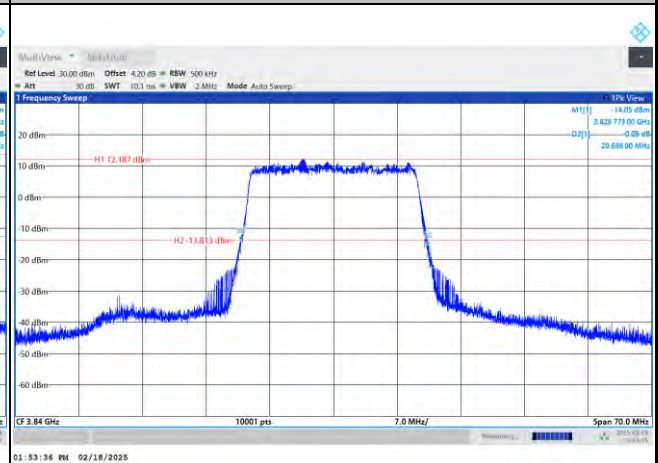
16QAM



64QAM



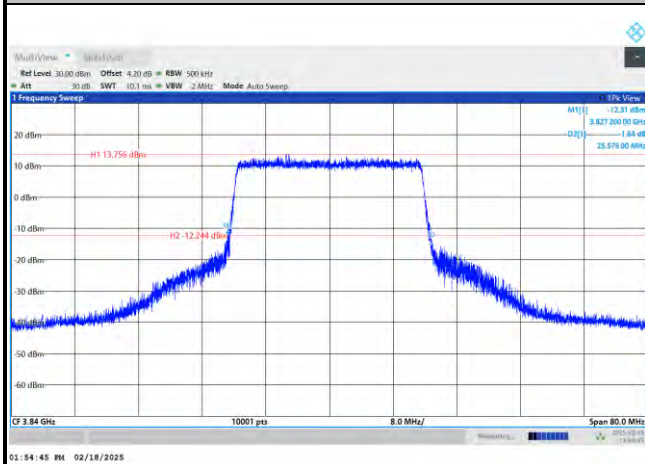
256QAM



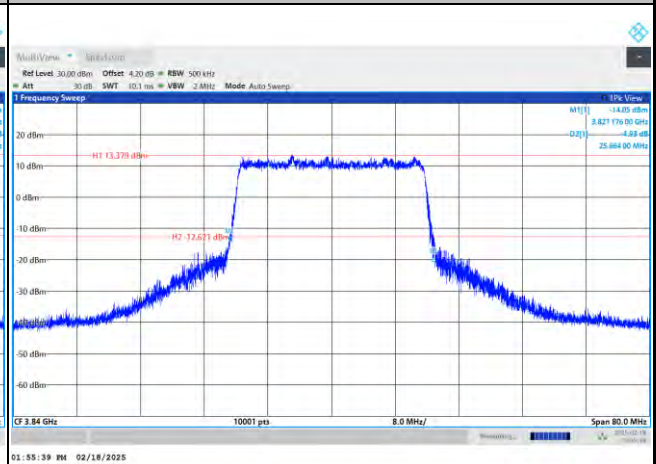


FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

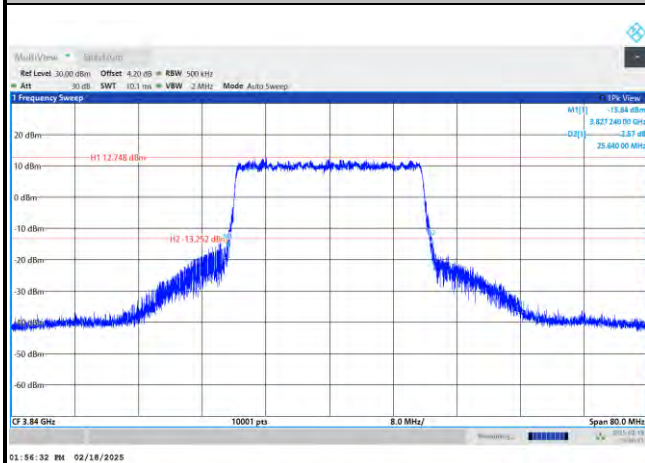
QPSK



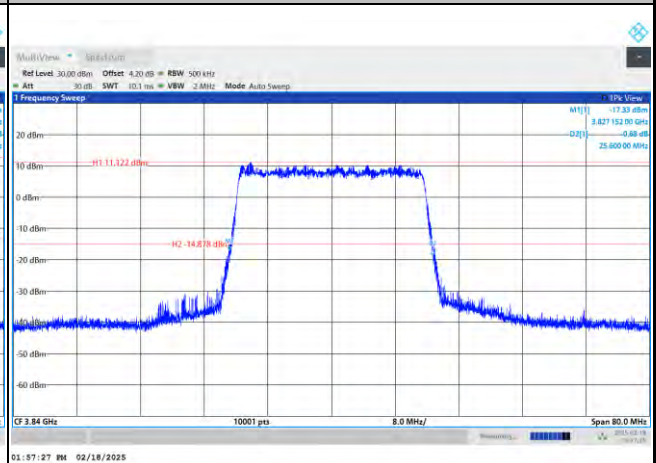
16QAM



64QAM



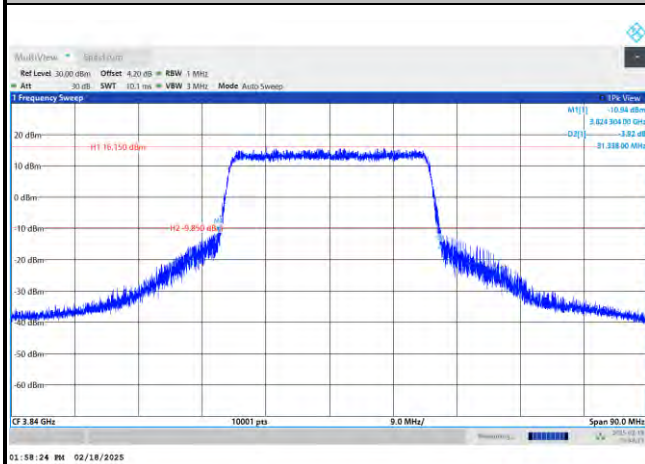
256QAM



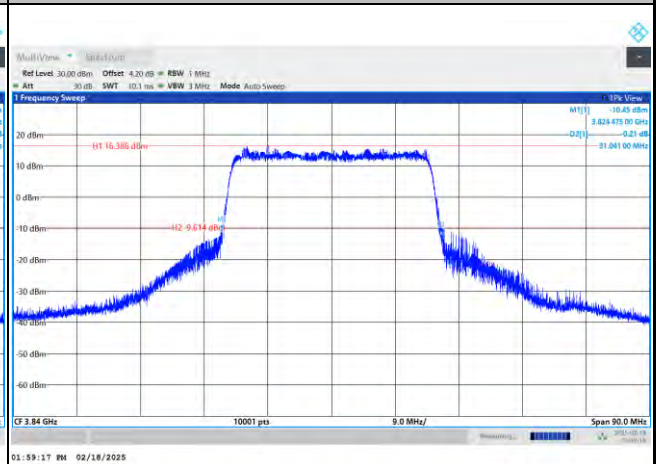


