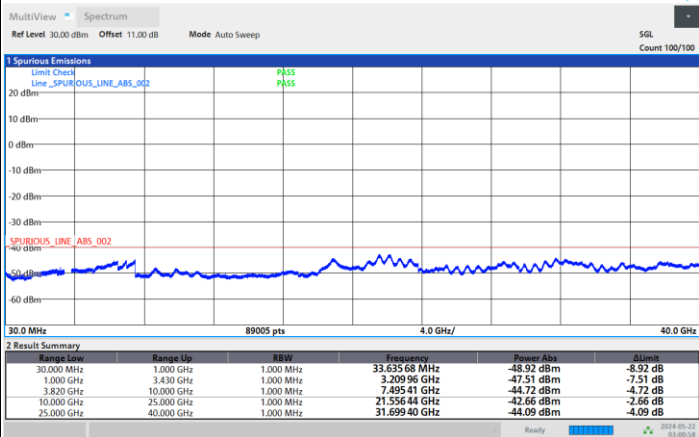
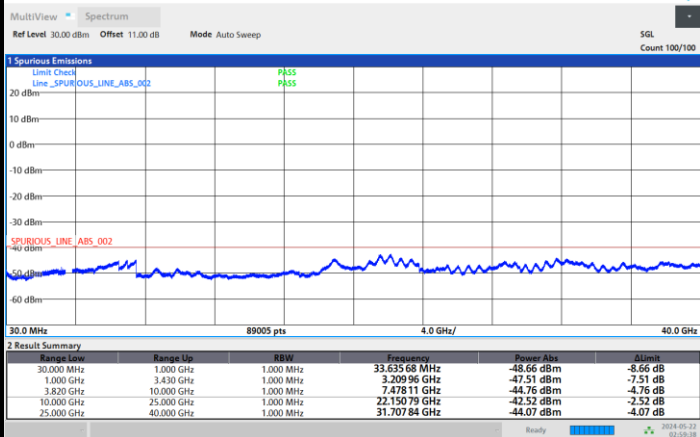




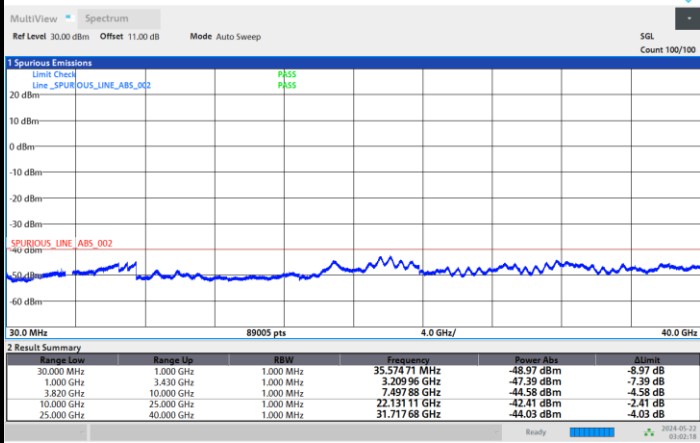
FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel

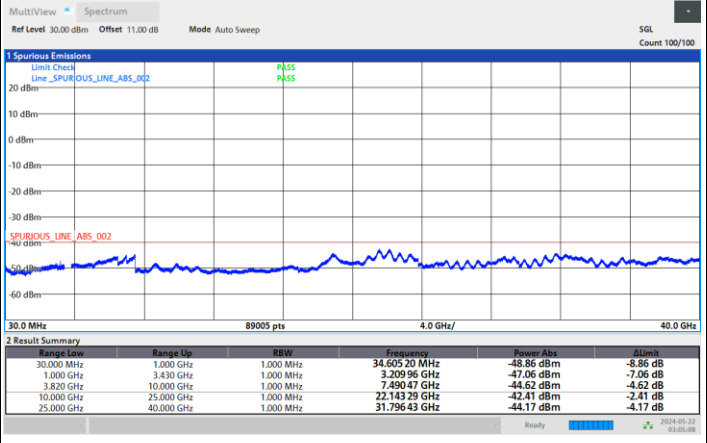
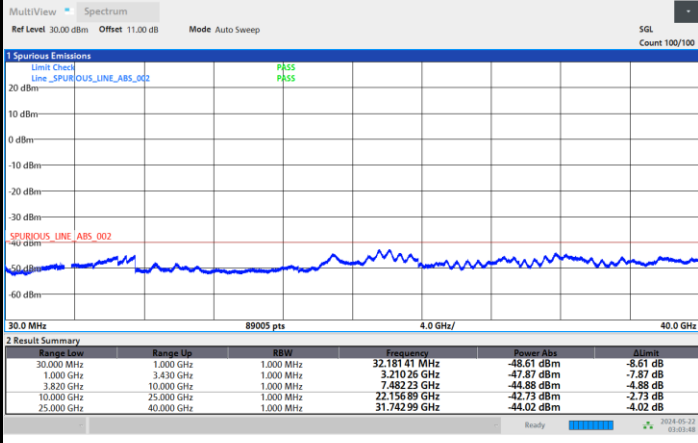




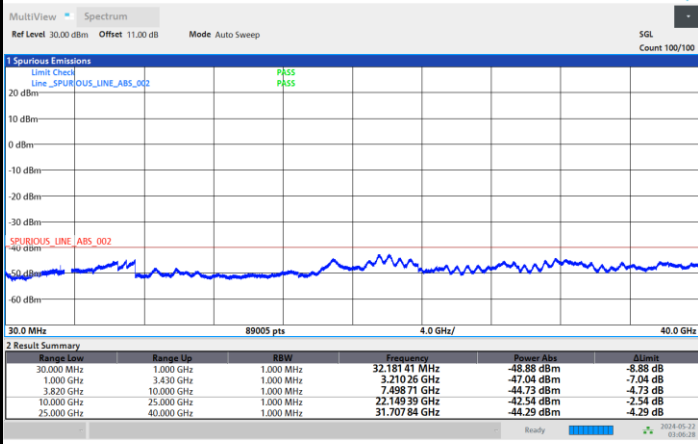
FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel

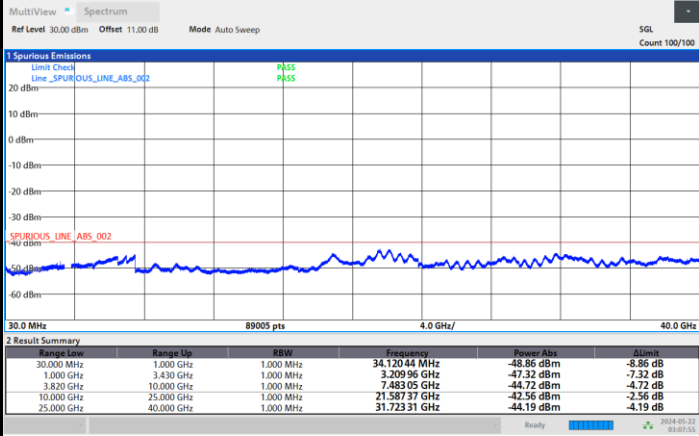




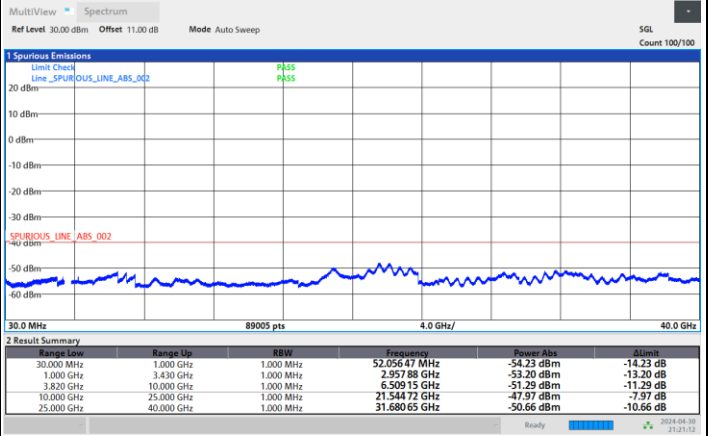
FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel

