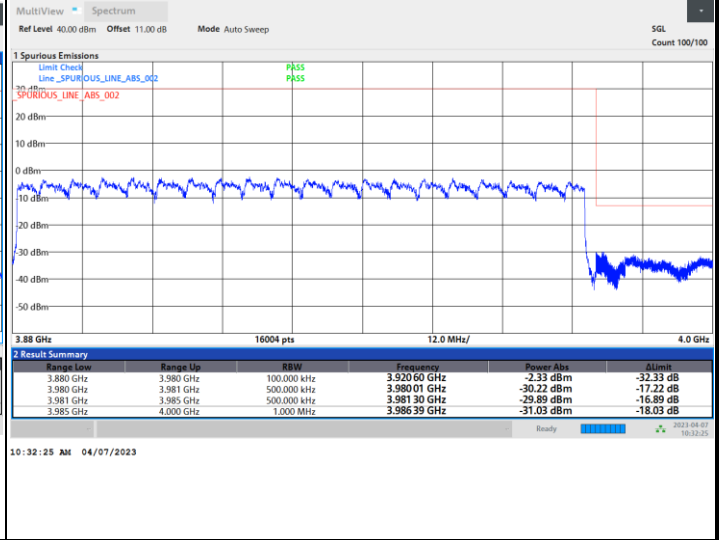
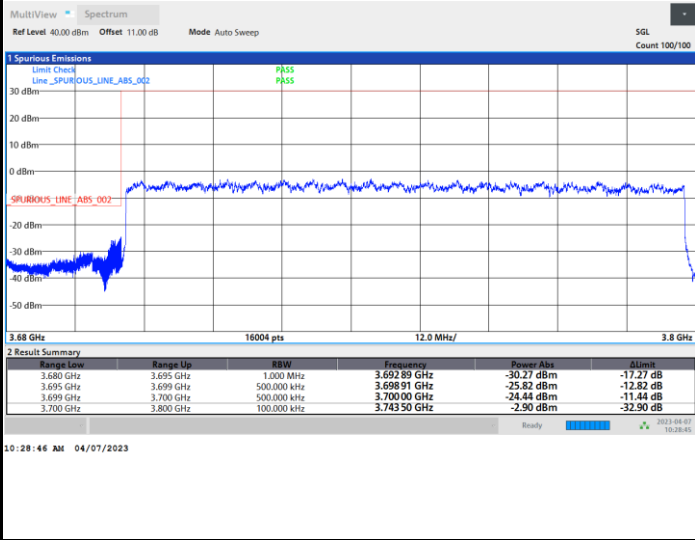




FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

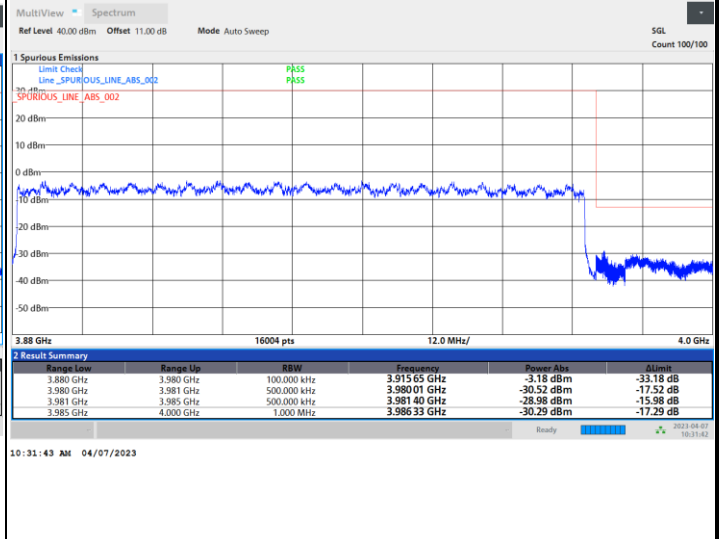
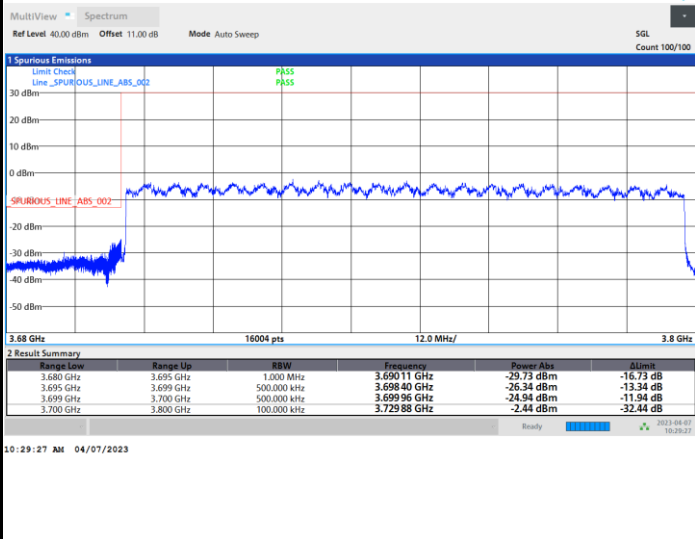
Highest Band Edge / Full RB



FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

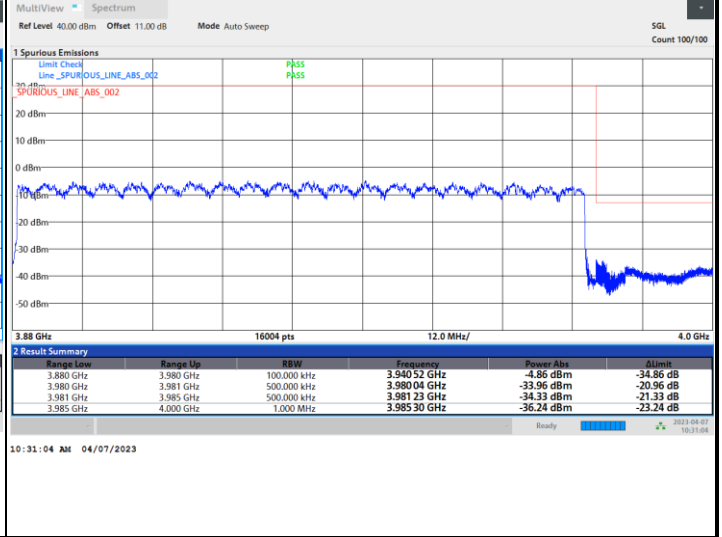
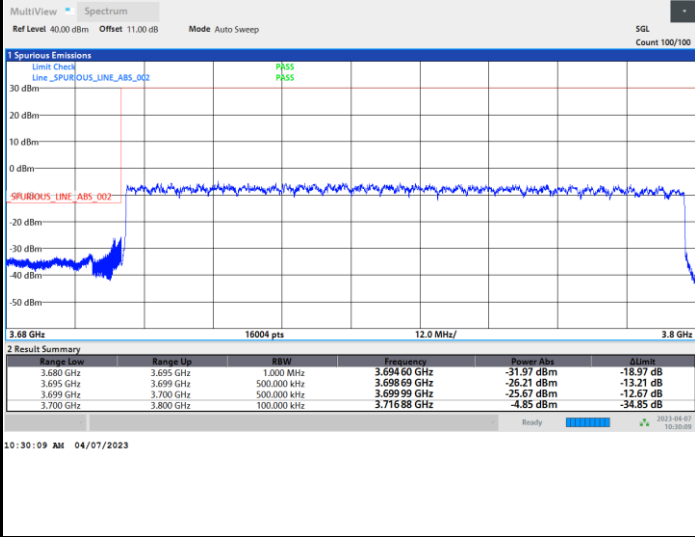




FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

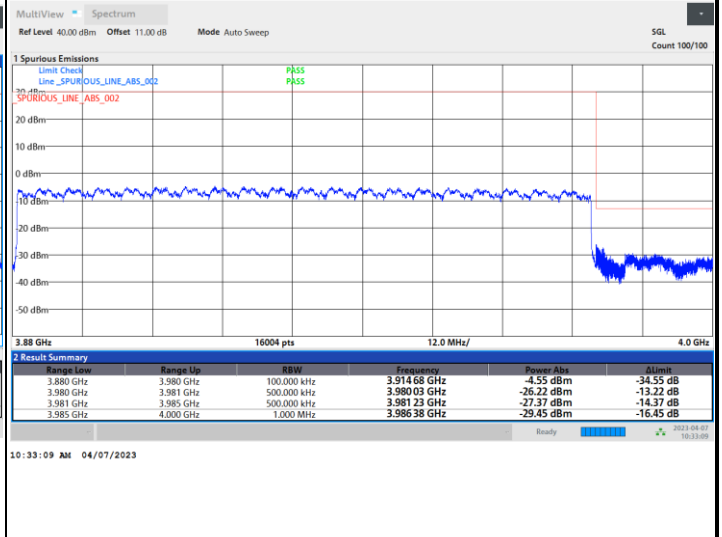
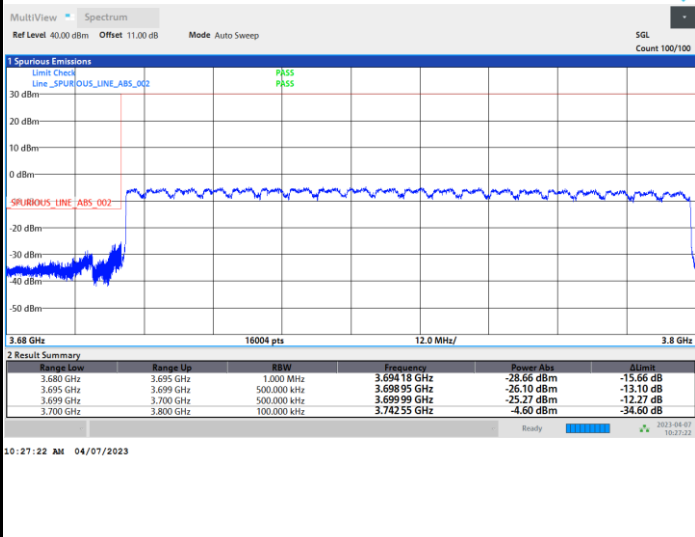
Highest Band Edge / Full RB



FR1 n77 / 100MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



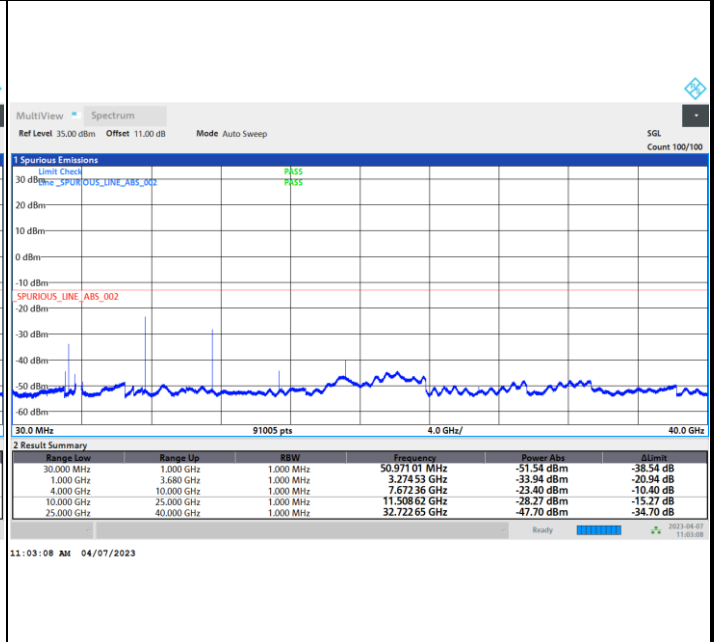
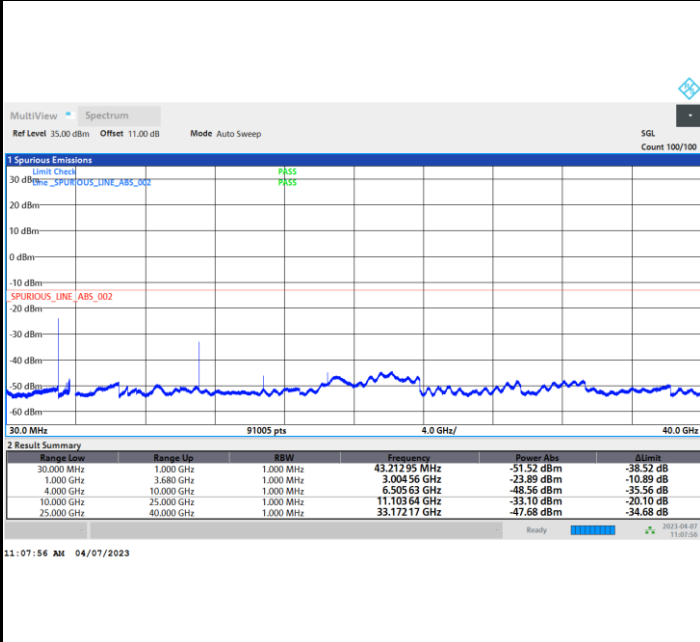