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

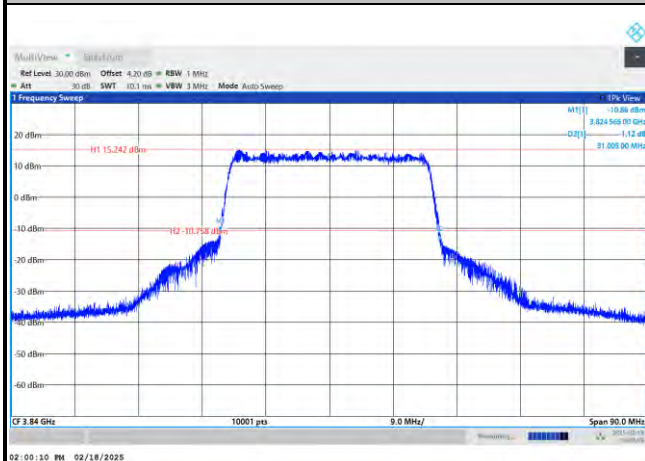
QPSK



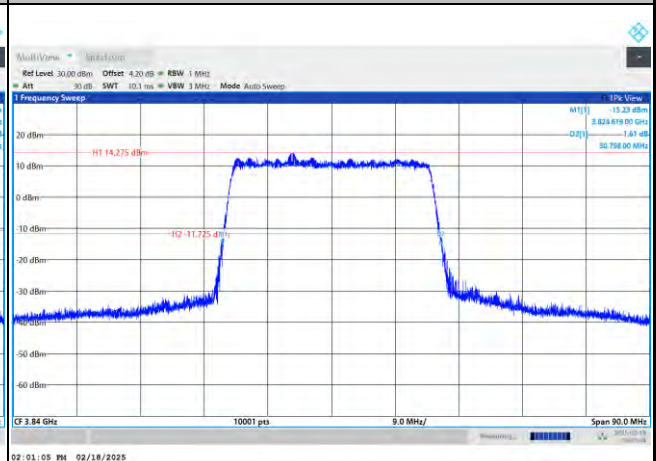
16QAM



64QAM

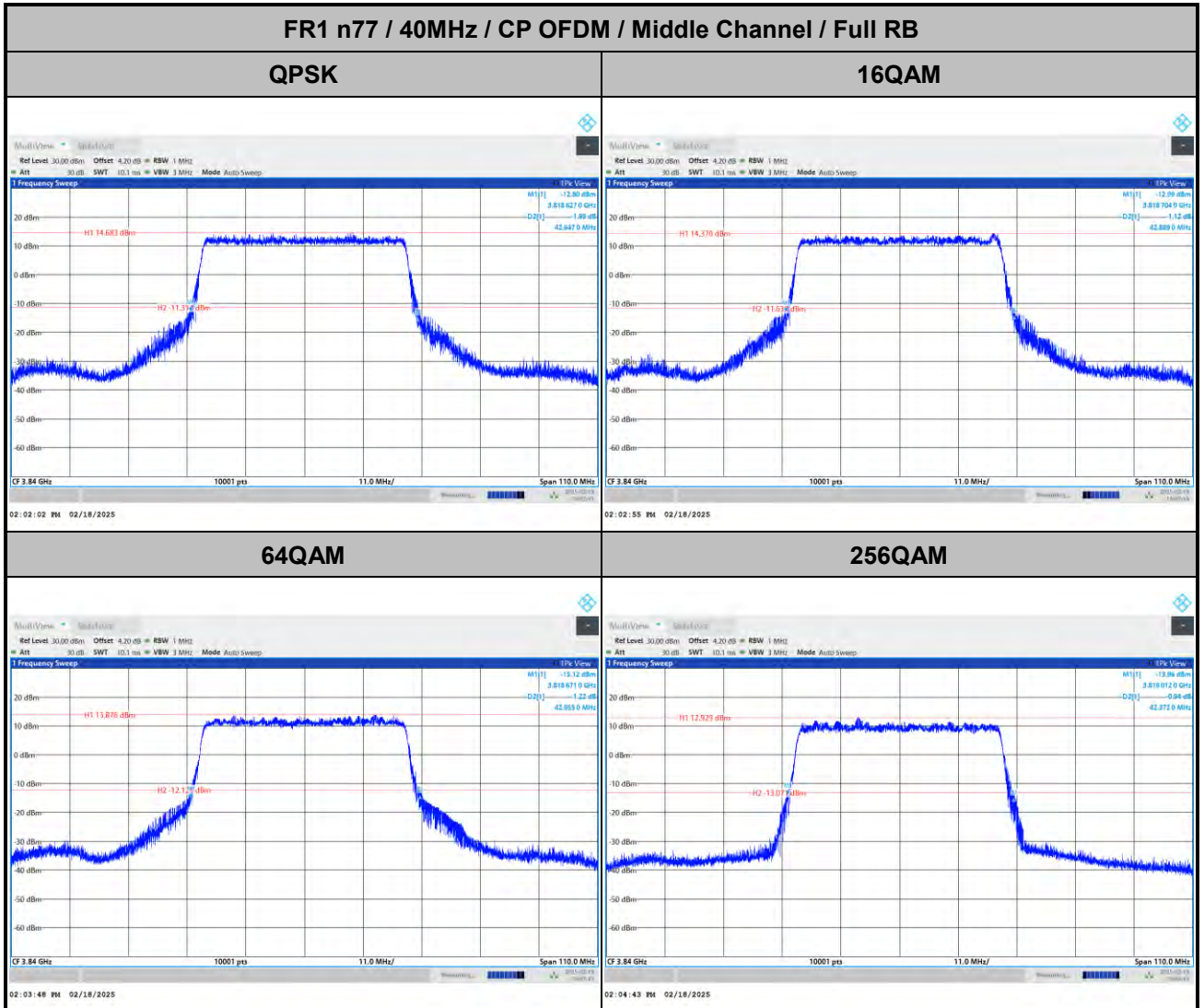


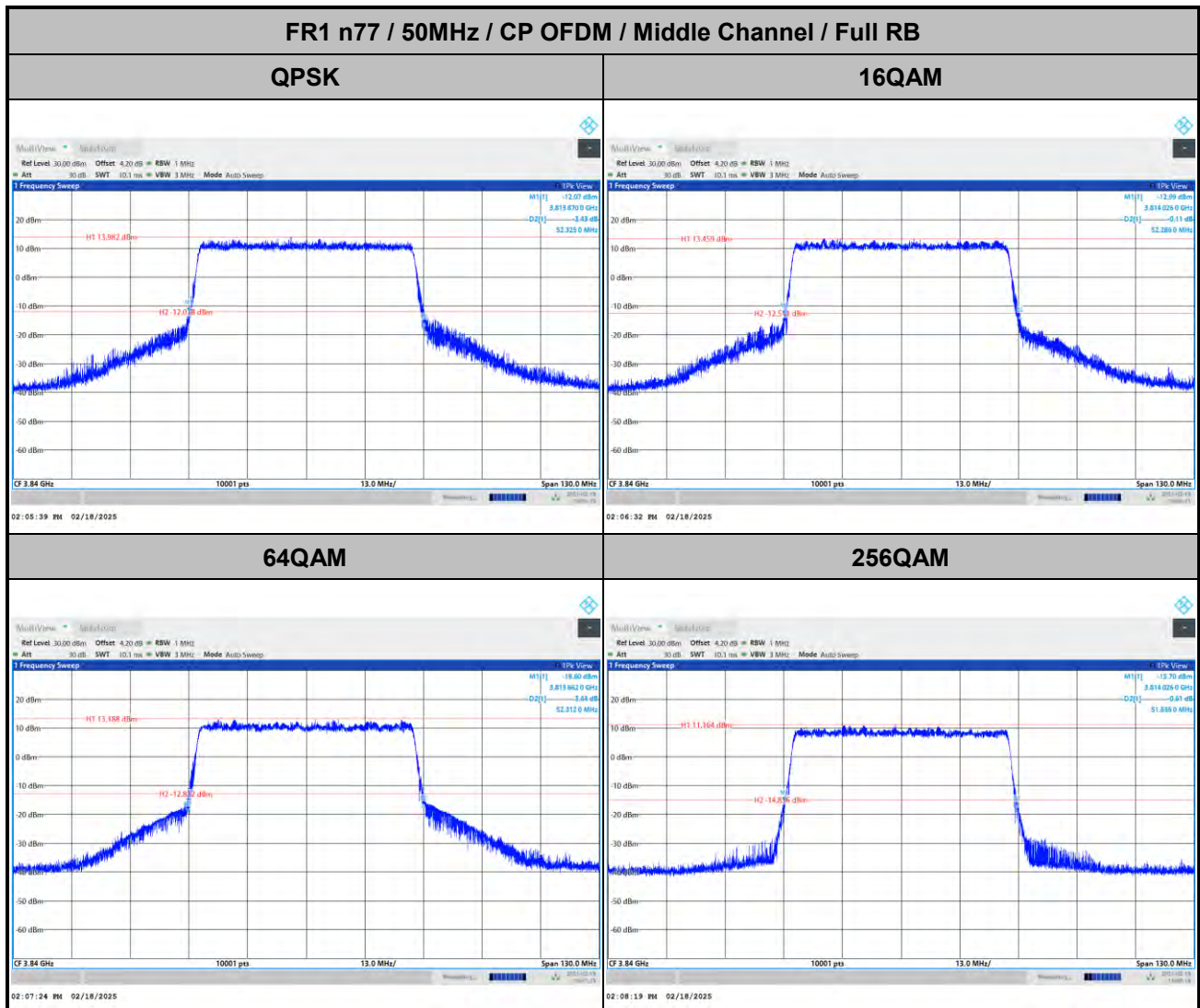
256QAM





Report No. : FG4N0917C

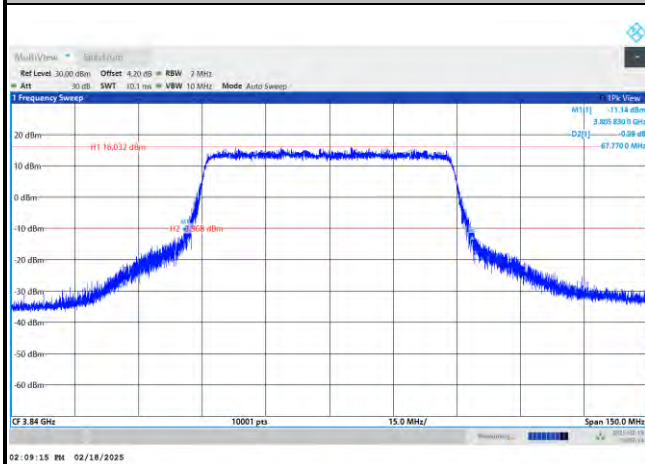






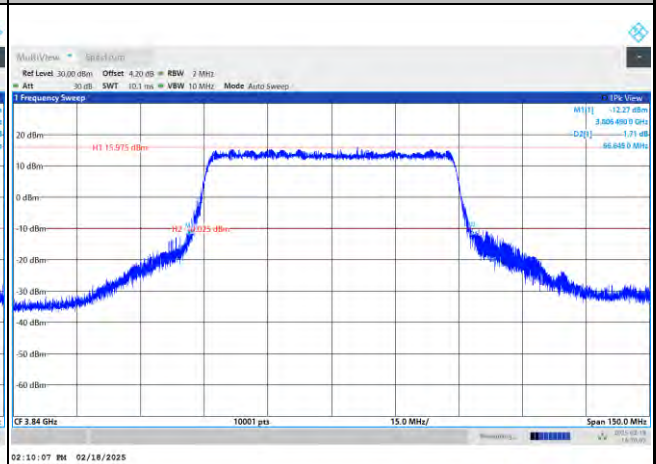
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