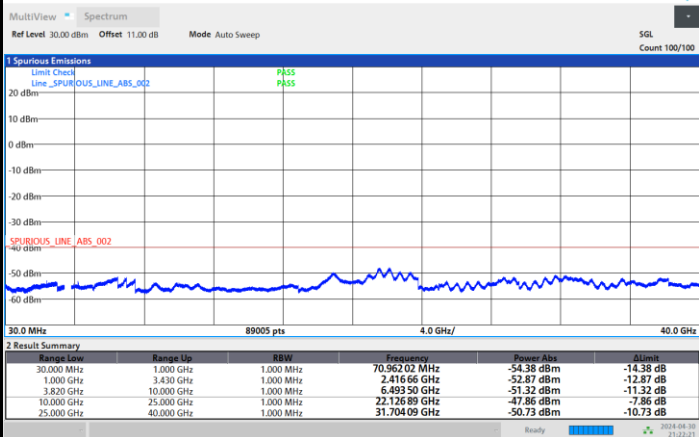


03:07:55 AM 05/22/2024



09:21:13 PM 04/30/2024

Highest Channel



09:22:21 PM 04/30/2024



Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0004	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Note:

- 1. Normal Voltage = 3.86 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

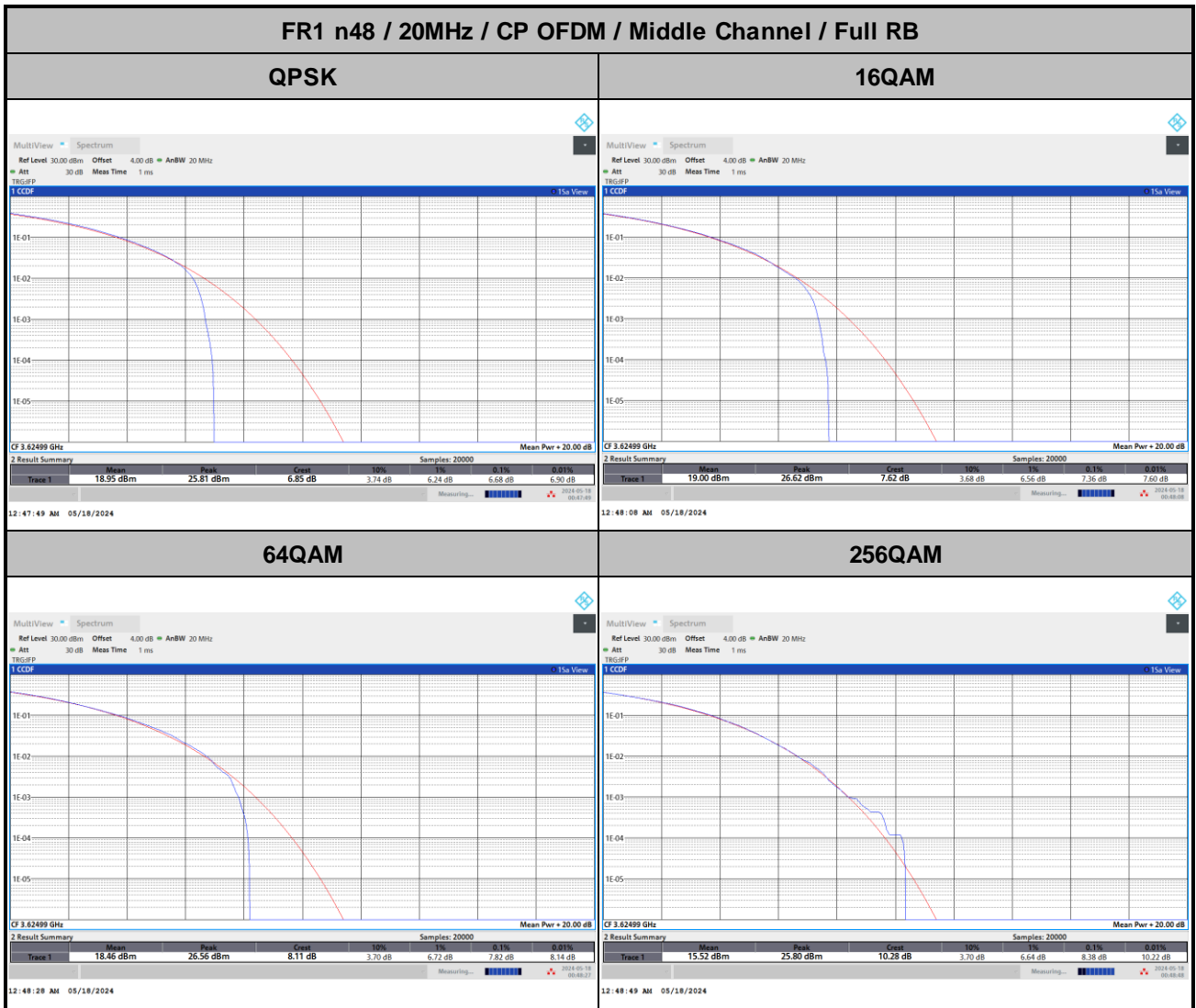


<MIMO Mode>

MIMO <Ant. 6>

Peak-to-Average Ratio

Mode	FR1 n48 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.68	7.36	7.82	8.38	PASS