# Conducted Spurious Emission

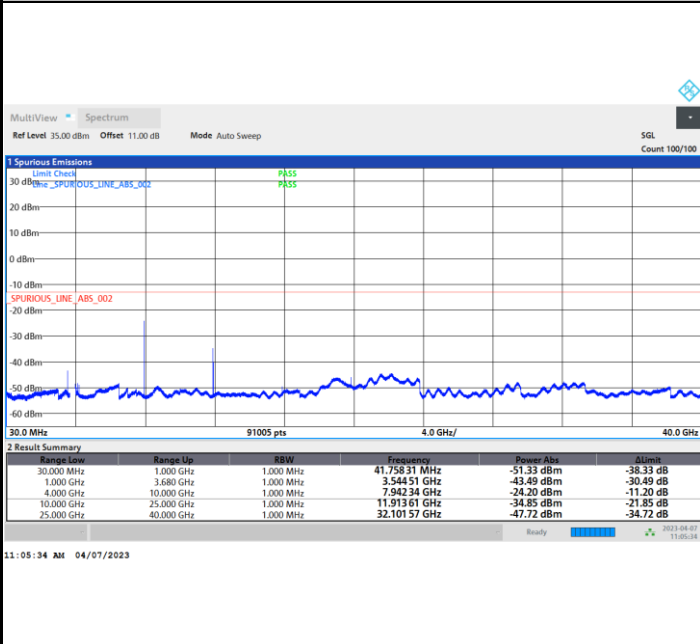
FR1 n77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

## Lowest Channel

## Middle Channel



## Highest Channel





### Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0189	PASS
40	Normal Voltage	0.0086	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0225	
0	Normal Voltage	0.0102	
-10	Normal Voltage	0.0184	
-20	Normal Voltage	0.0147	
-30	Normal Voltage	0.0041	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0225	

**Note:**

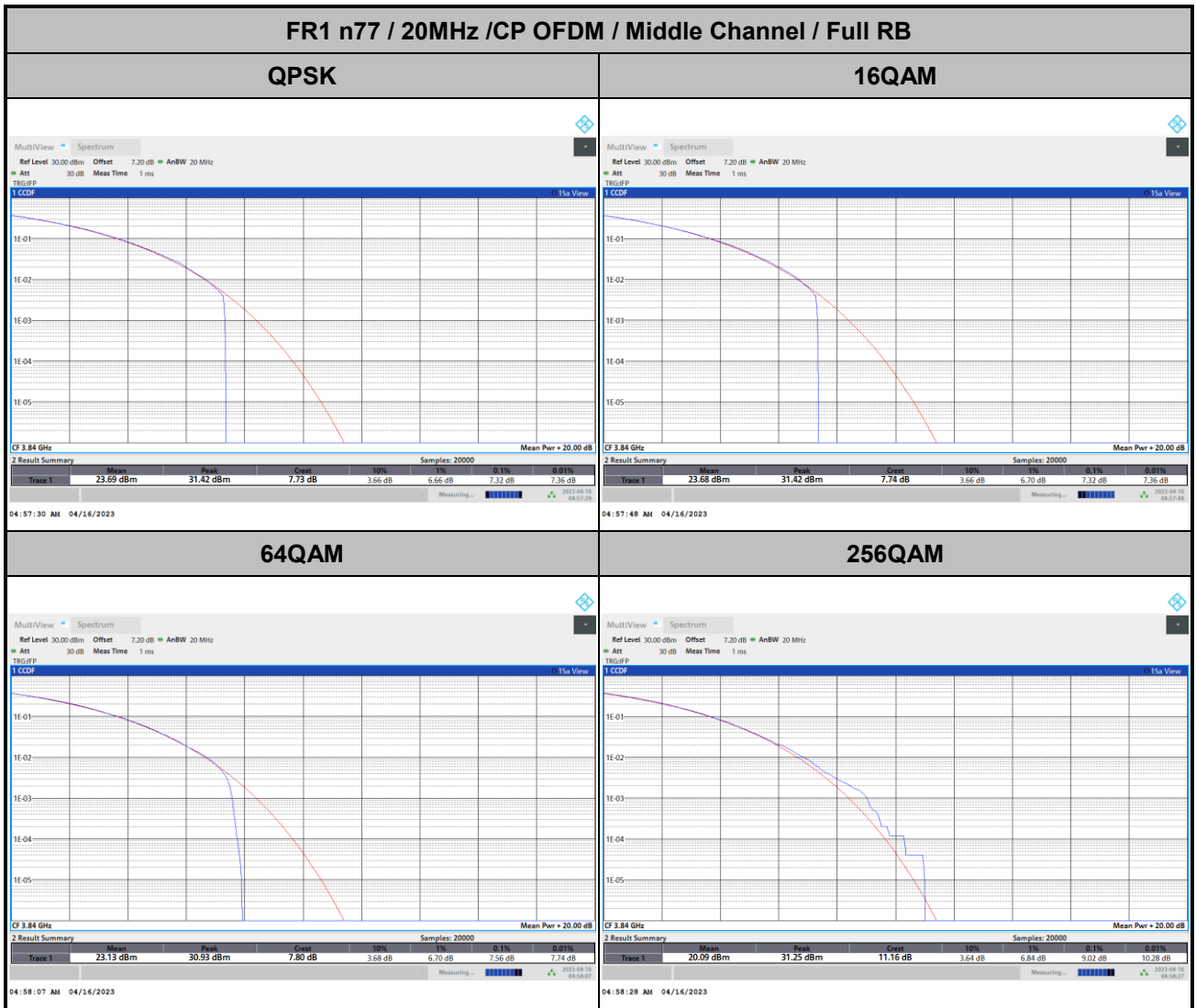
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



<MIMO Mode>  
MIMO <Ant. 6>

**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	7.32	7.32	7.56	9.02	PASS





**26dB Bandwidth**

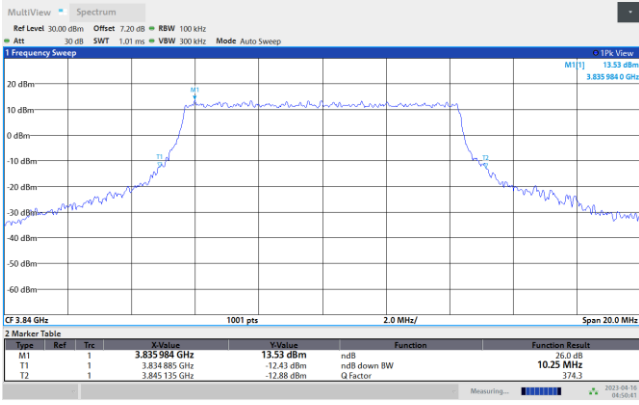
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.25	10.13	15.67	15.91	20.42	20.14	25.13	25.38
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.99	9.71	15.38	15.35	20.34	20.14	25.18	25.13
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	29.85	29.79	42.28	42.52	51.85	52.15	62.70	63.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	29.67	30.03	41.80	42.36	51.35	51.65	64.26	63.42
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	73.71	73.29	83.12	83.60	93.51	92.61	103.10	103.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	73.43	73.43	84.56	82.32	93.33	94.23	104.10	104.30



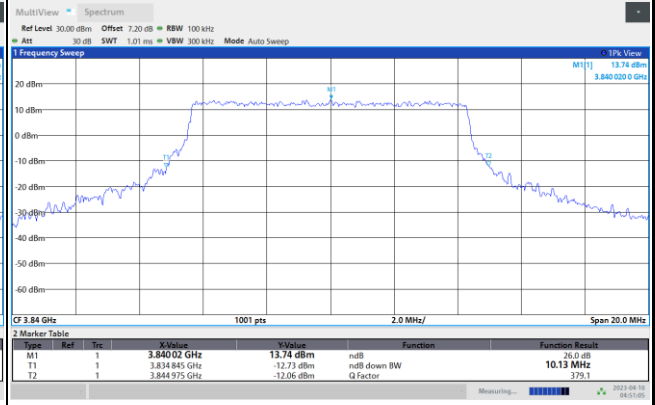
FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



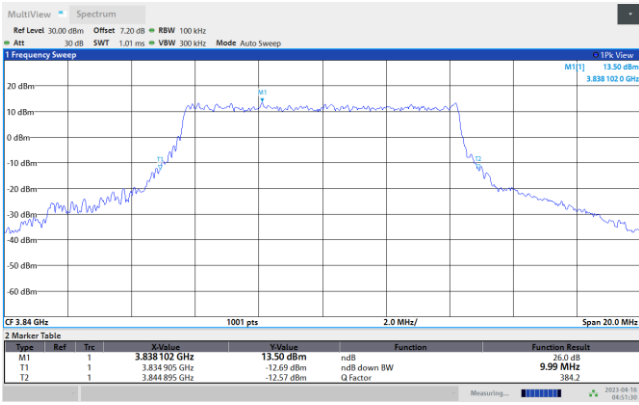
04:50:41 AM 04/16/2023



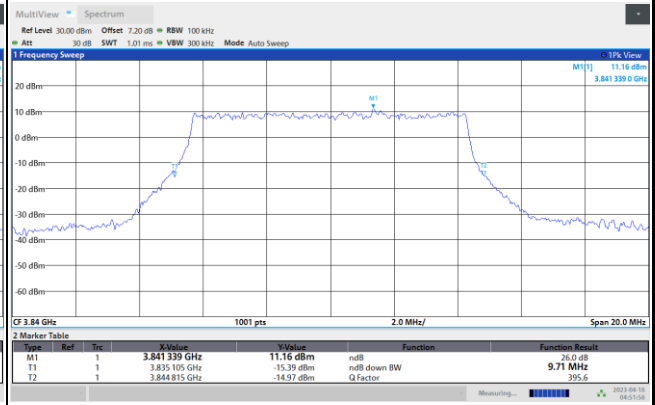
04:51:06 AM 04/16/2023

64QAM

256QAM



04:51:31 AM 04/16/2023



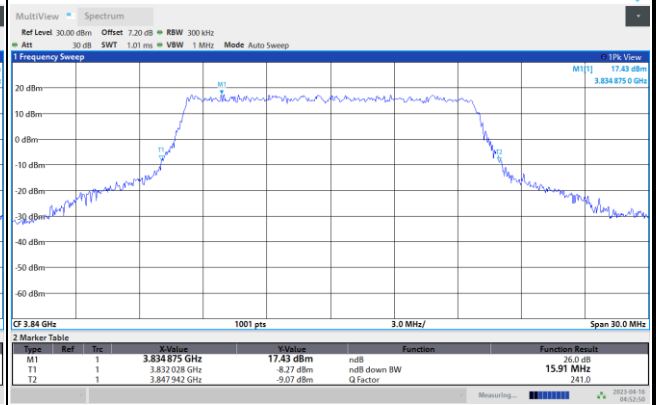
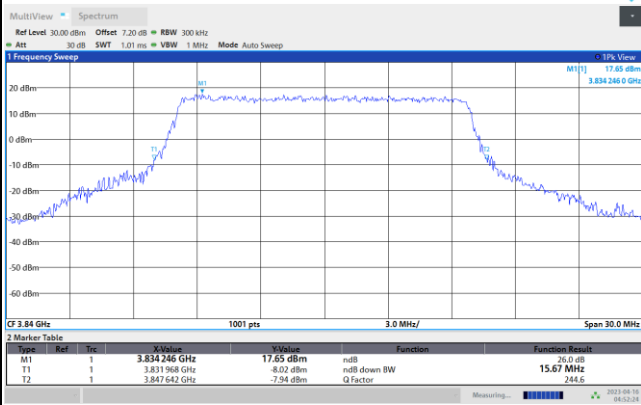
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FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