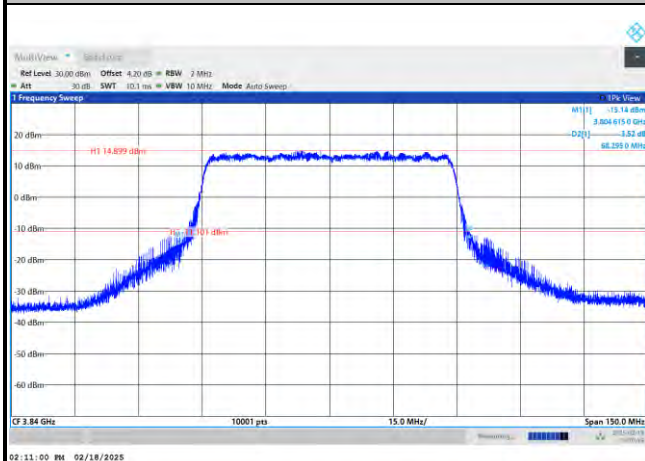
02:09:15 PM 02/18/2025

16QAM



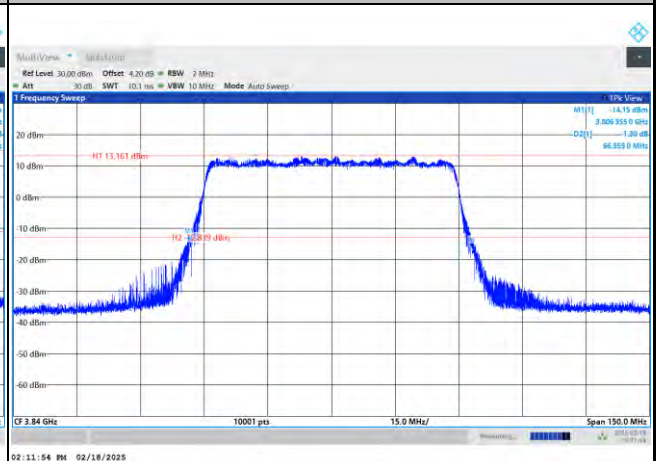
02:10:07 PM 02/18/2025

64QAM



02:11:00 PM 02/18/2025

256QAM

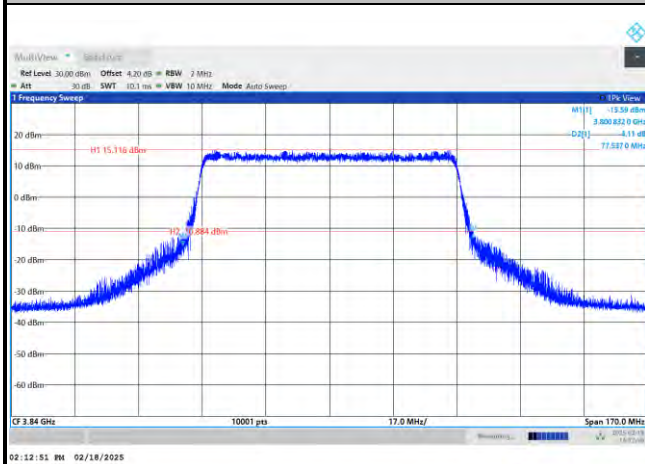


02:11:54 PM 02/18/2025

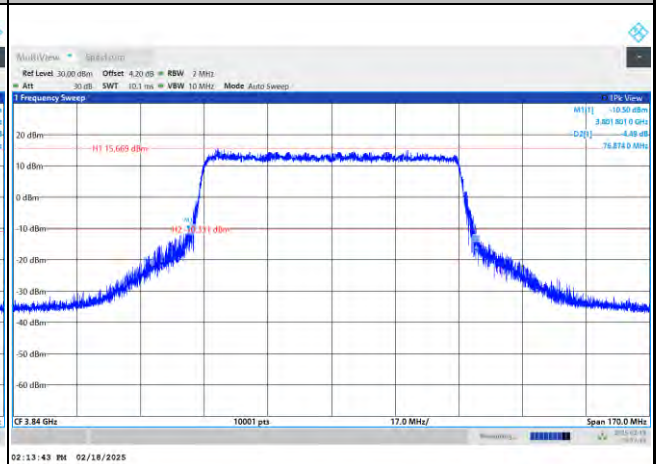


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

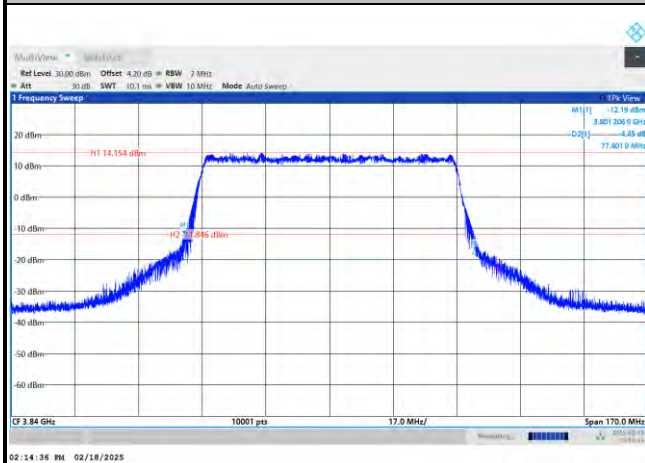
QPSK



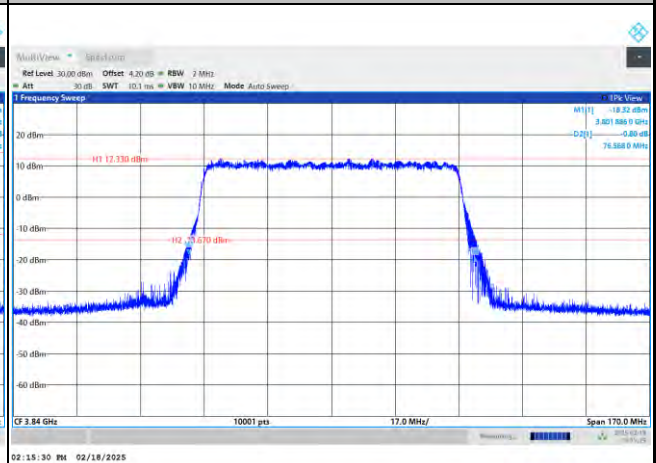
16QAM



64QAM



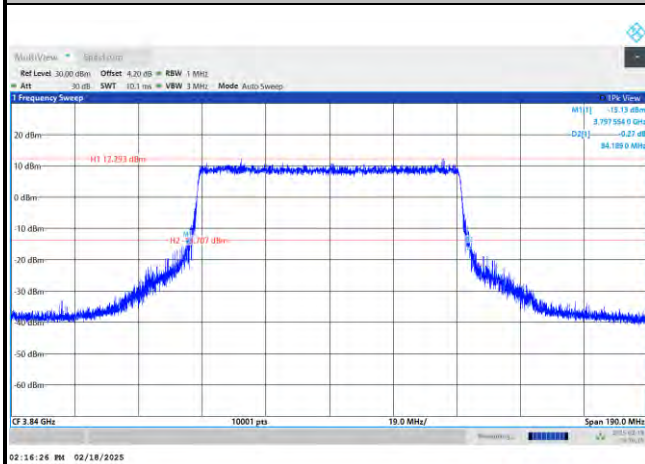
256QAM



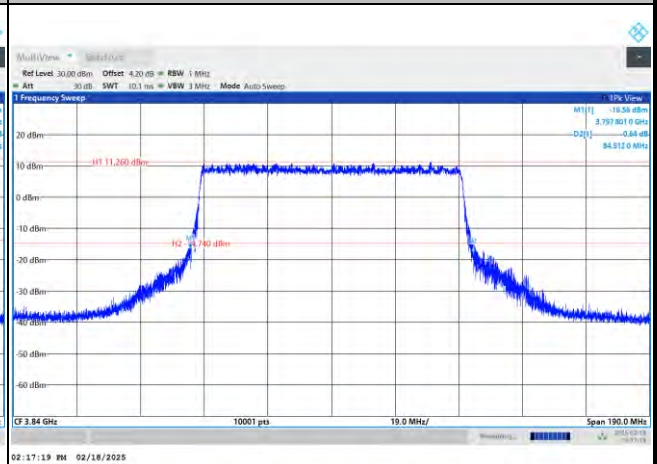


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

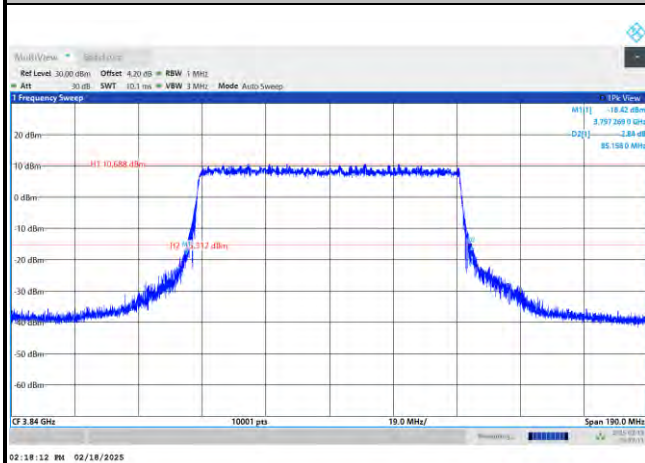
QPSK



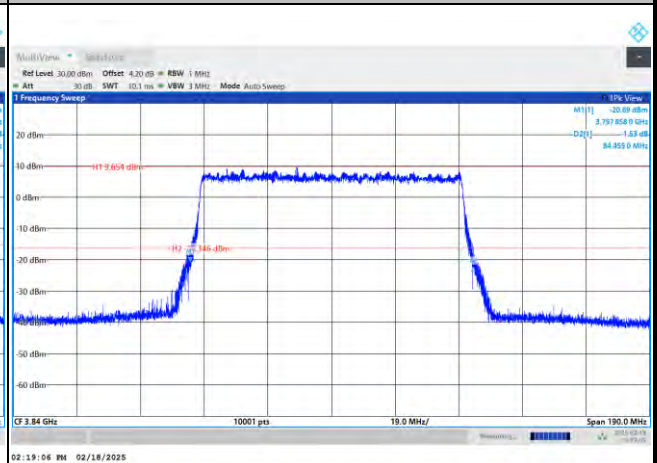
16QAM

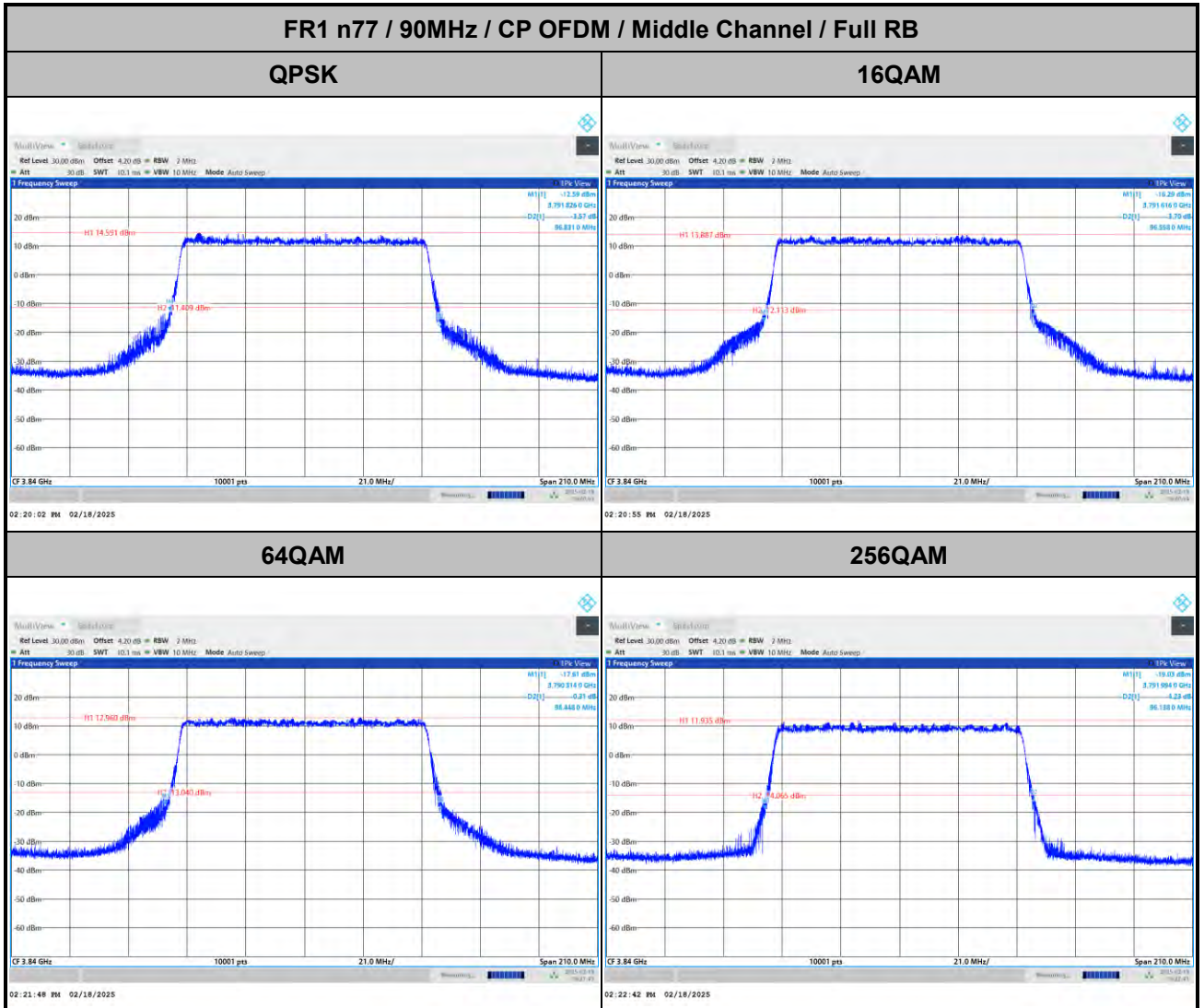