26dB Bandwidth

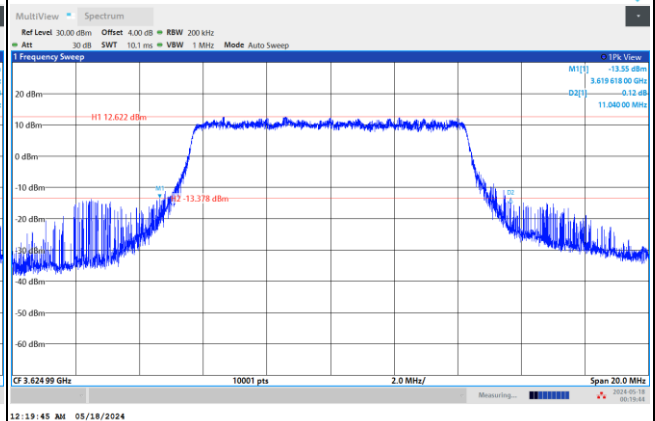
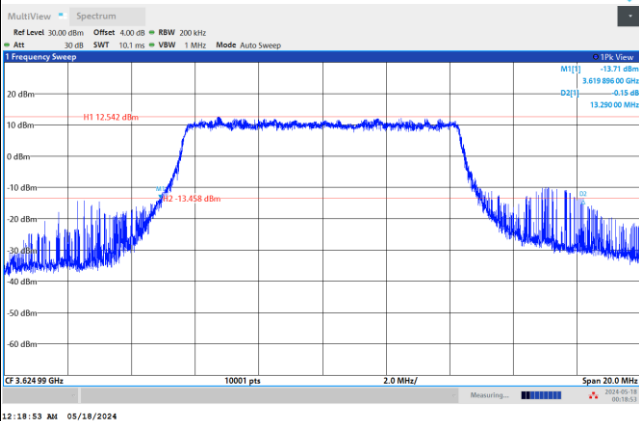
Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	13.29	11.04	26.82	24.84	35.05	35.96	47.87	46.83
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.70	13.83	23.76	24.14	32.56	36.43	44.54	44.41



FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

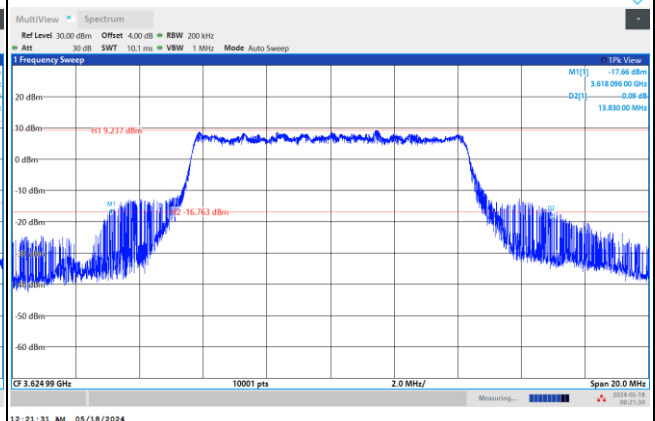
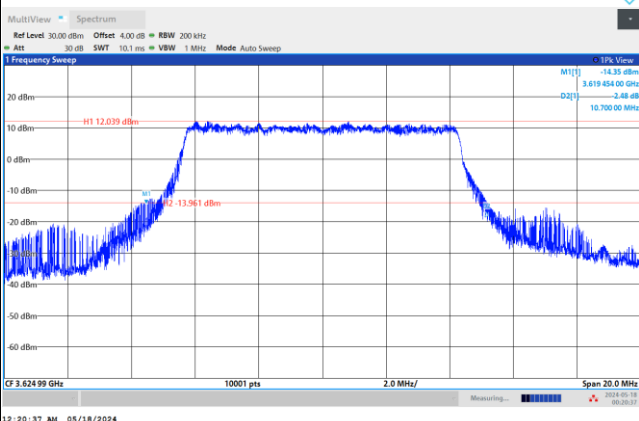
QPSK

16QAM



64QAM

256QAM

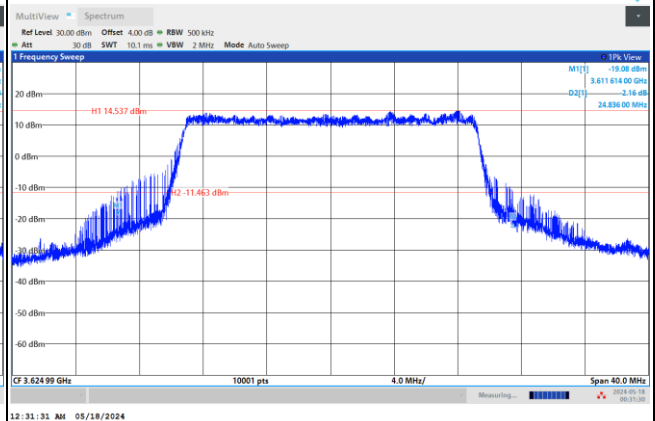
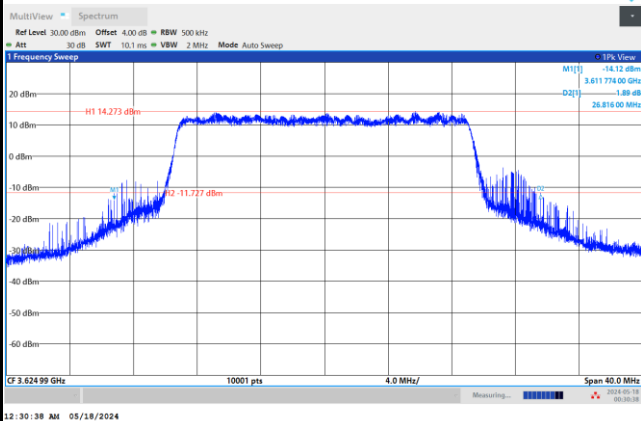




FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

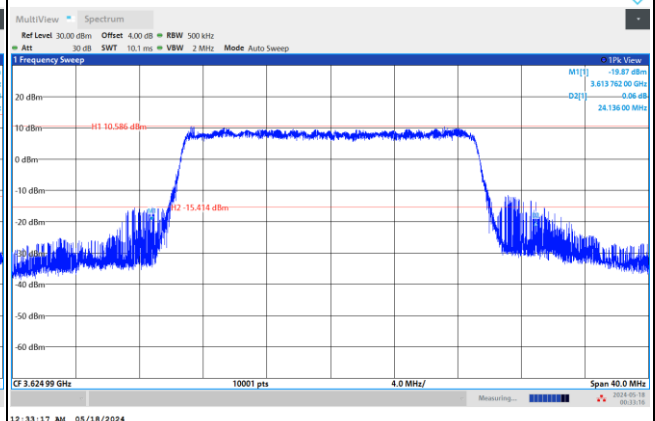
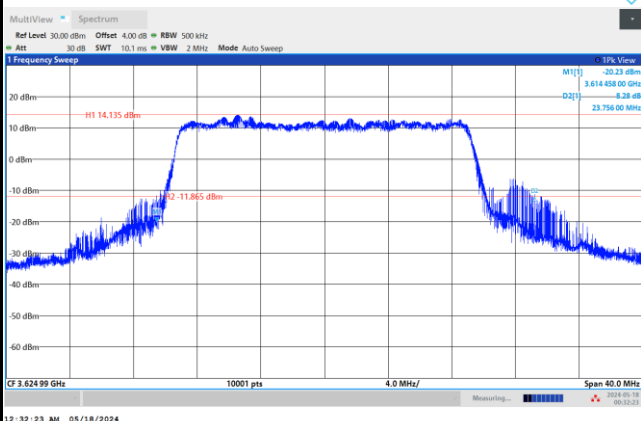
QPSK