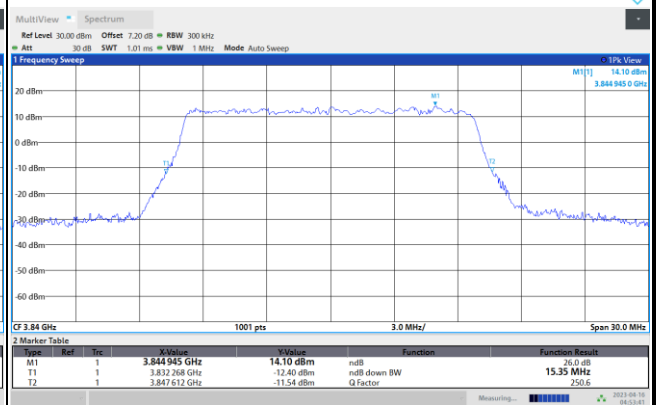
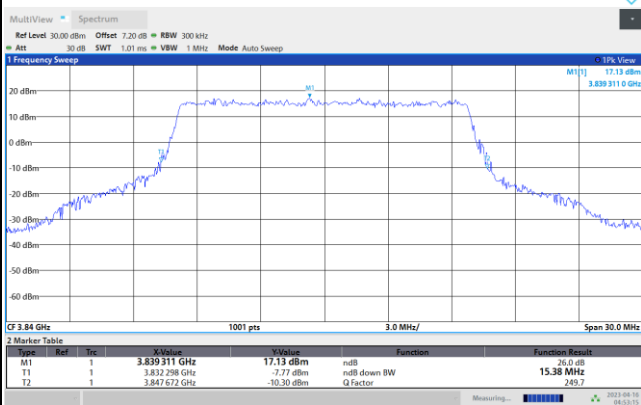
QPSK

16QAM



64QAM

256QAM



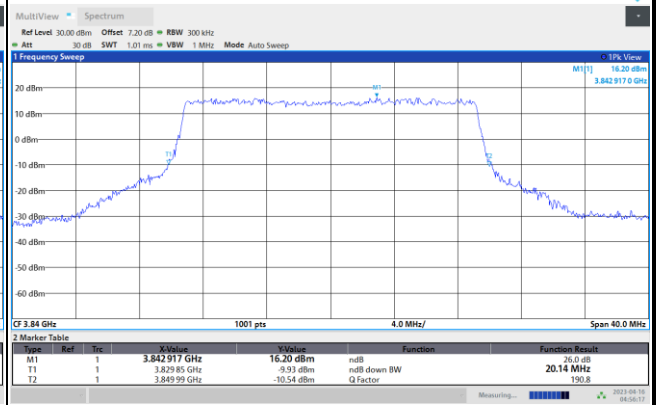
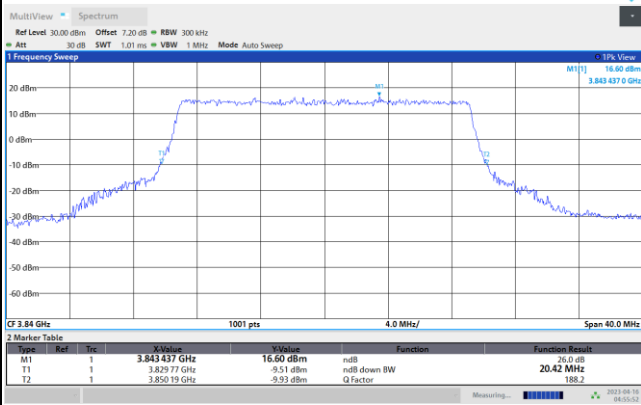




FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

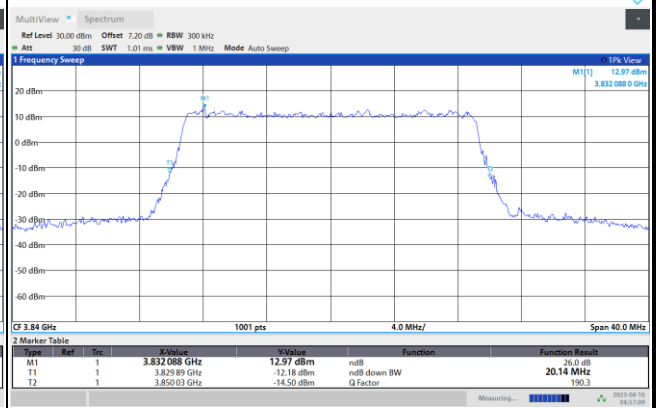
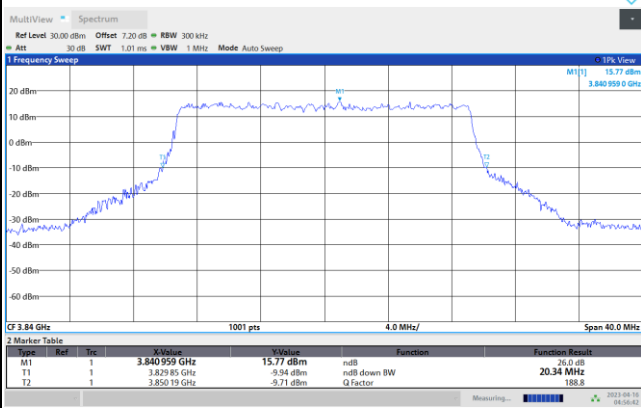
QPSK

16QAM



64QAM

256QAM

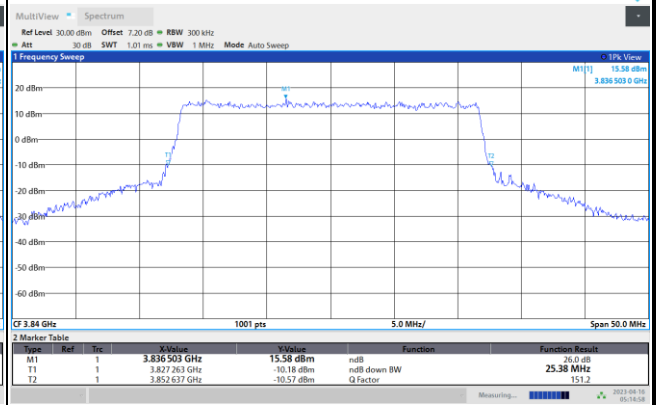
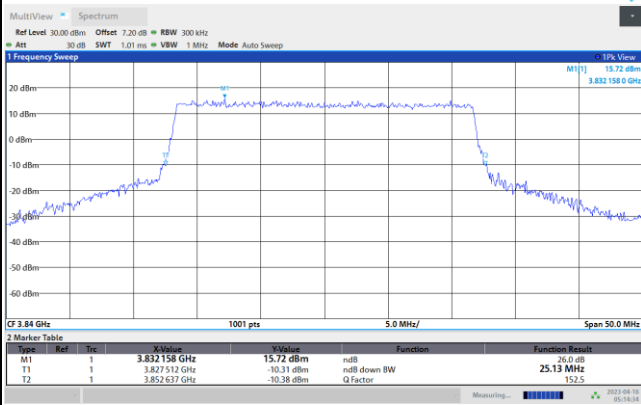




FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

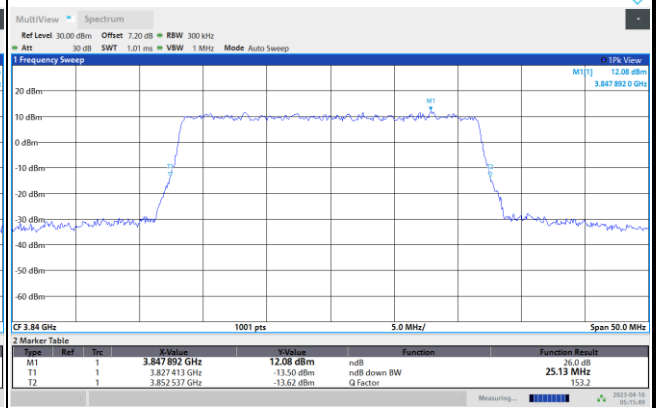
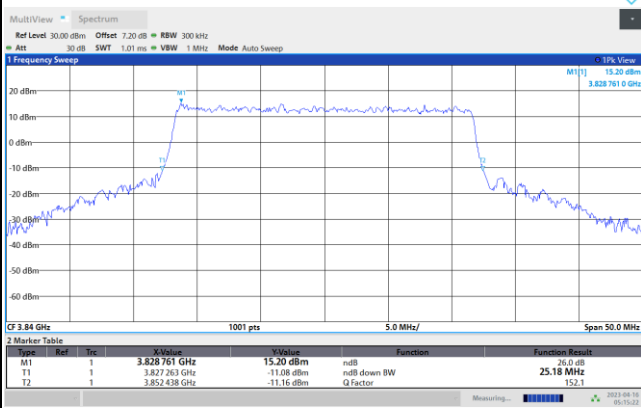
QPSK

16QAM



64QAM

256QAM

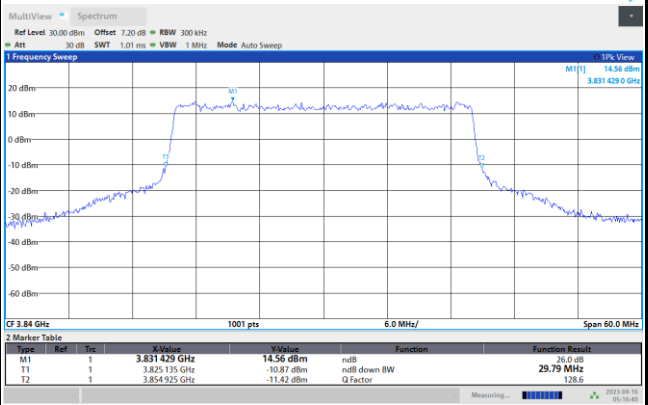
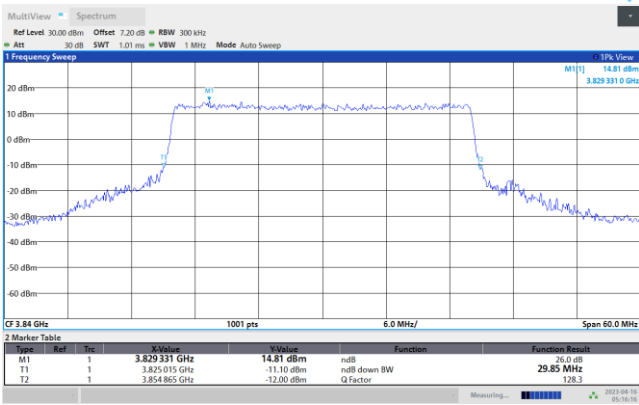




FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

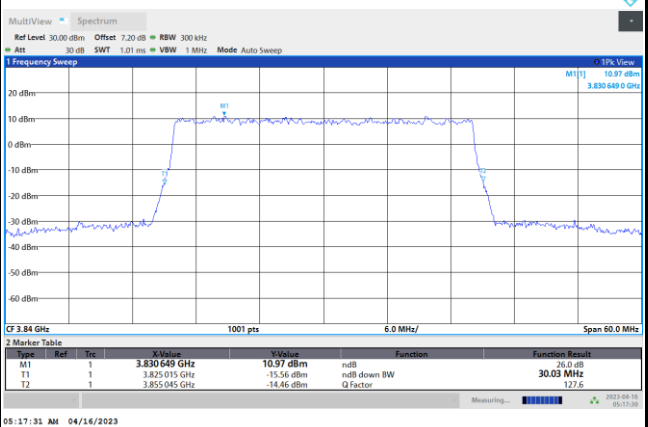
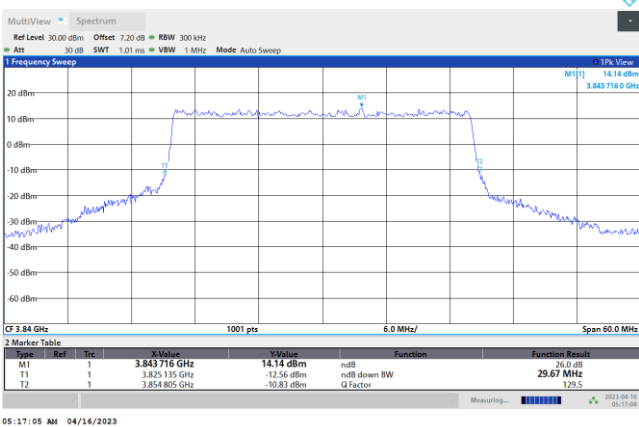
QPSK

16QAM



64QAM

256QAM

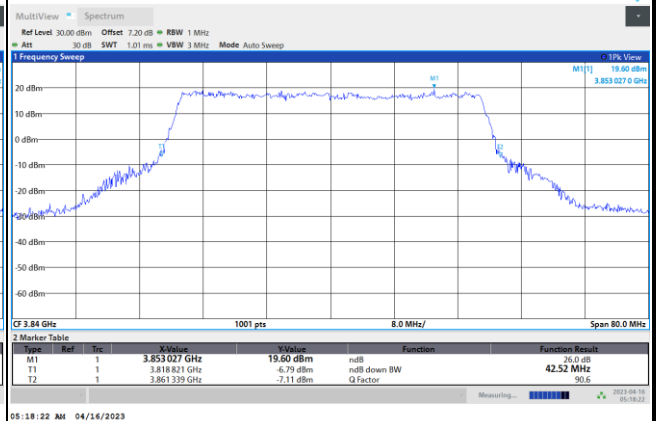
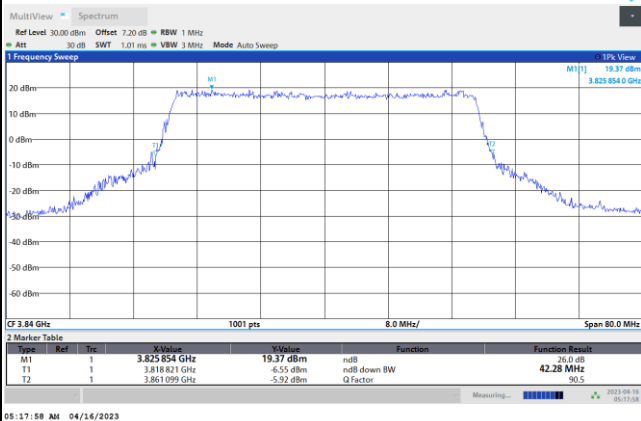




FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

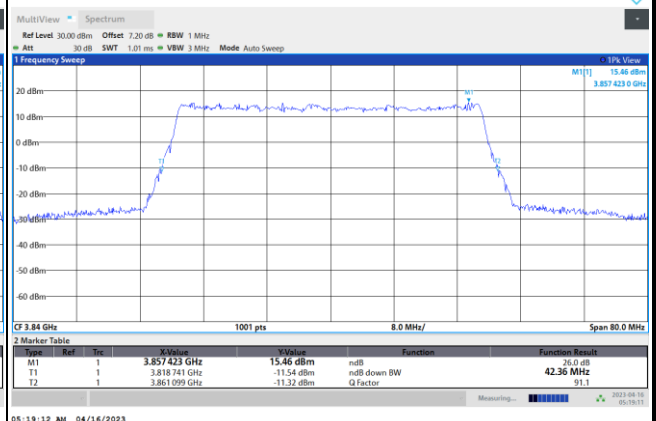
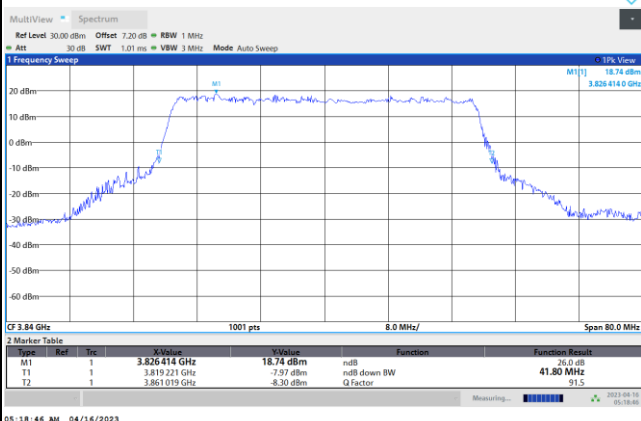
QPSK

16QAM



64QAM

256QAM

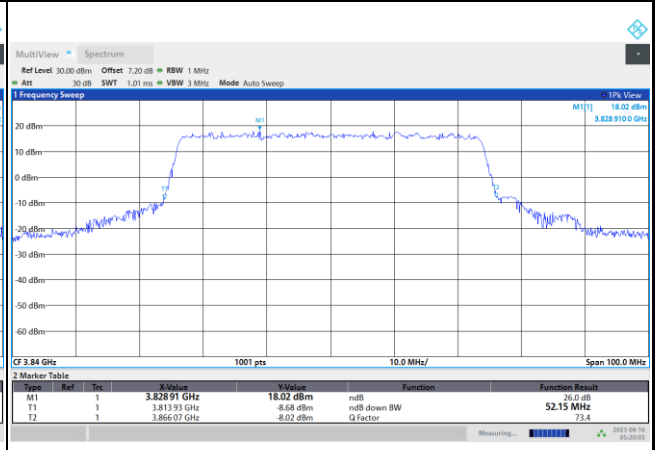
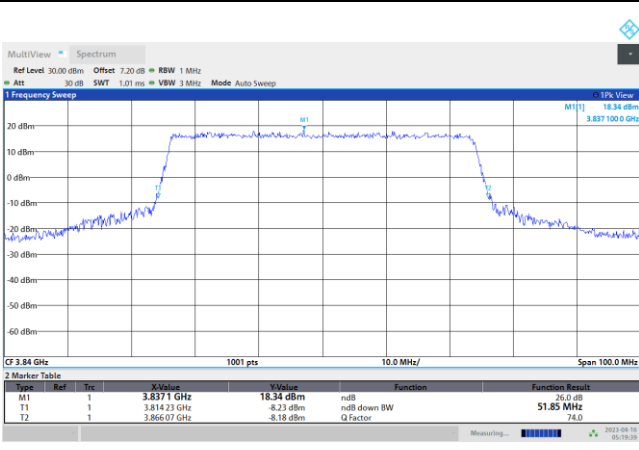




FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

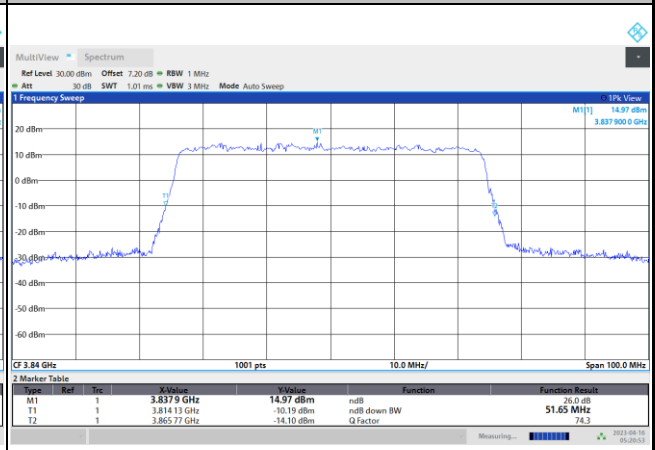
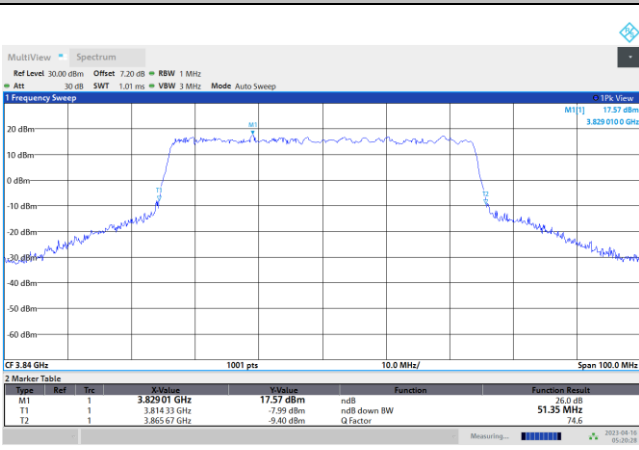
QPSK

16QAM



64QAM

256QAM

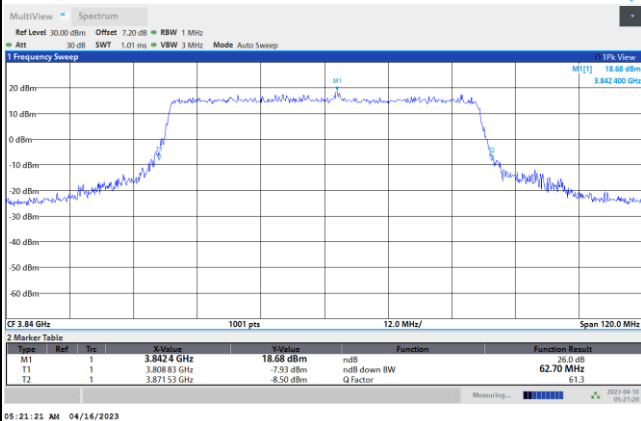




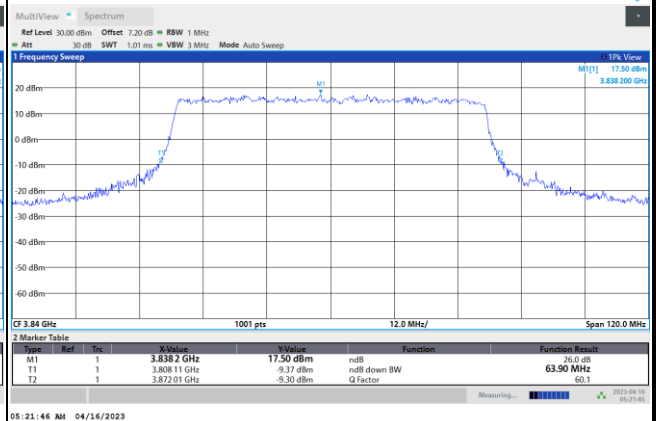
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