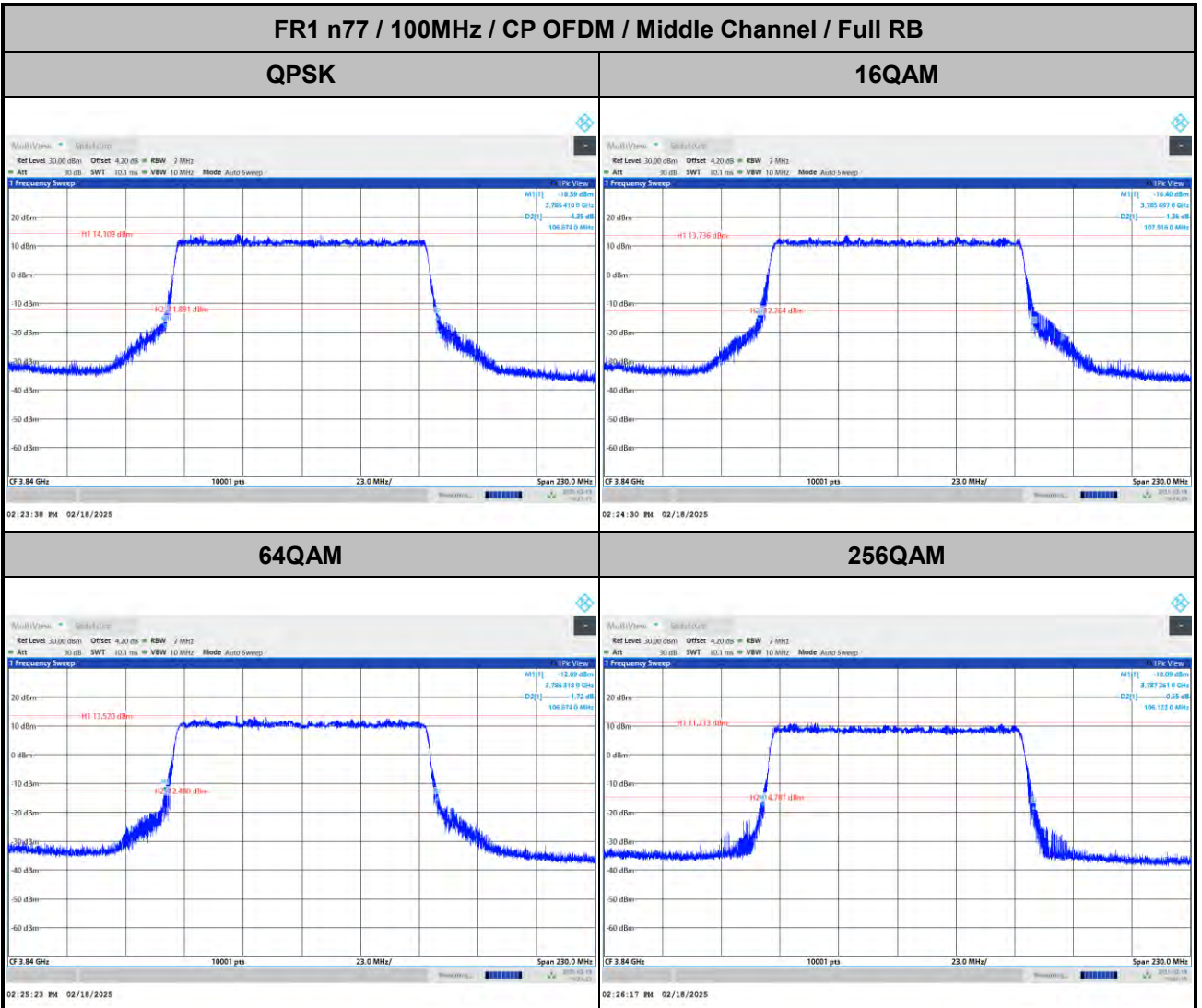
64QAM



256QAM







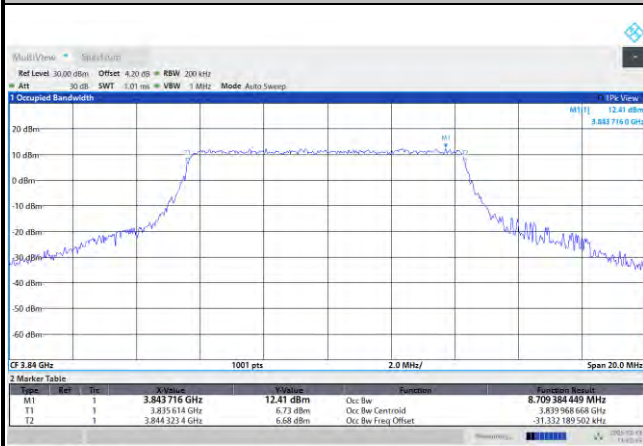
**Occupied Bandwidth**

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.70	8.71	13.68	13.67	18.35	18.35	23.33	23.38
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.68	8.69	13.68	13.68	18.36	18.44	23.37	23.30
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.25	28.17	38.23	38.19	47.67	47.69	58.64	58.49
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.28	28.16	38.11	38.04	47.74	47.60	58.53	58.74
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	68.26	68.41	77.97	78.02	87.89	87.93	97.85	97.97
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	68.35	67.97	78.13	78.17	87.96	88.13	97.94	97.73