16QAM



64QAM

256QAM

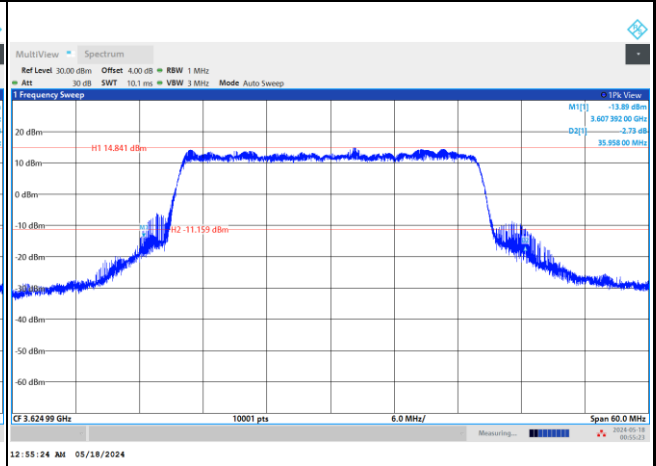
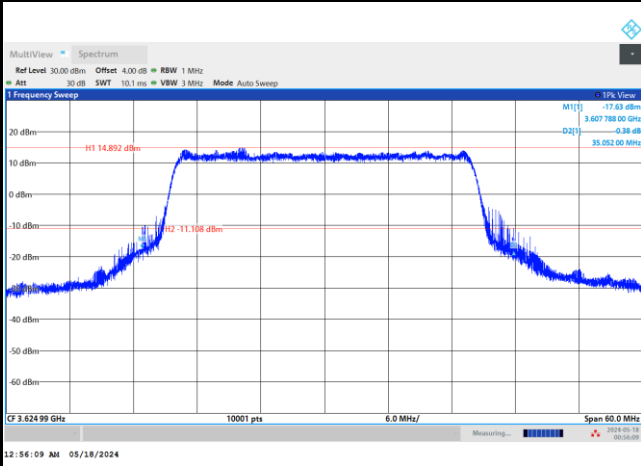




FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

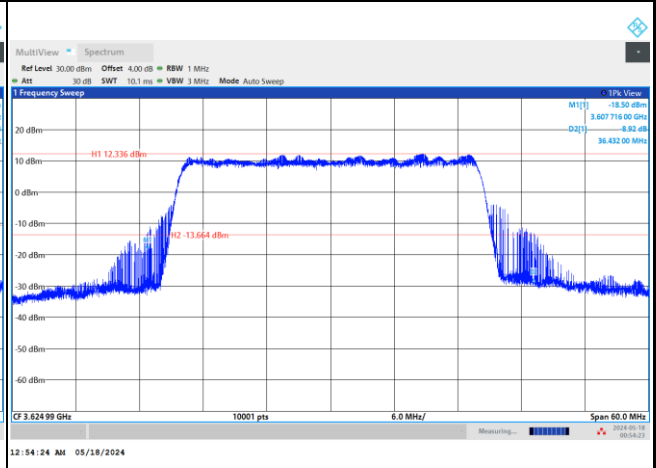
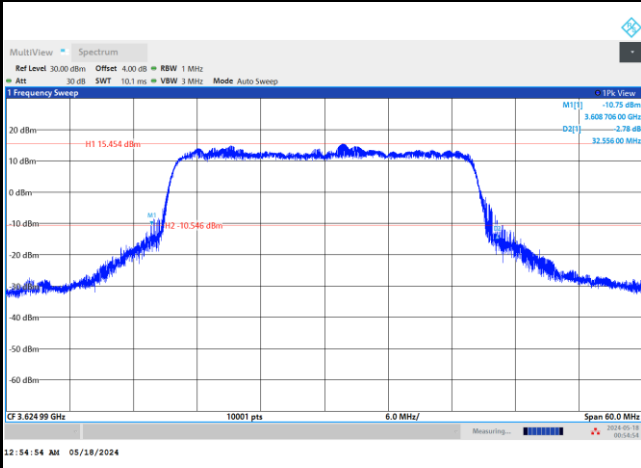
QPSK

16QAM



64QAM

256QAM

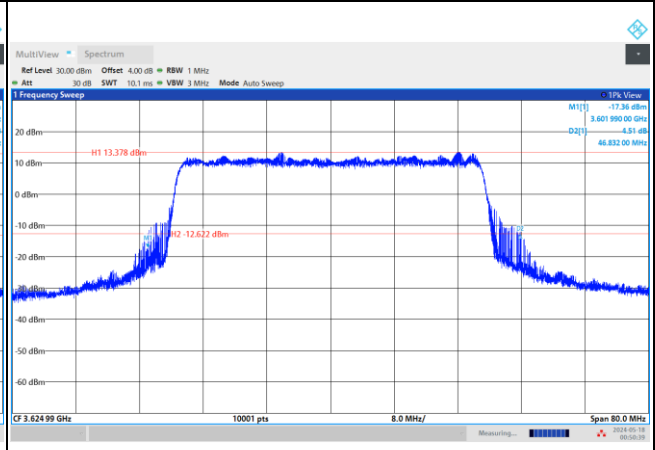
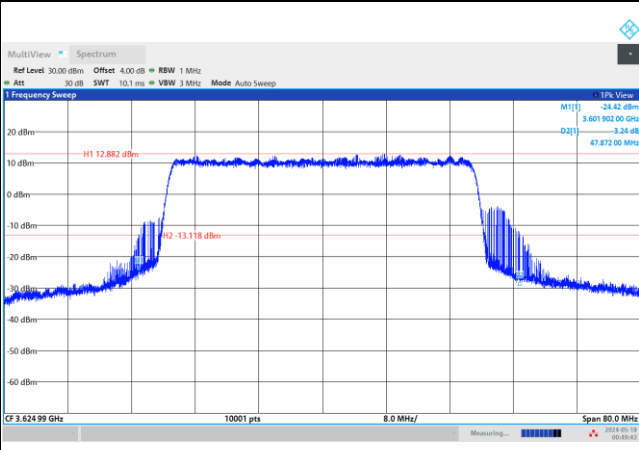




FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

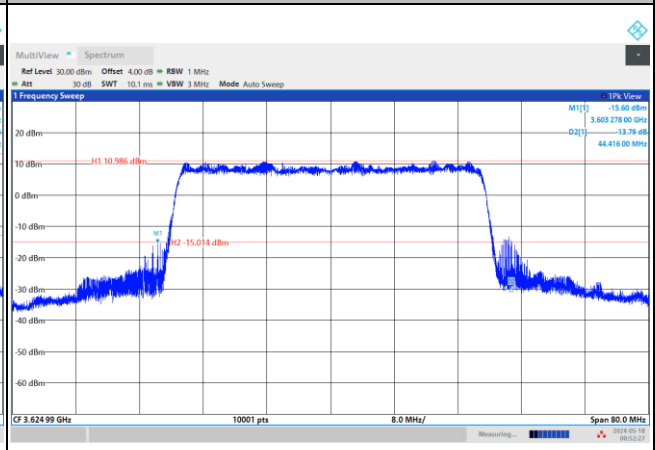
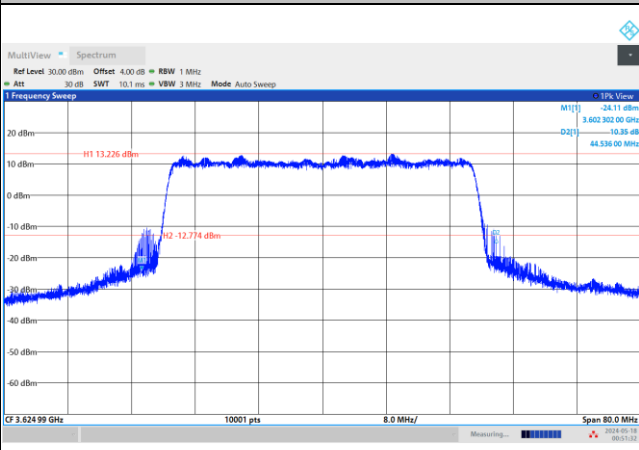
QPSK