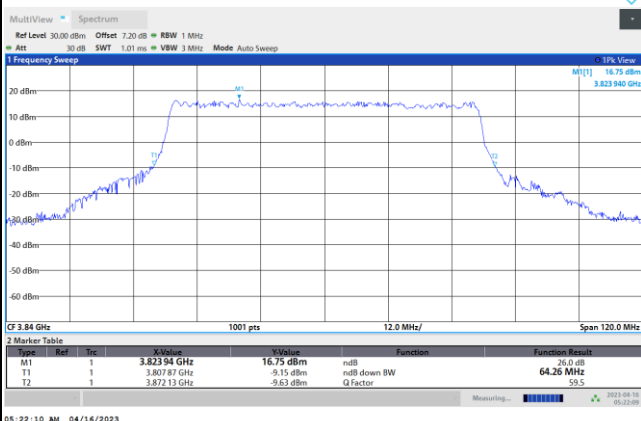
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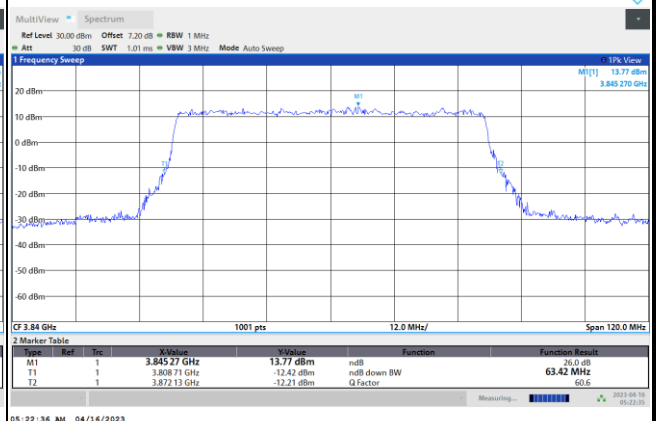
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64QAM

256QAM



05:22:10 AM 04/16/2023



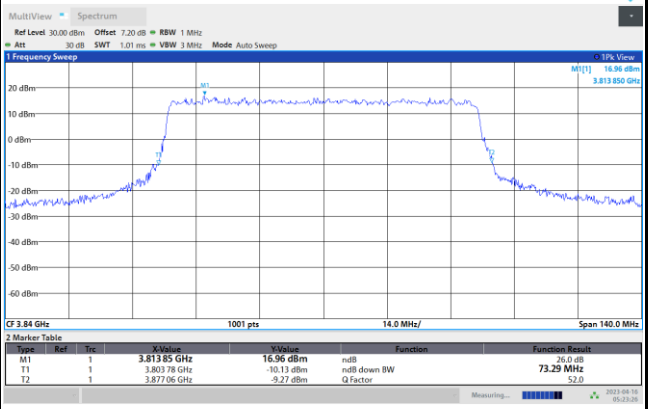
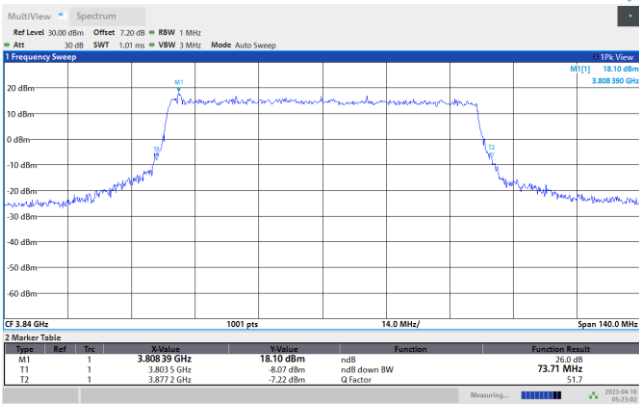
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FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

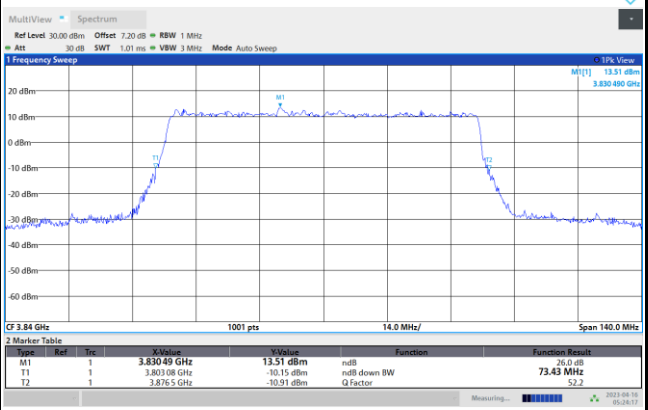
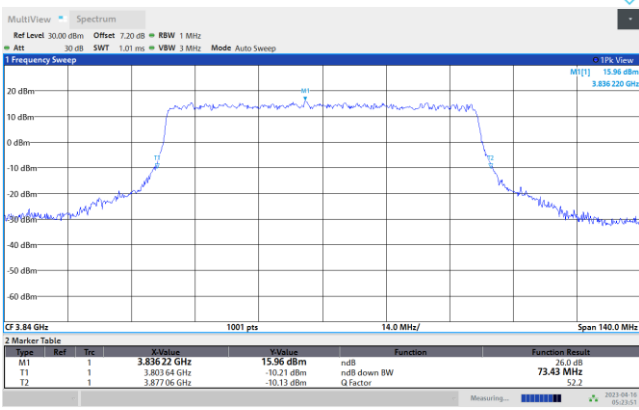
QPSK

16QAM



64QAM

256QAM

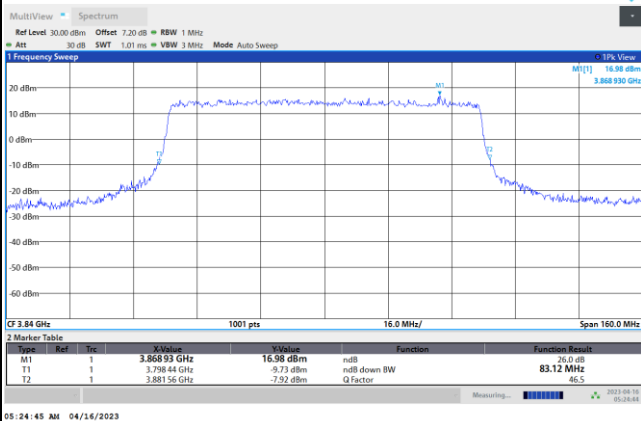




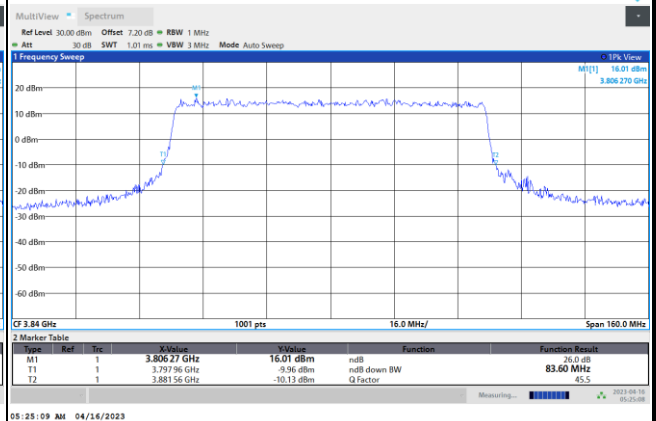
FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



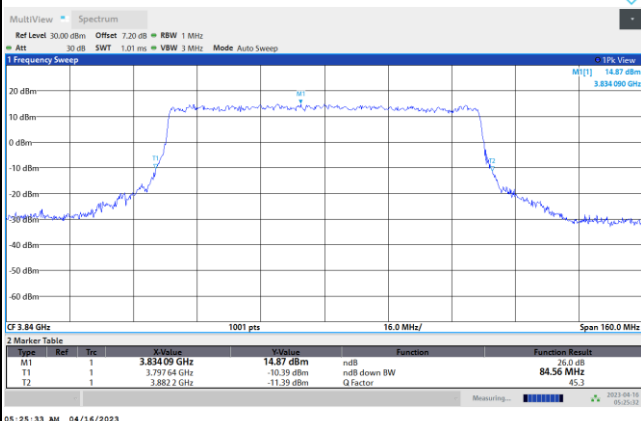
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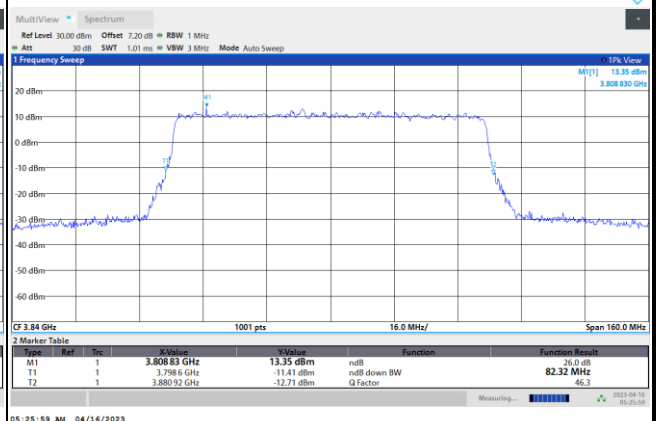
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64QAM

256QAM



05:25:33 AM 04/16/2023



05:25:59 AM 04/16/2023

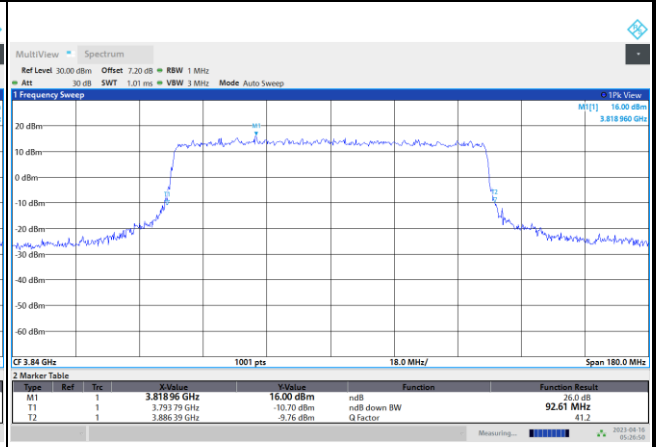
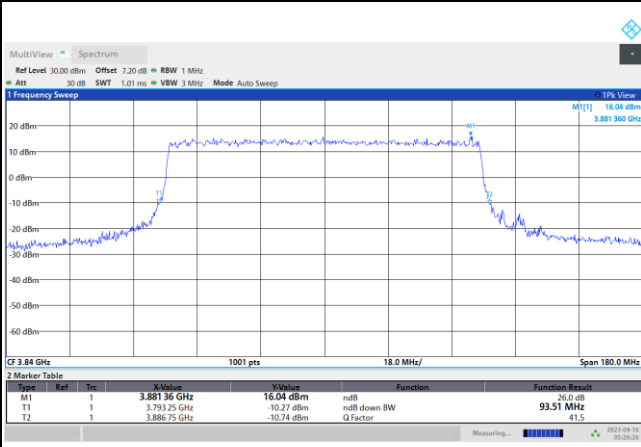




FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

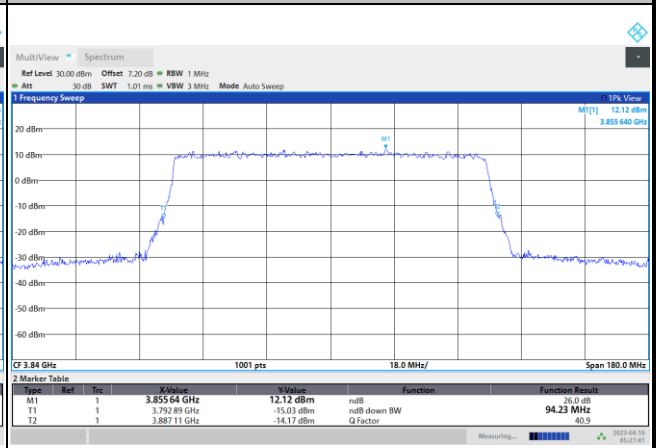
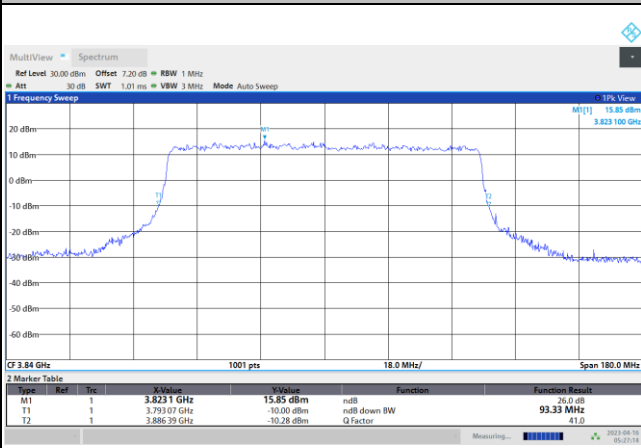
QPSK

16QAM



64QAM

256QAM

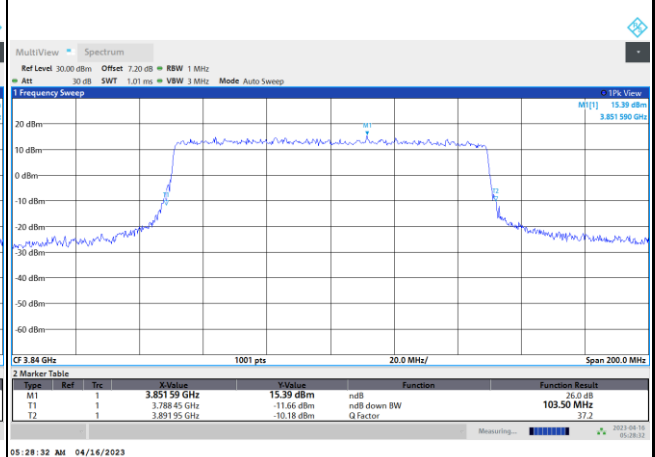
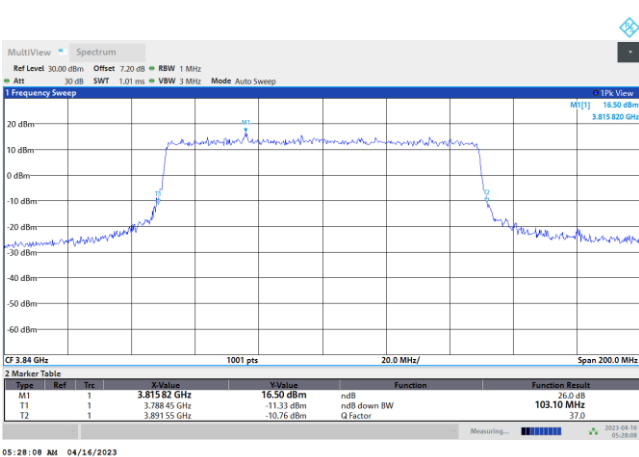




FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

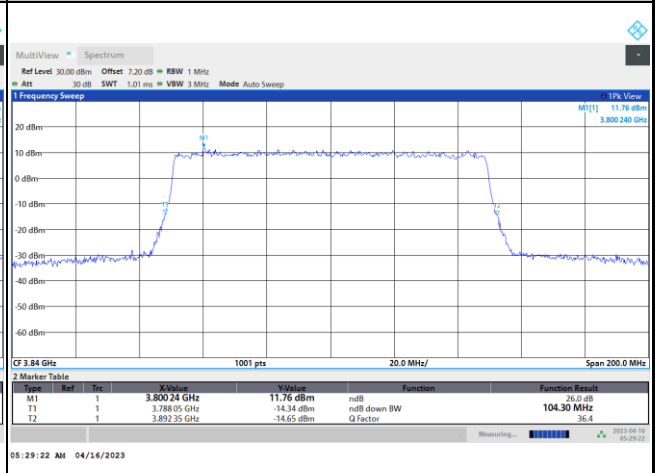
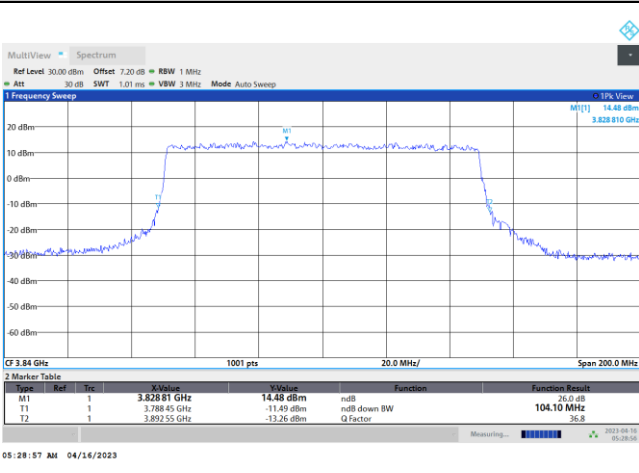
QPSK

16QAM



64QAM

256QAM





**Occupied Bandwidth**

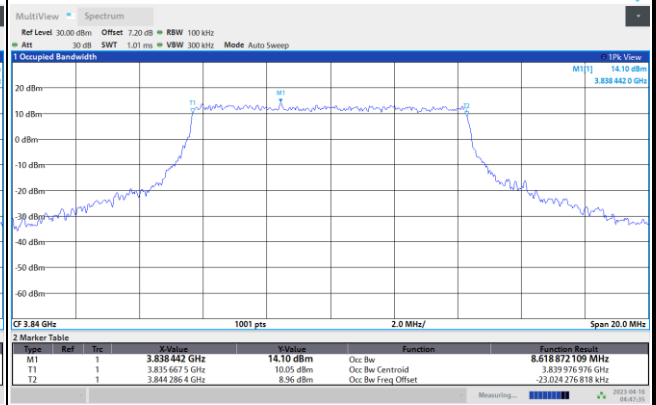
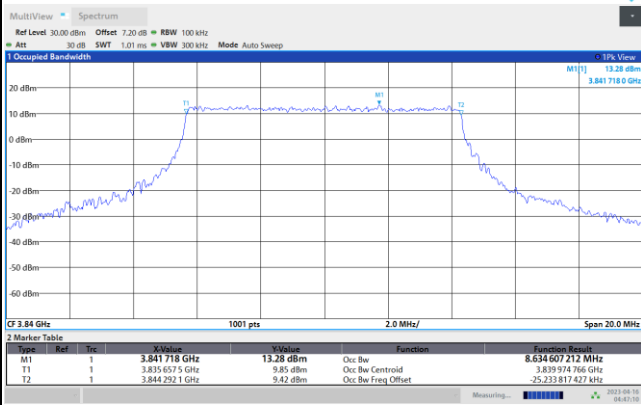
Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.63	8.61	13.67	13.77	18.30	18.33	23.25	23.25
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.63	8.62	13.69	13.64	18.29	18.28	23.26	23.23
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.93	27.86	38.19	38.32	47.70	47.65	57.92	57.95
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	27.89	27.95	38.21	38.32	47.53	47.60	57.96	57.87
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	67.57	67.49	77.54	77.45	87.39	87.37	97.28	97.35
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	67.60	67.61	77.43	77.36	87.24	87.56	97.45	97.40



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

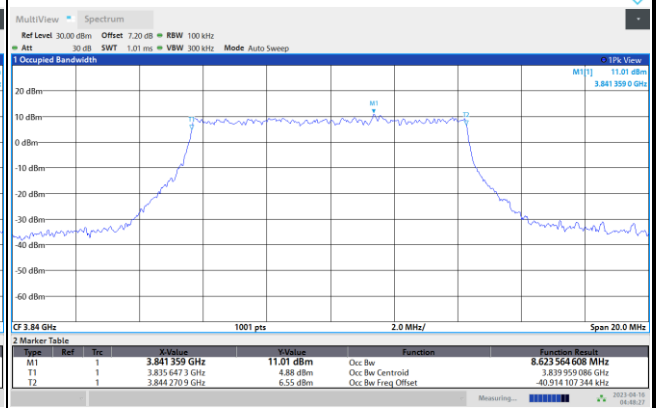
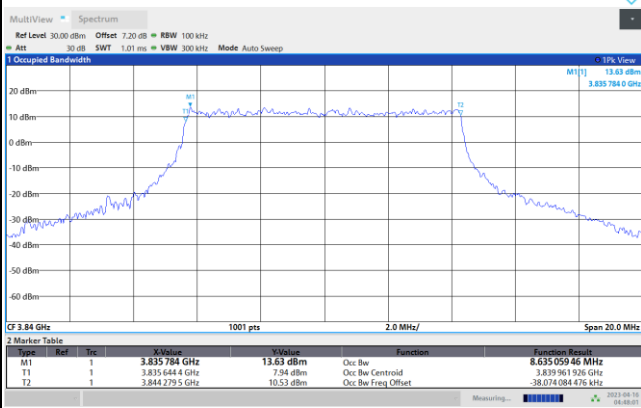
QPSK

16QAM



64QAM

256QAM

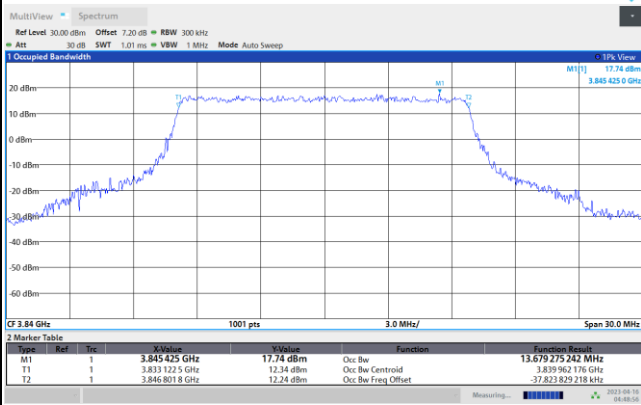




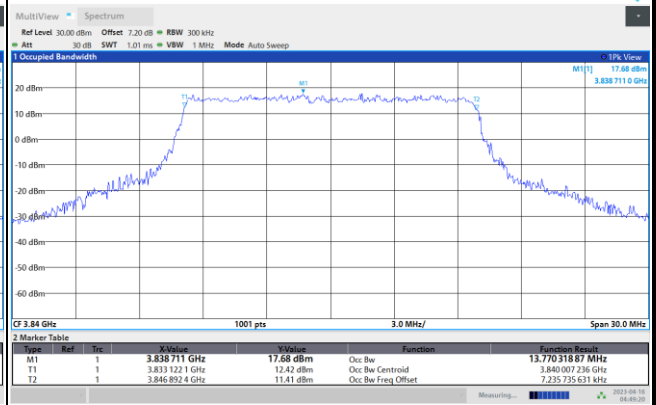
FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