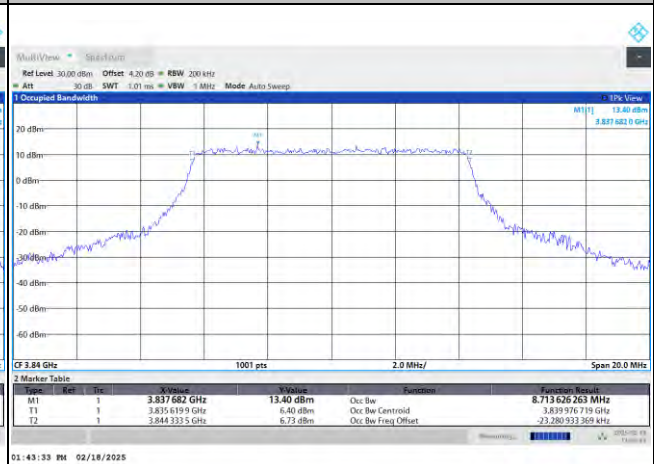


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

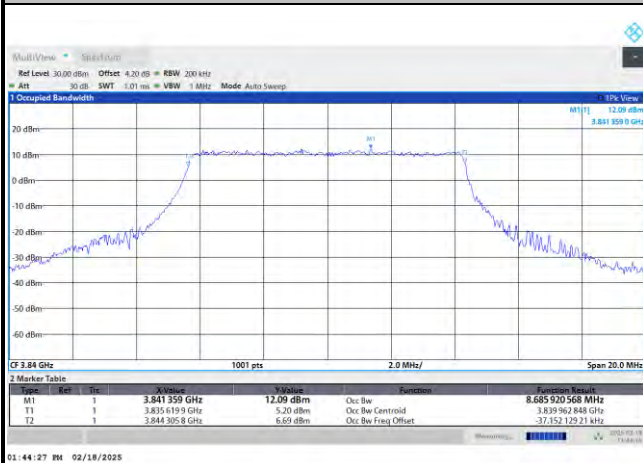
QPSK



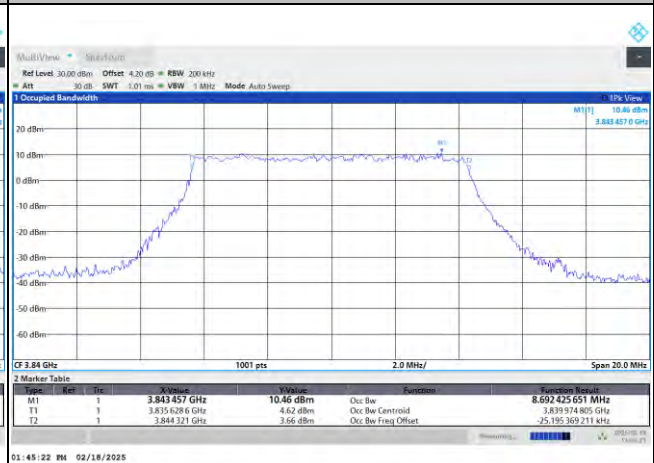
16QAM



64QAM



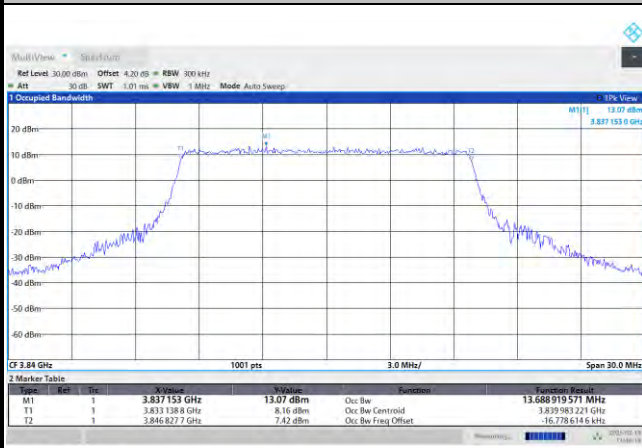
256QAM



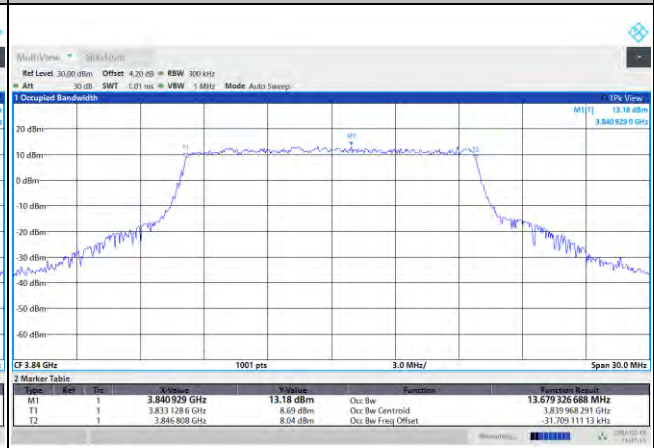


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

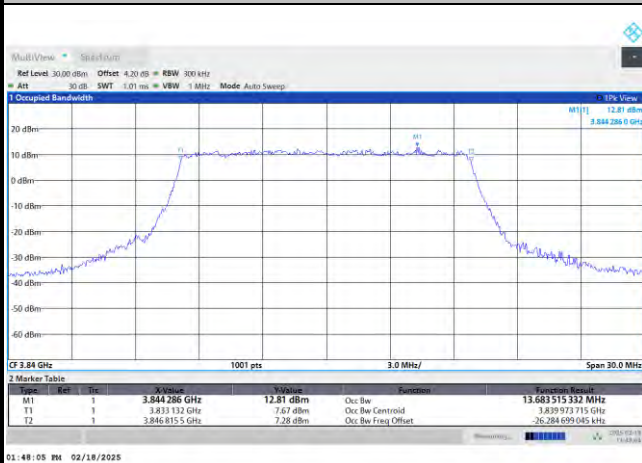
QPSK



16QAM



64QAM



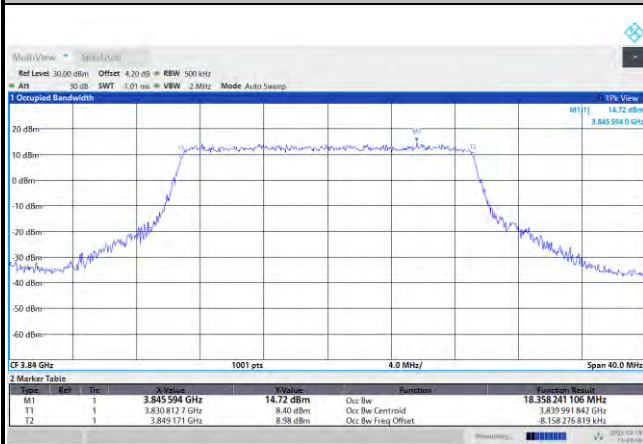
256QAM



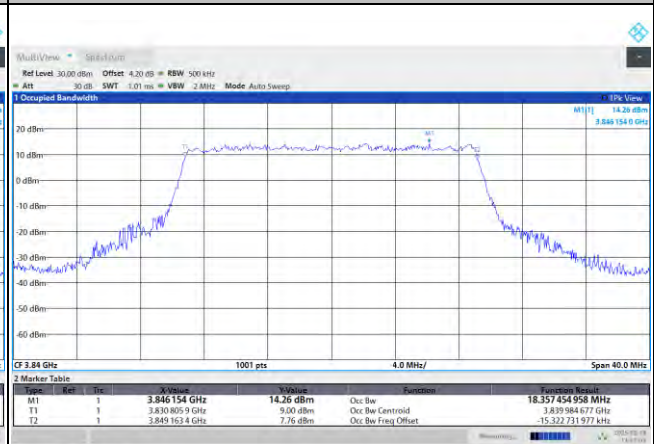


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