16QAM



64QAM

256QAM





Occupied Bandwidth

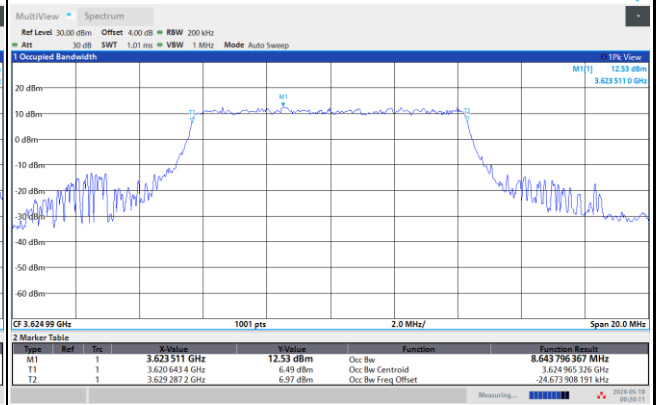
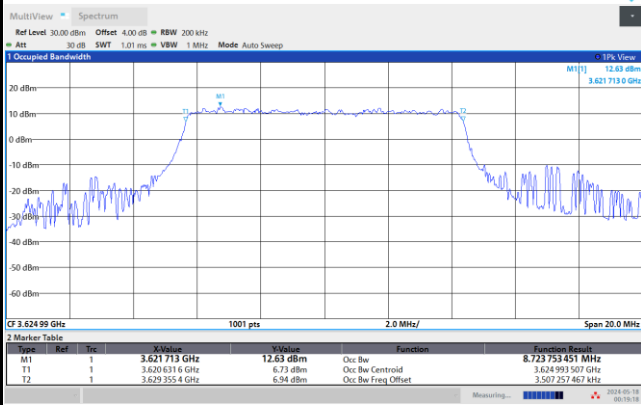
Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.72	8.64	18.41	18.45	28.14	28.15	38.23	38.14
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.67	8.69	18.43	18.42	28.17	28.20	38.07	38.11



FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

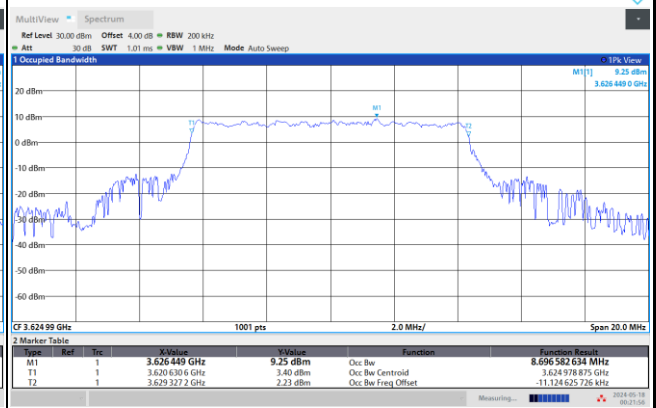
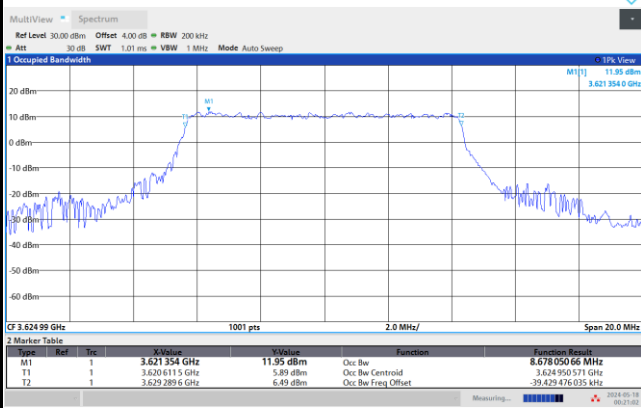
QPSK

16QAM



64QAM

256QAM

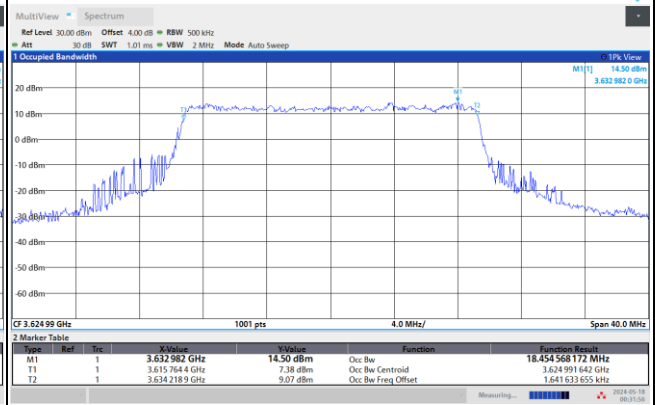
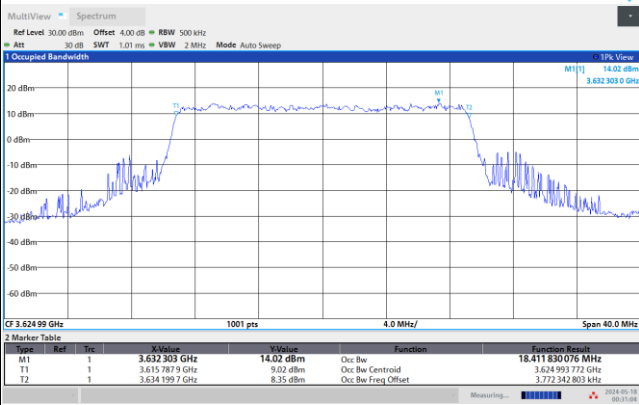




FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

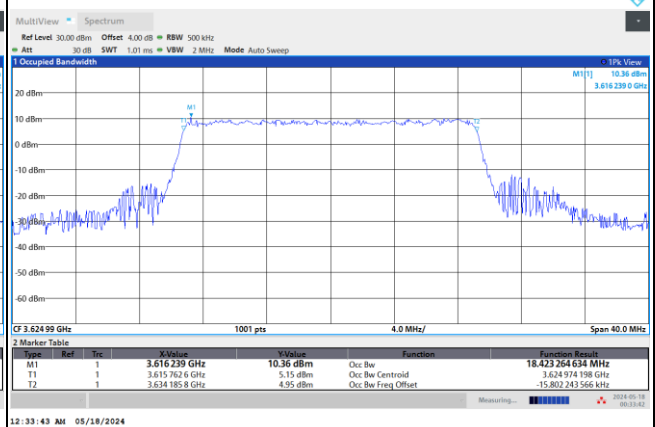
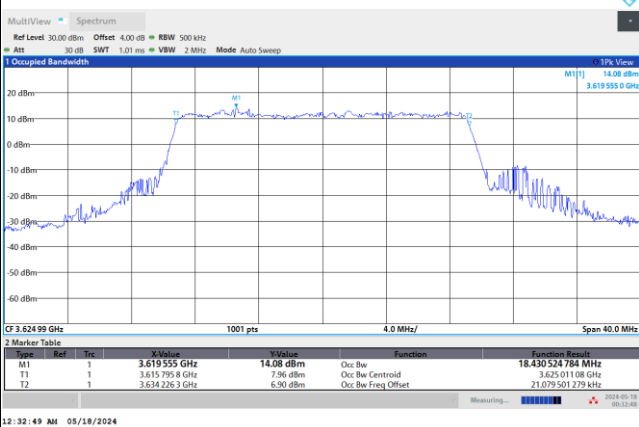
QPSK