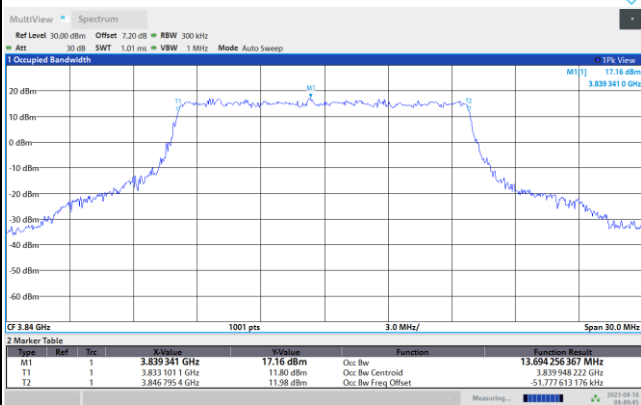
04:48:56 AM 04/16/2023



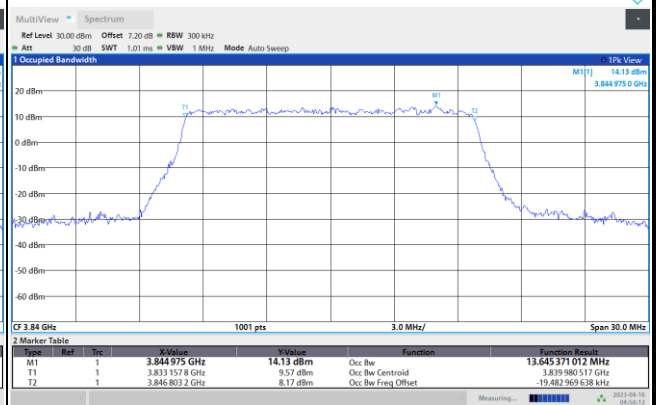
04:49:21 AM 04/16/2023

64QAM

256QAM



04:49:46 AM 04/16/2023



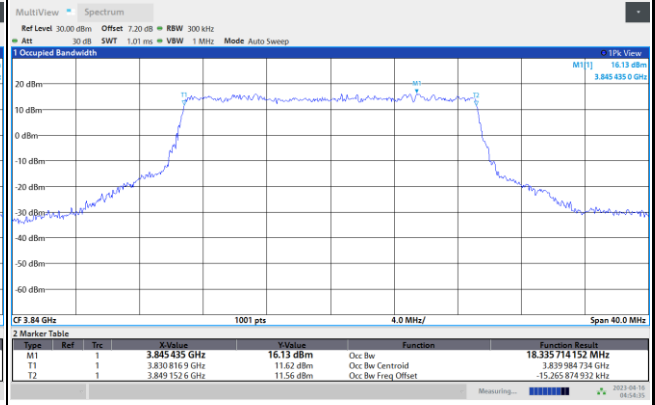
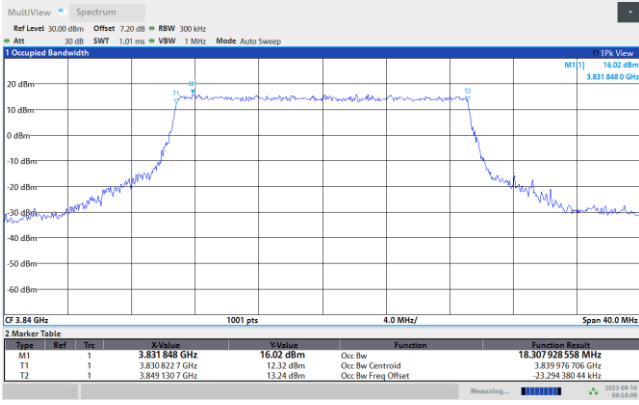
04:50:13 AM 04/16/2023



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

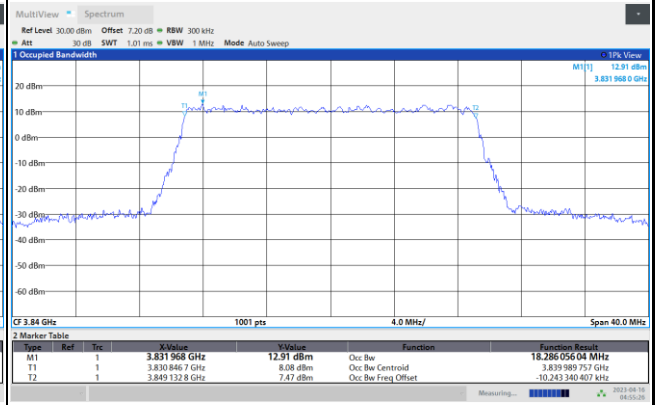
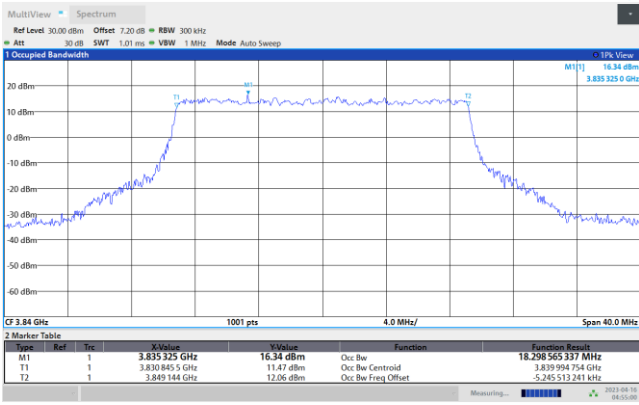
QPSK

16QAM



64QAM

256QAM

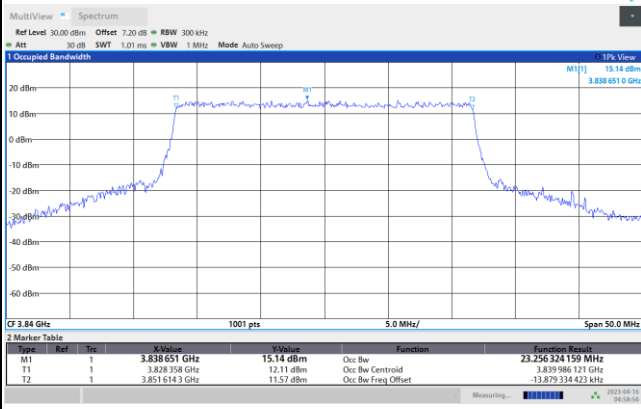




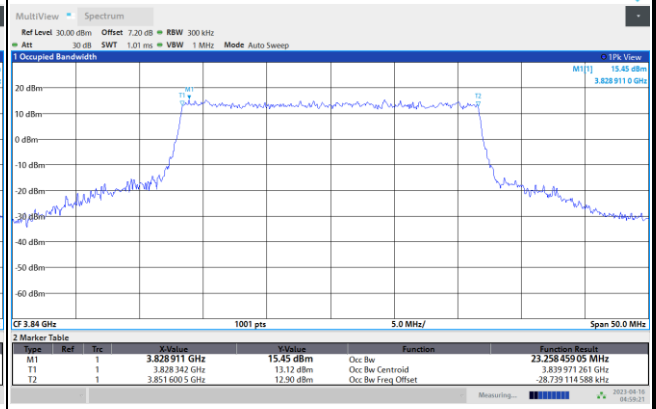
FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



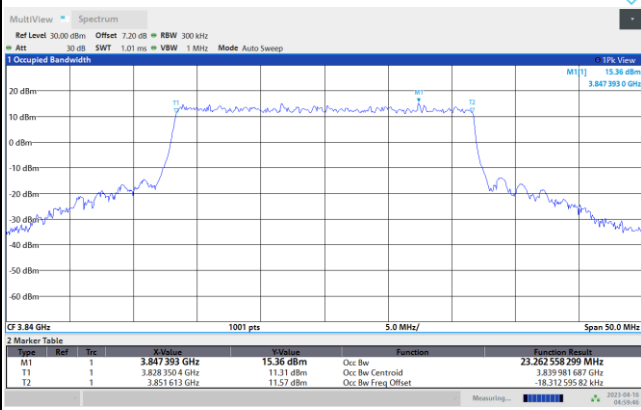
04:58:56 AM 04/16/2023



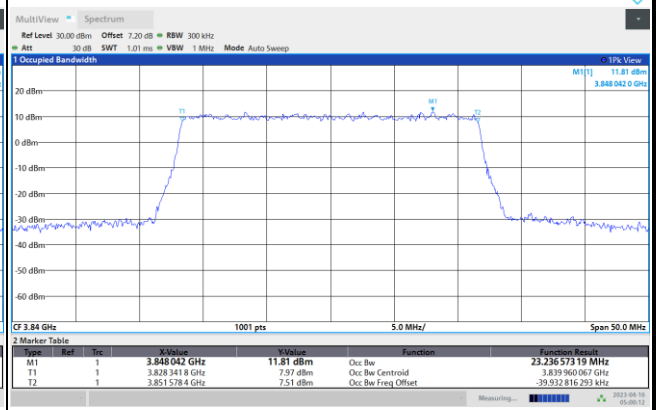
04:59:21 AM 04/16/2023

64QAM

256QAM



04:59:46 AM 04/16/2023



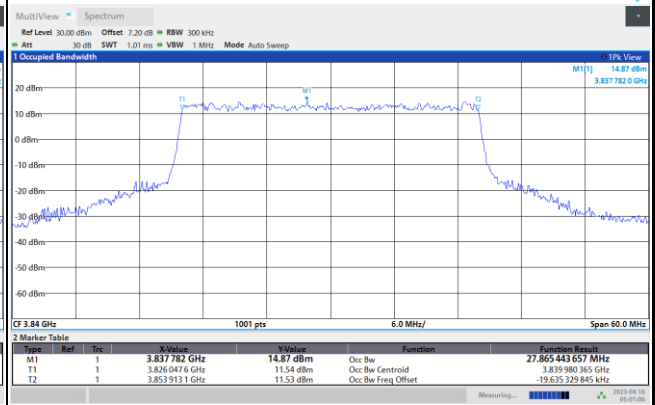
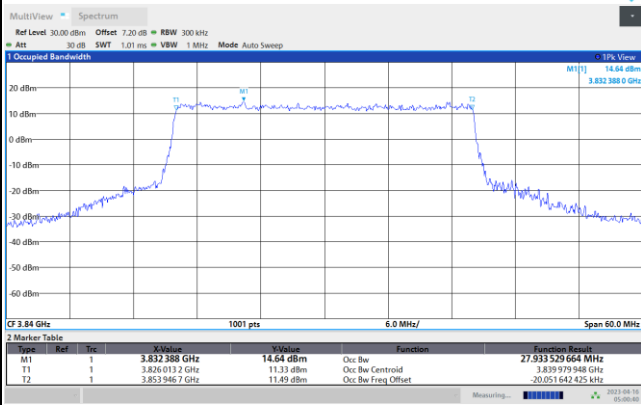
05:00:13 AM 04/16/2023



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

QPSK

16QAM

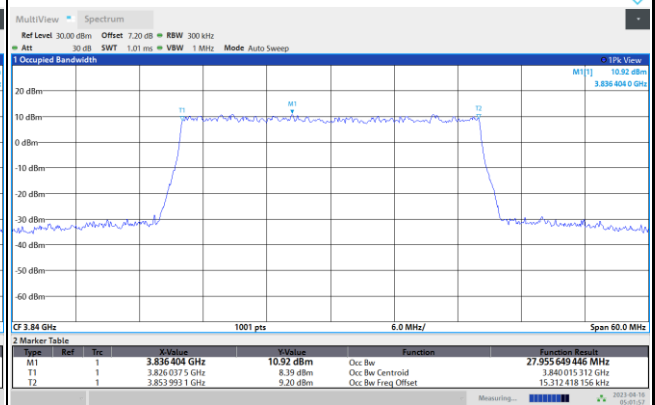
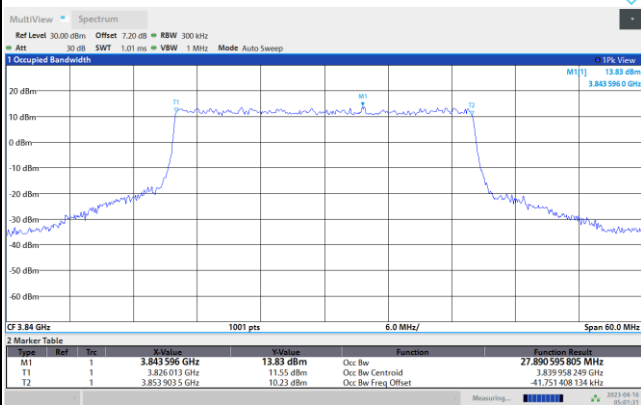