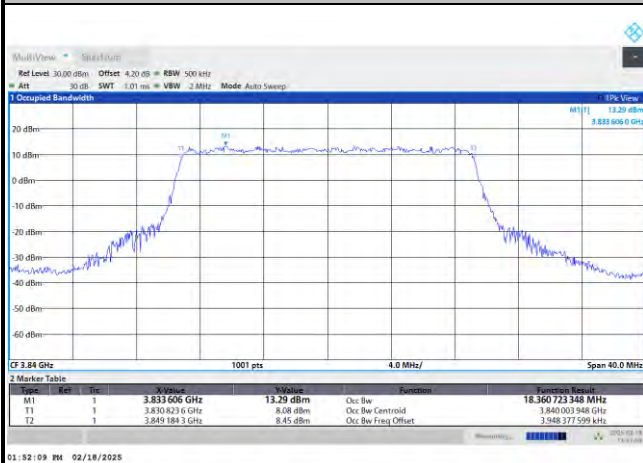
QPSK



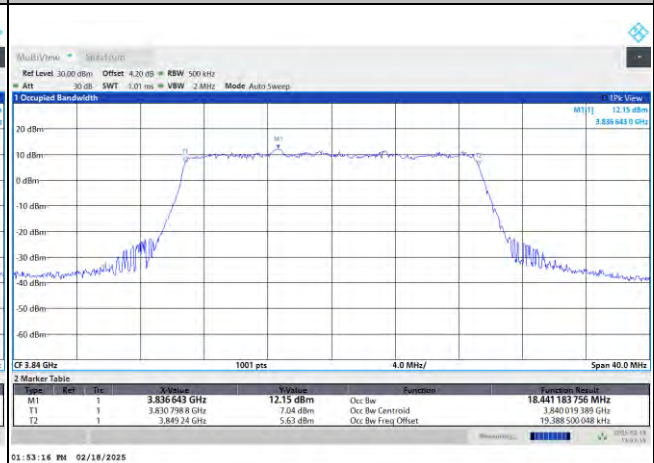
16QAM



64QAM



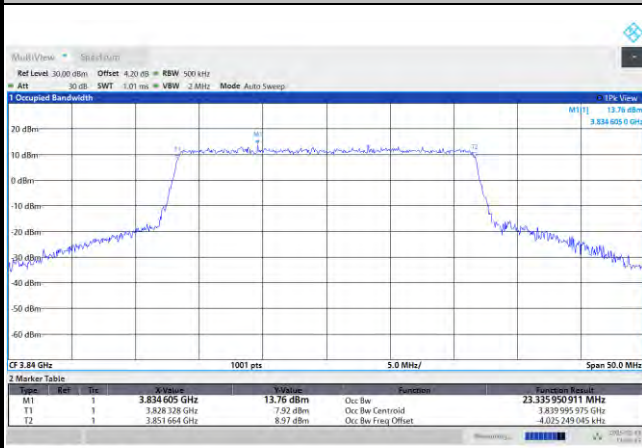
256QAM





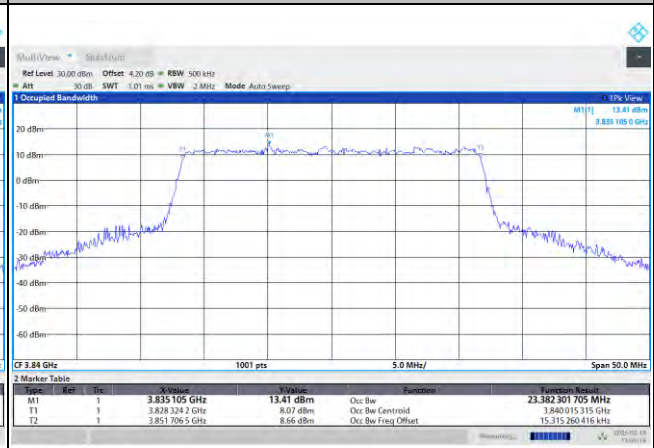
FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



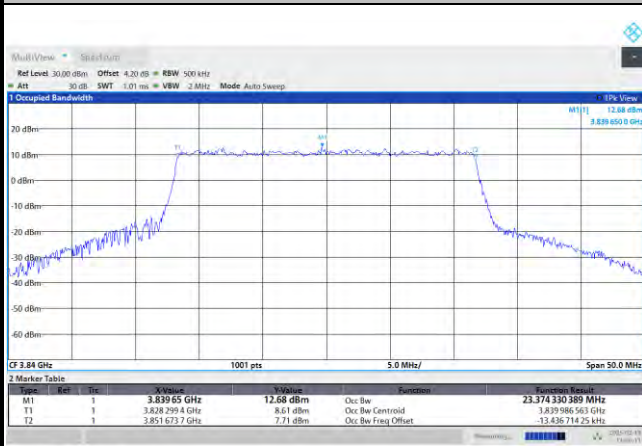
01:54:26 PM 02/18/2025

16QAM



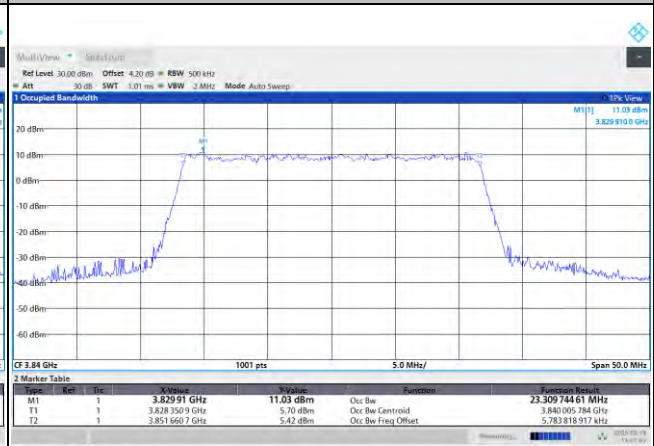
01:55:19 PM 02/18/2025

64QAM



01:56:12 PM 02/18/2025

256QAM

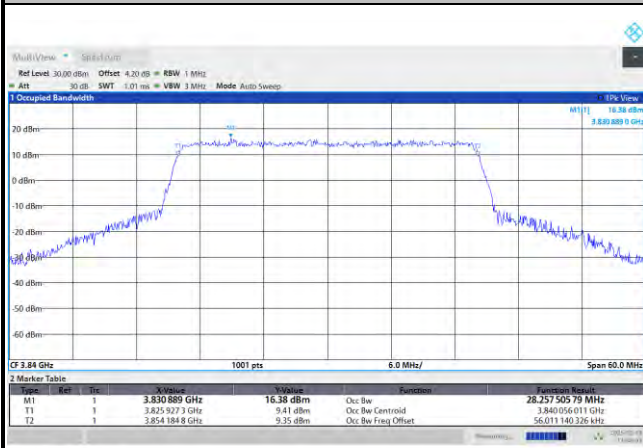


01:57:07 PM 02/18/2025



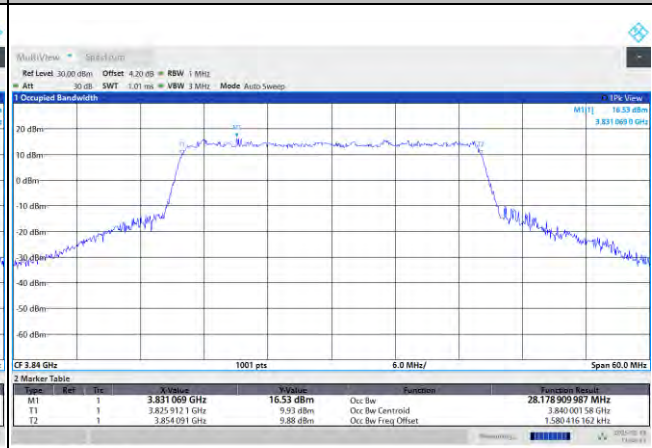
FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