16QAM



64QAM

256QAM

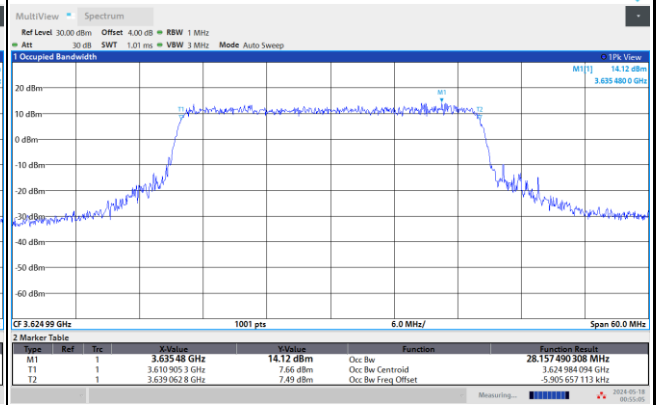
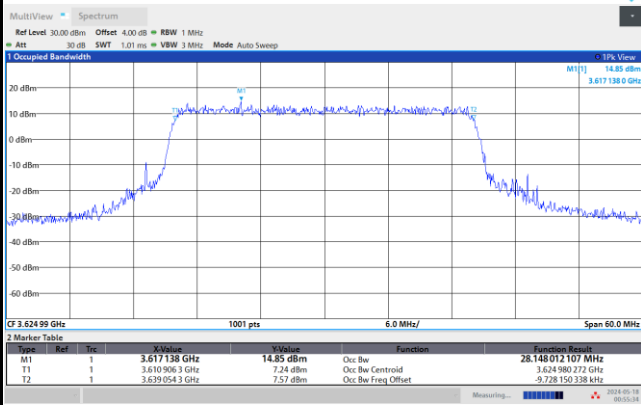




FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

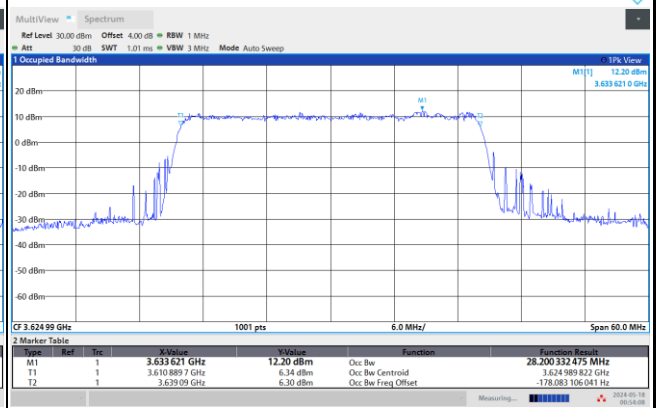
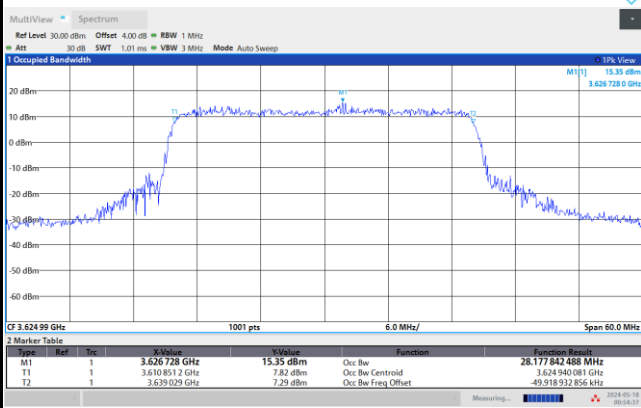
QPSK

16QAM



64QAM

256QAM

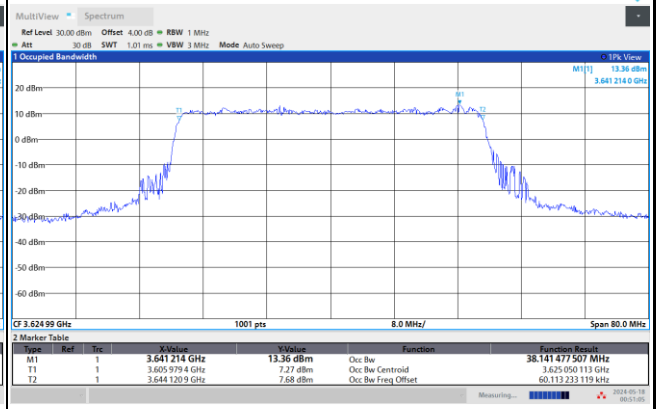
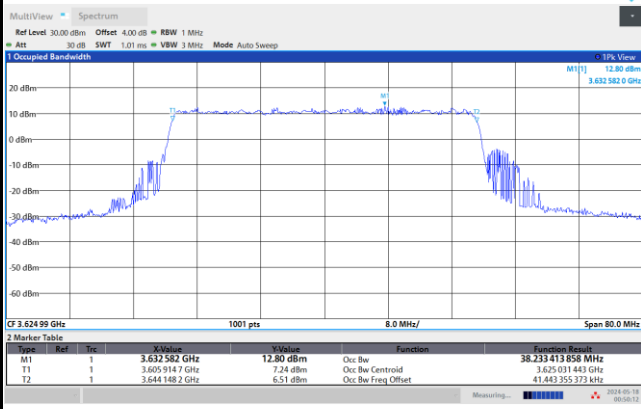




FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

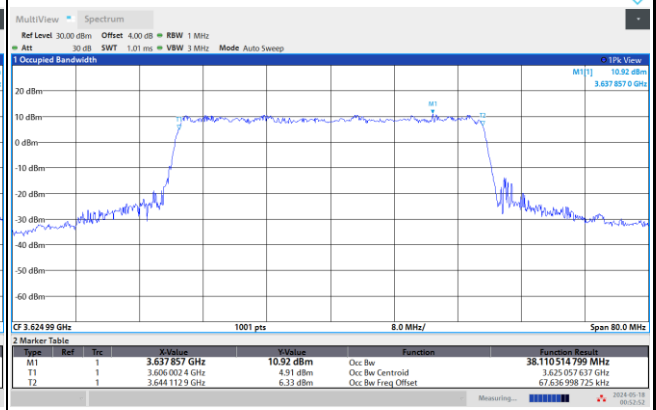
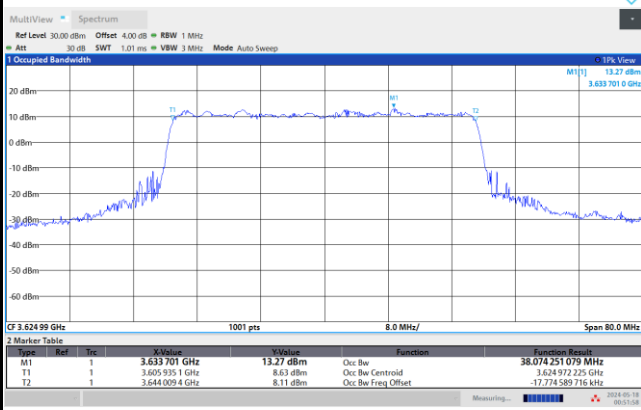
QPSK