05:00:41 AM 04/16/2023

05:01:06 AM 04/16/2023

64QAM

256QAM



05:01:31 AM 04/16/2023

05:01:58 AM 04/16/2023

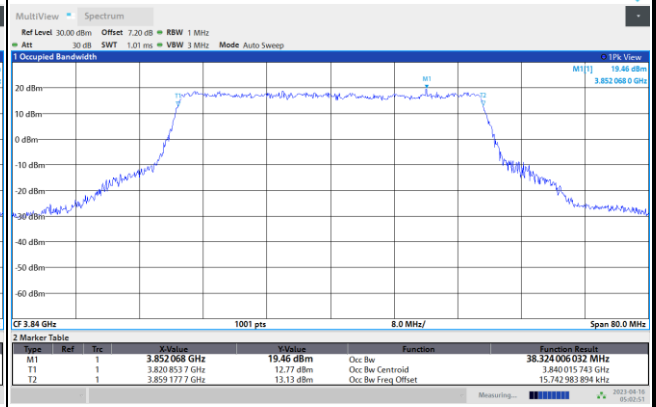
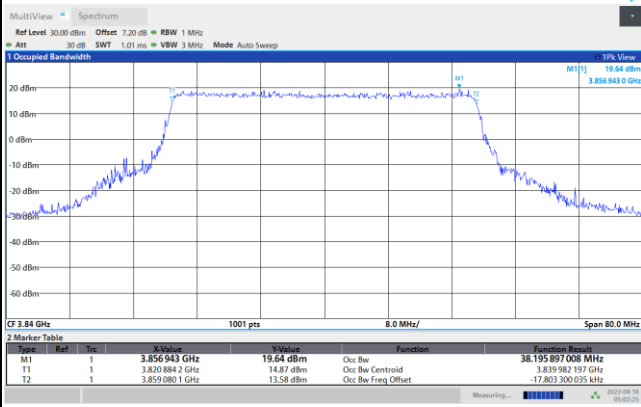




FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM

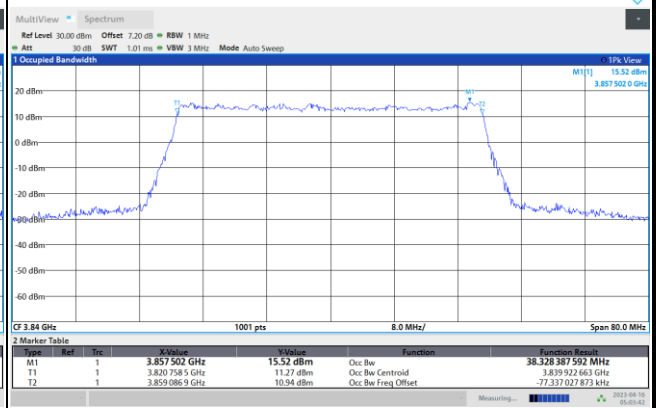
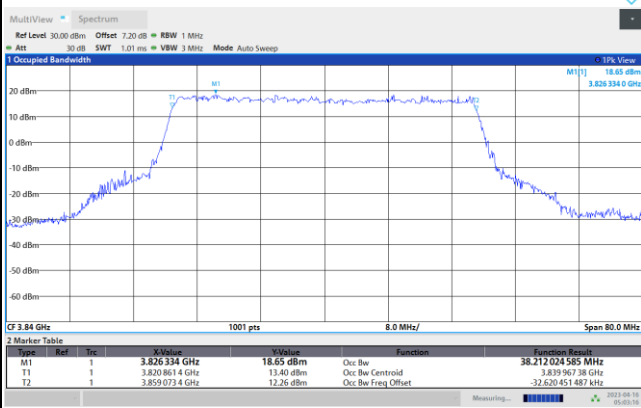


05:02:26 AM 04/16/2023

05:02:51 AM 04/16/2023

64QAM

256QAM



05:03:14 AM 04/16/2023

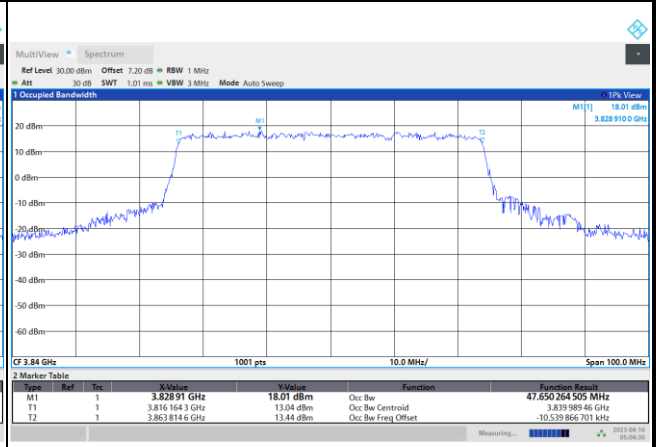
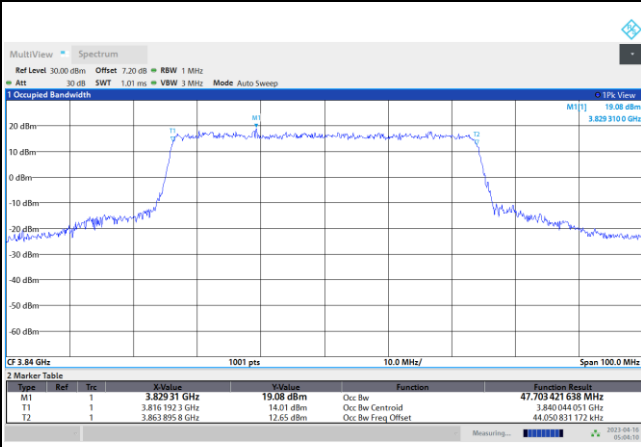
05:03:43 AM 04/16/2023



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

QPSK

16QAM

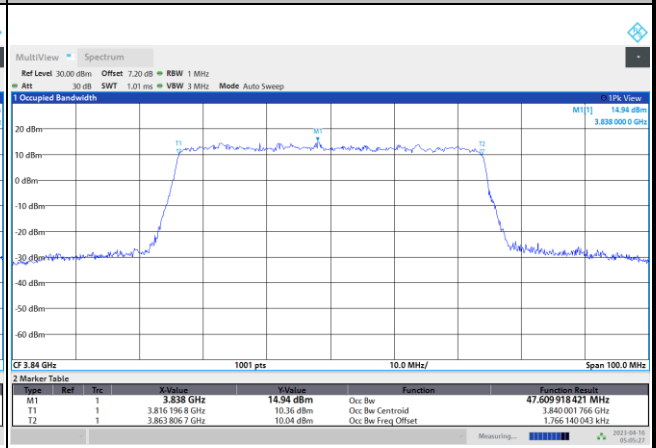
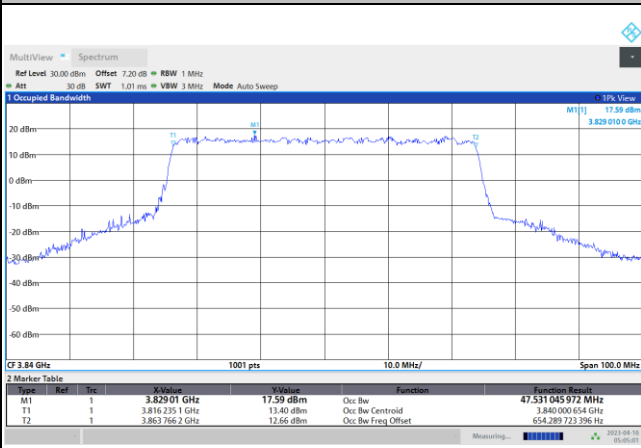


05:04:11 AM 04/16/2023

05:04:36 AM 04/16/2023

64QAM

256QAM



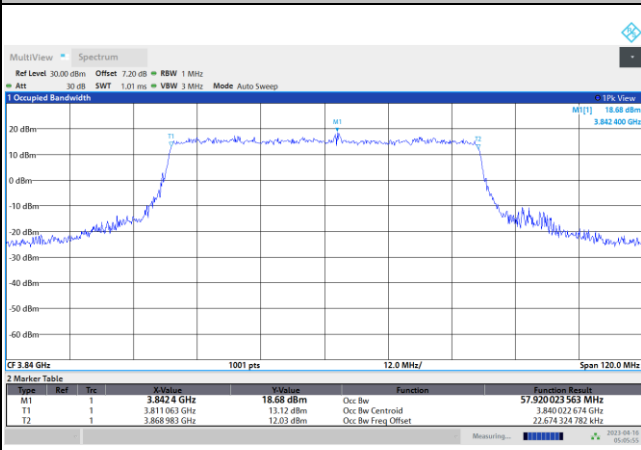
05:05:01 AM 04/16/2023

05:05:27 AM 04/16/2023



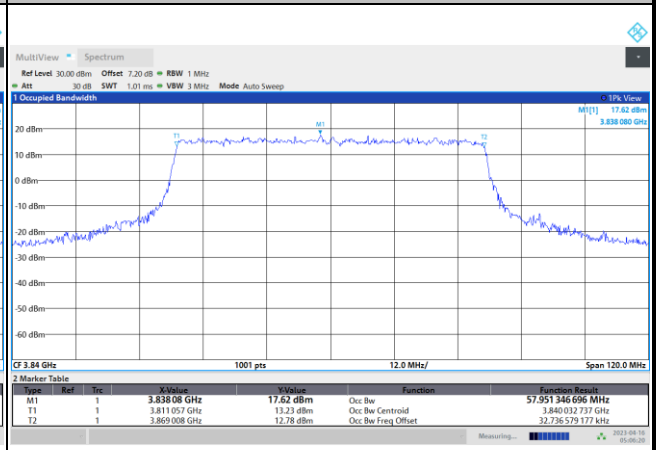
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



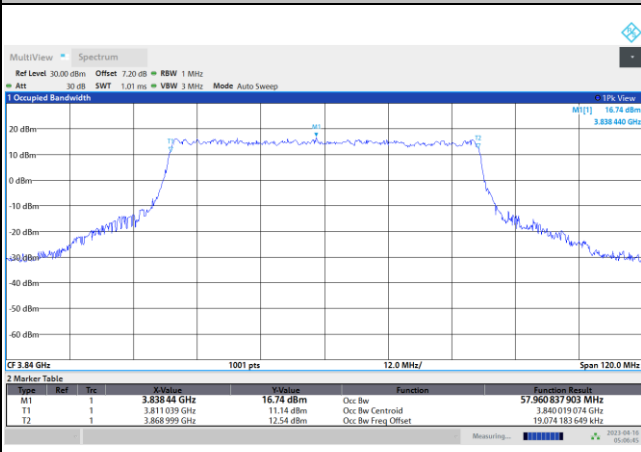
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16QAM



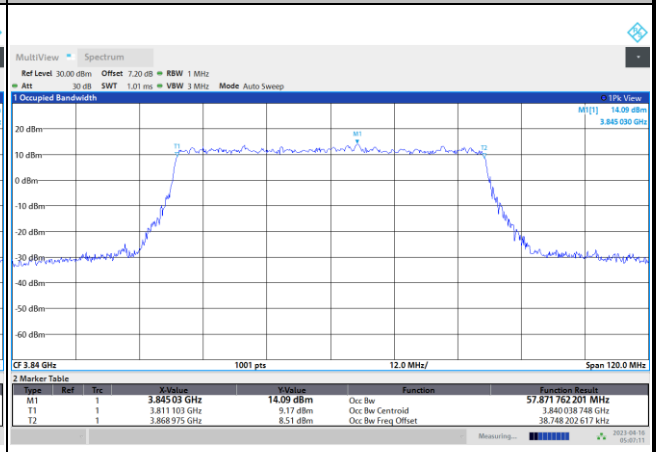
05:06:21 AM 04/16/2023

64QAM



05:06:46 AM 04/16/2023

256QAM



05:07:12 AM 04/16/2023