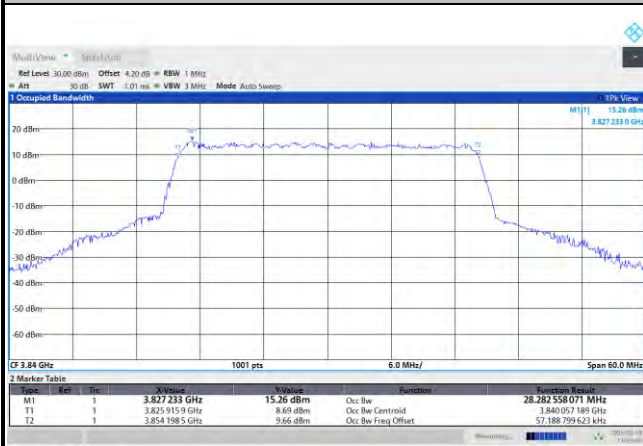
01:58:04 PM 02/18/2025

16QAM



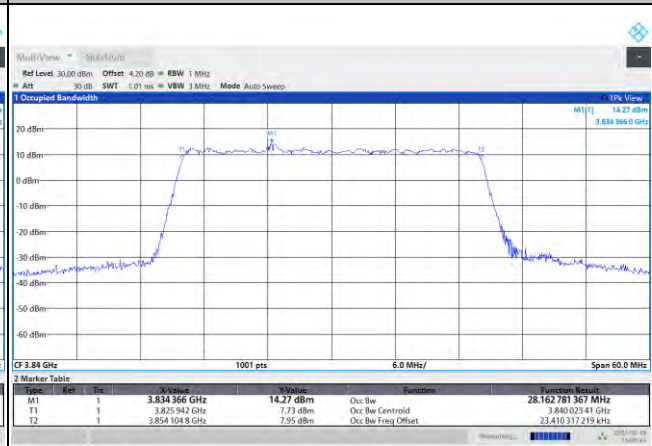
01:58:58 PM 02/18/2025

64QAM



01:59:51 PM 02/18/2025

256QAM

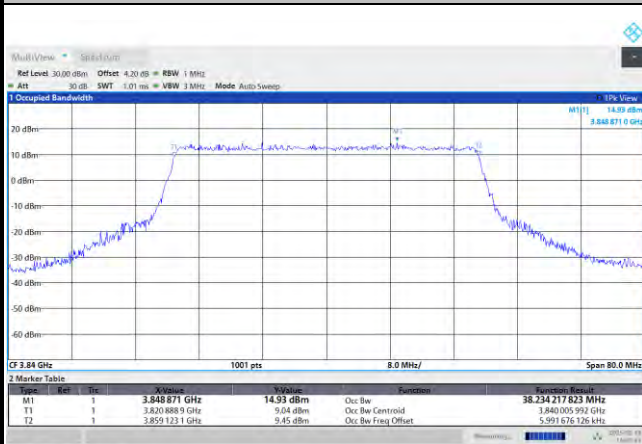


02:00:46 PM 02/18/2025

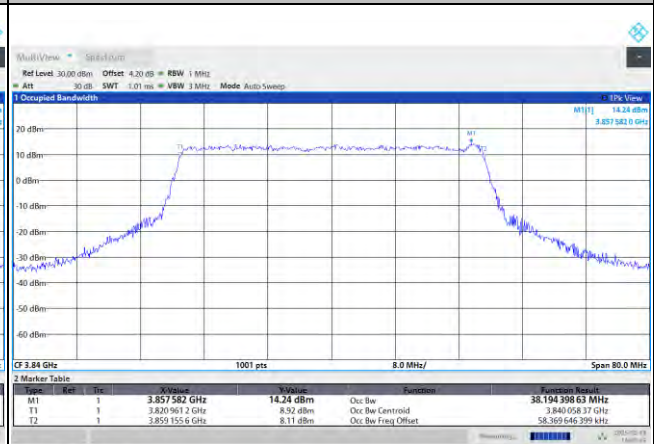


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

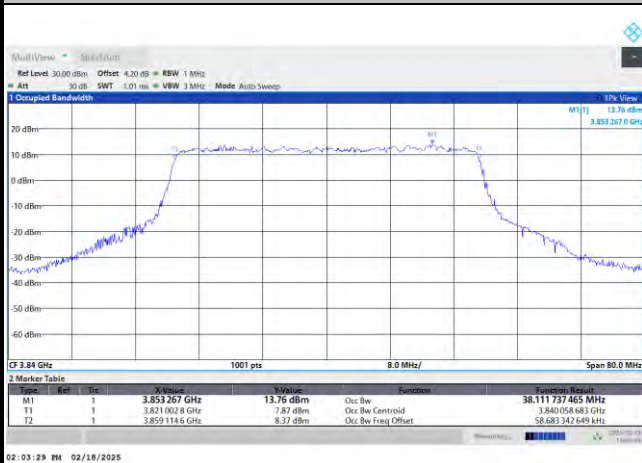
QPSK



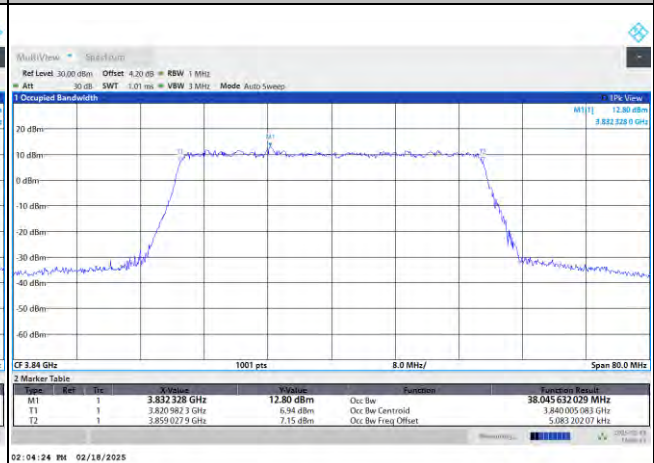
16QAM



64QAM



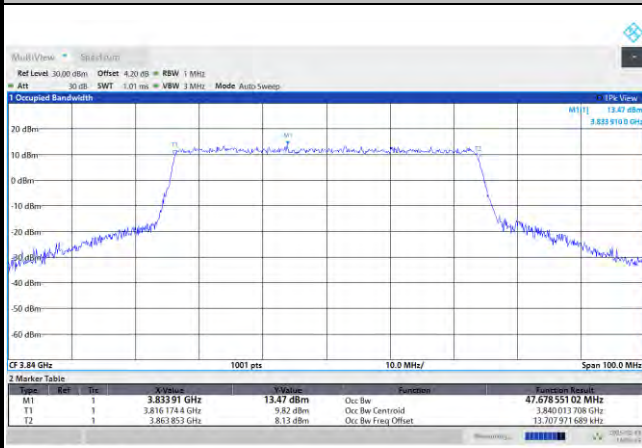
256QAM



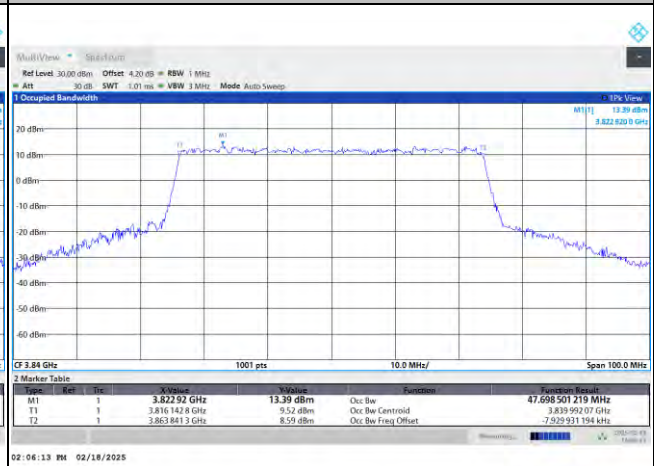


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

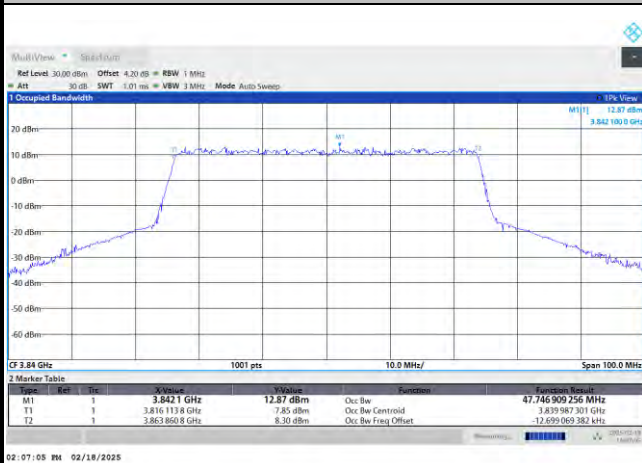
QPSK



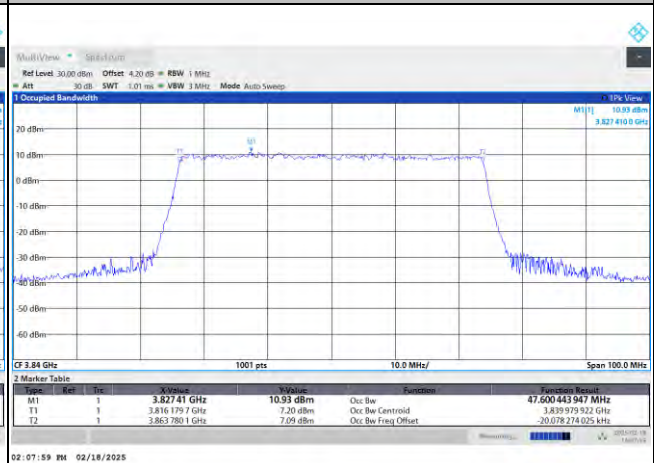
16QAM



64QAM



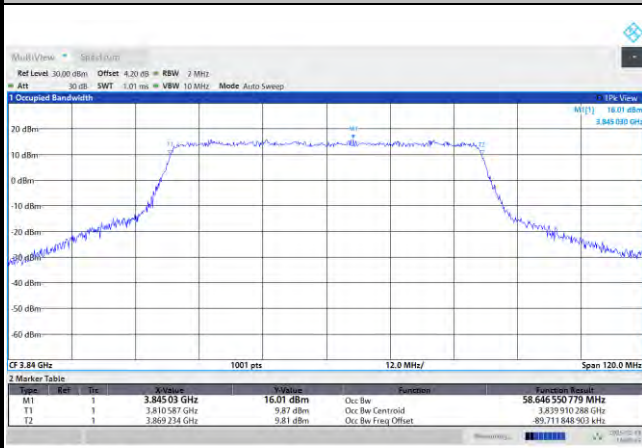