16QAM



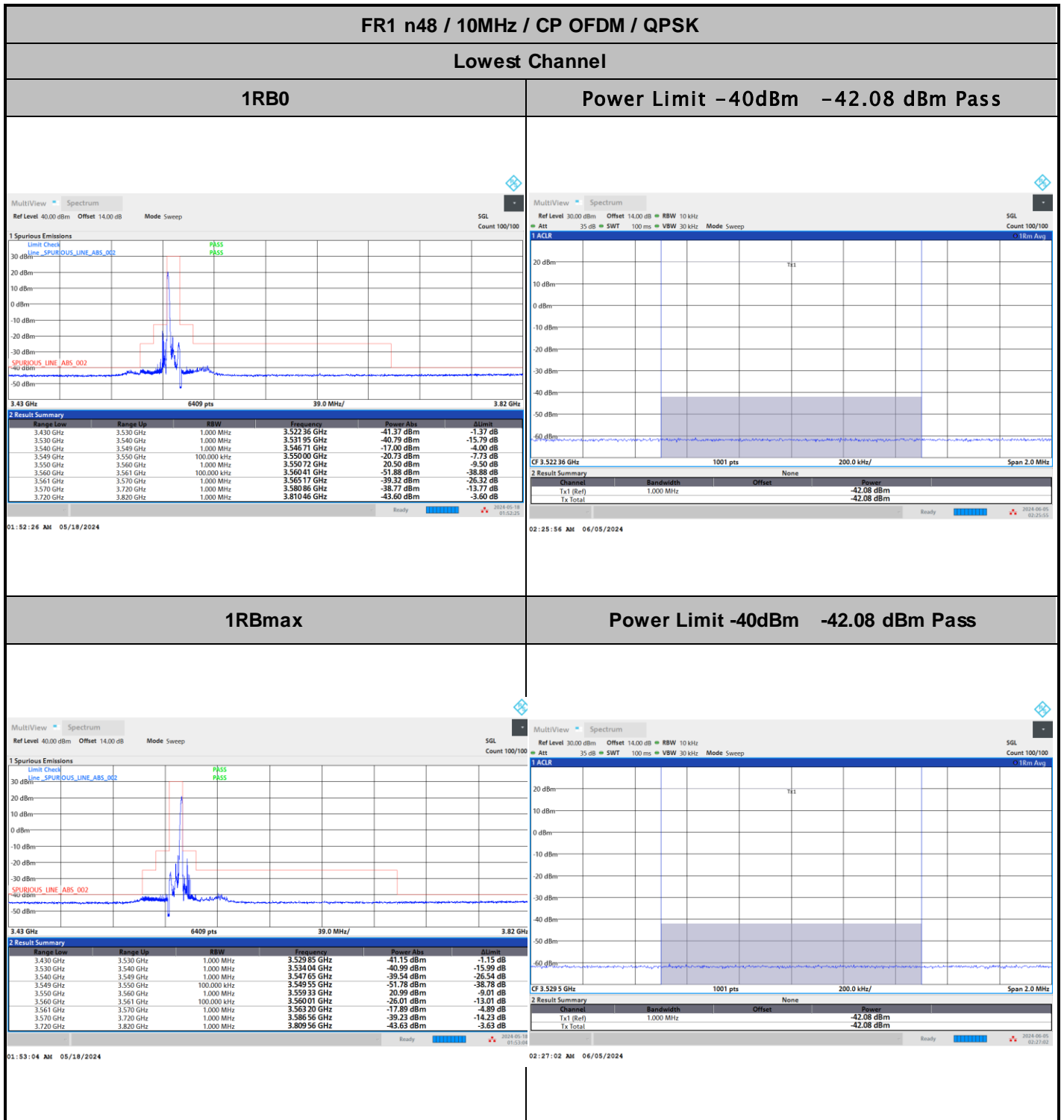
64QAM

256QAM



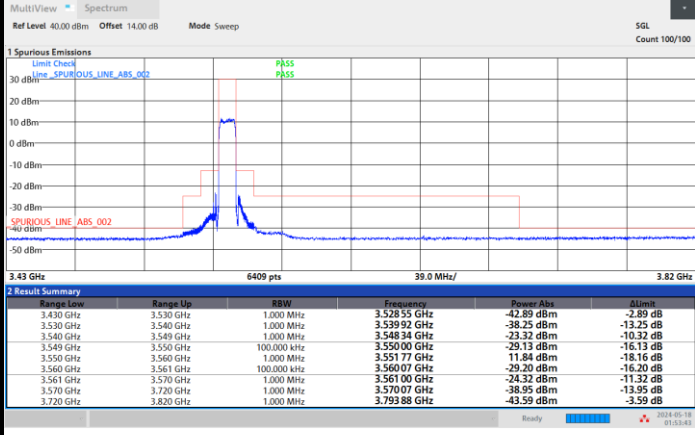


Unwanted Emission (MASK)





Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Limit
3.430 GHz	3.530 GHz	1.000 MHz	3.52855 GHz	-42.89 dBm	-2.89 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53992 GHz	-38.25 dBm	-13.25 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54834 GHz	-23.32 dBm	-10.32 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.55000 GHz	-29.13 dBm	-16.13 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.55177 GHz	11.84 dBm	-18.16 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.56007 GHz	-29.20 dBm	-16.20 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.56100 GHz	-24.32 dBm	-11.32 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.57007 GHz	-38.95 dBm	-13.95 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.79388 GHz	-43.59 dBm	-3.59 dB