256QAM



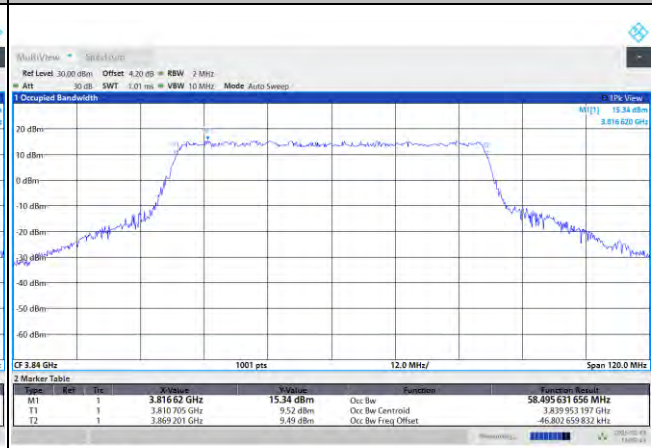


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

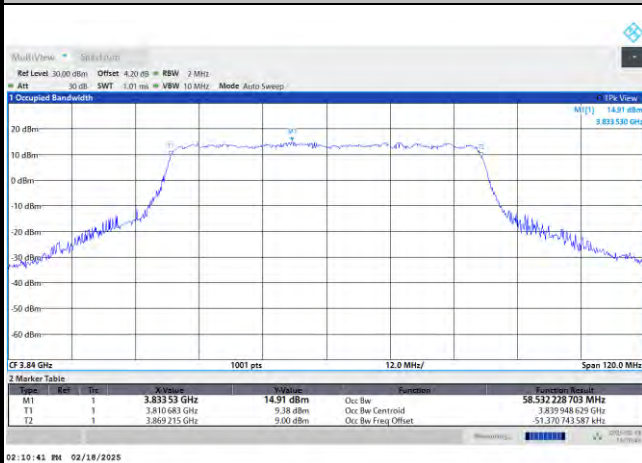
QPSK



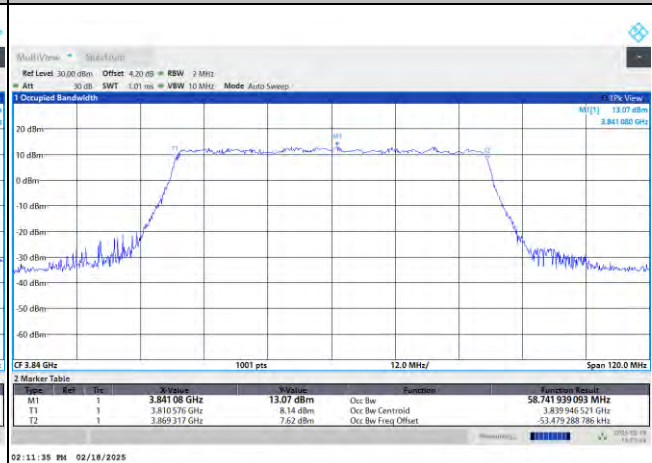
16QAM



64QAM

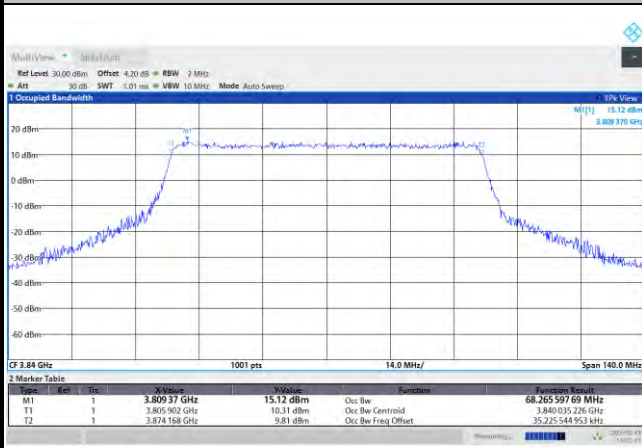


256QAM



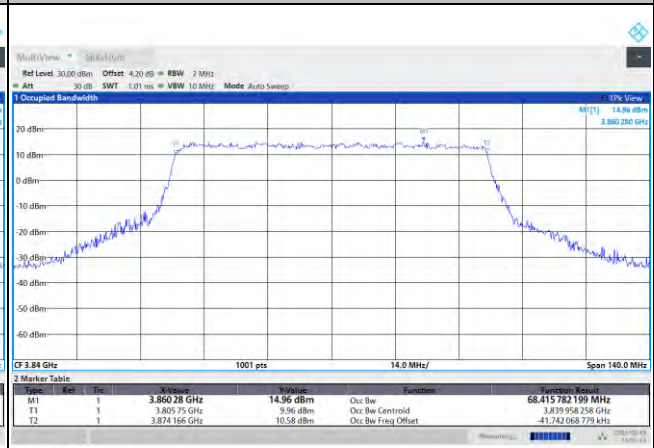
FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

QPSK



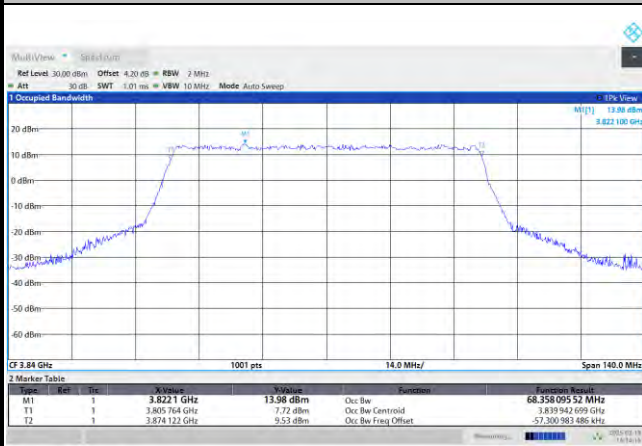
02:12:31 PM 02/18/2025

16QAM



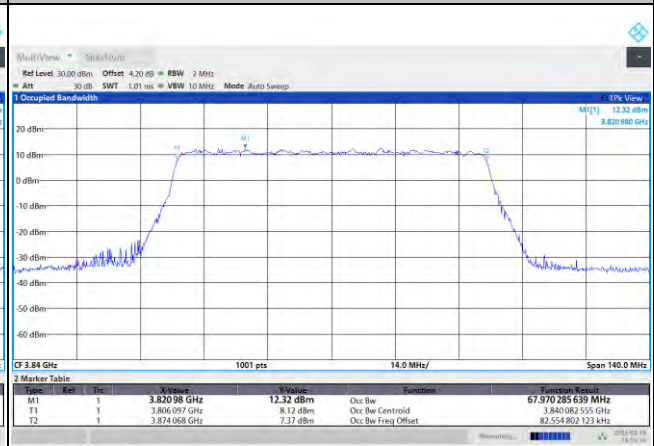
02:13:24 PM 02/18/2025

64QAM



02:14:17 PM 02/18/2025

256QAM



02:15:11 PM 02/18/2025



FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

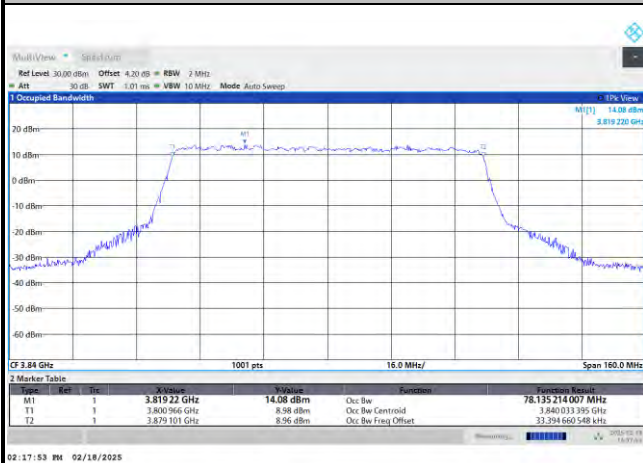
QPSK



16QAM



64QAM



256QAM