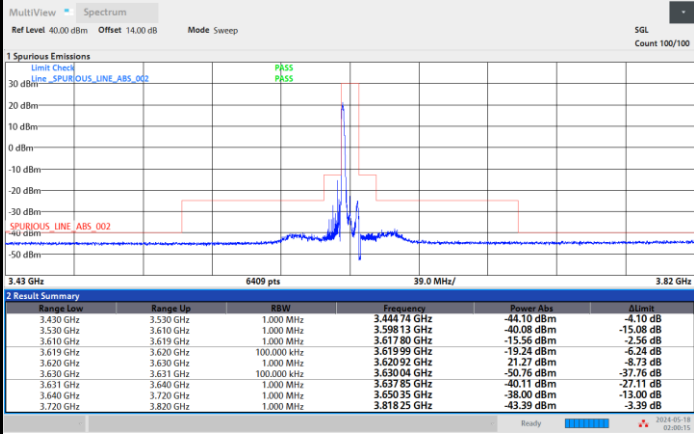
01:53:43 AM 05/18/2024



FR1 n48 / 10MHz / CP OFDM / QPSK

Middle Channel

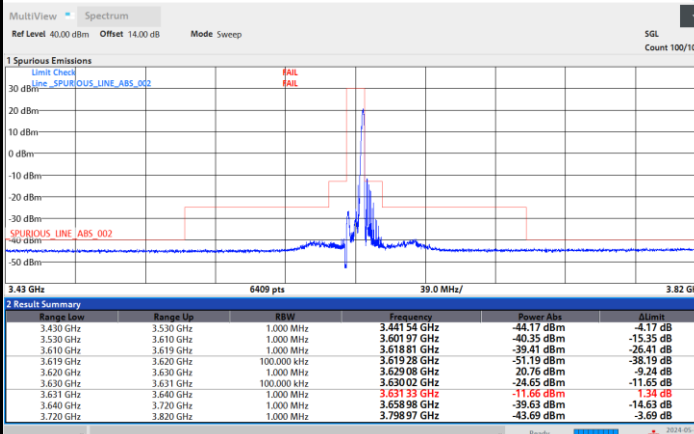
1RB0



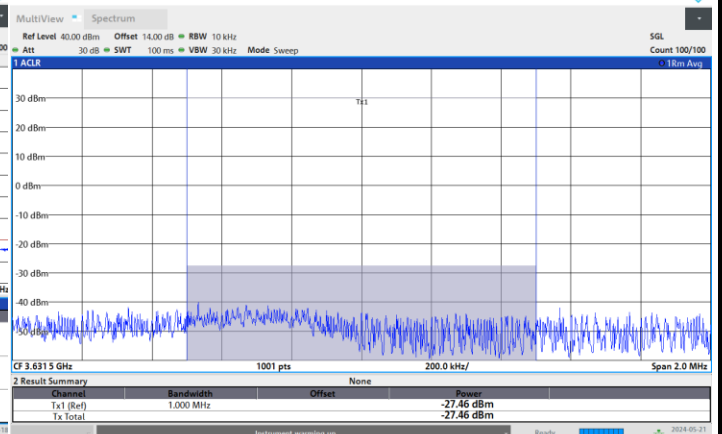
02:00:16 AM 05/18/2024

1RBmax

Power Limit -13dBm -27.46 dBm Pass



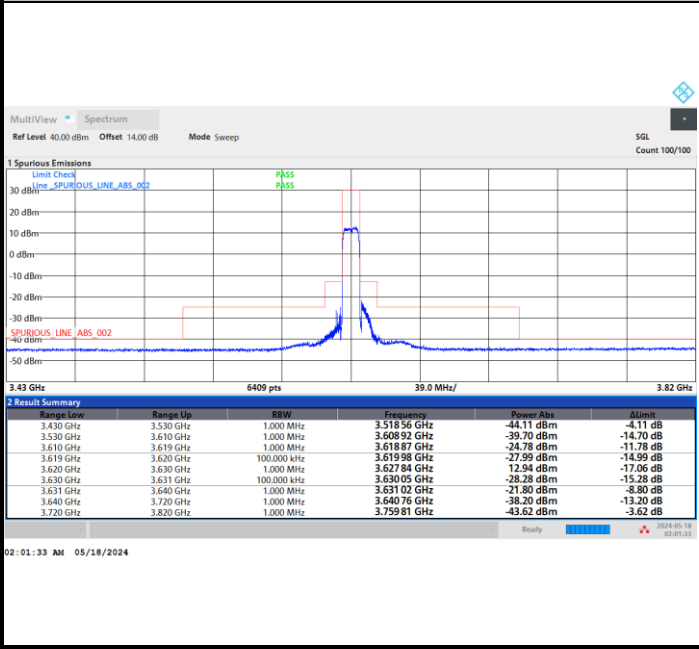
02:00:55 AM 05/18/2024



01:39:43 AM 05/21/2024



Full RB



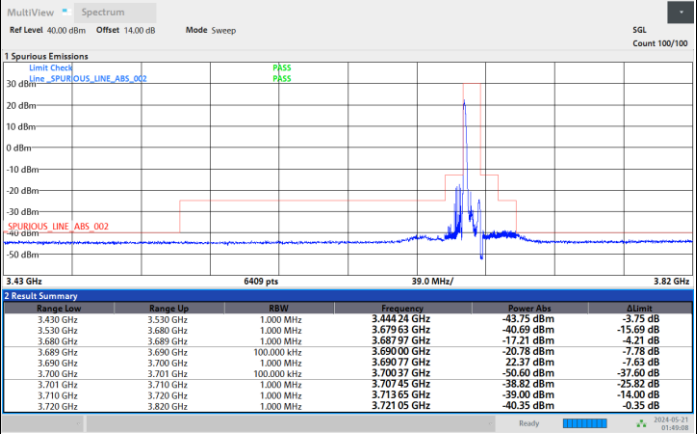


FR1 n48 / 10MHz / CP OFDM / QPSK

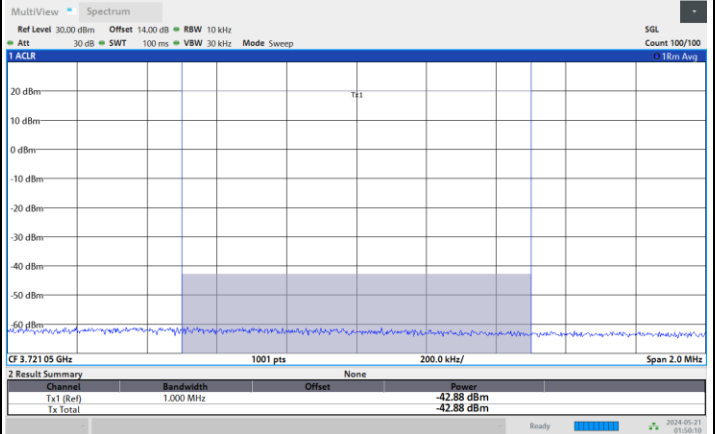
Highest Channel

1RB0

Power Limit -40dBm -42.88 dBm Pass



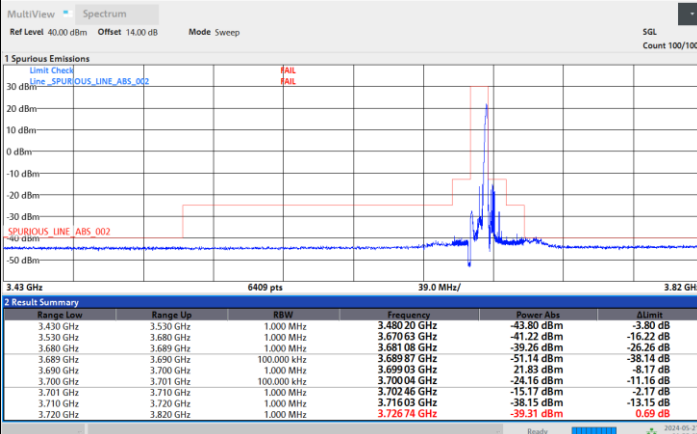
01:49:09 AM 05/21/2024



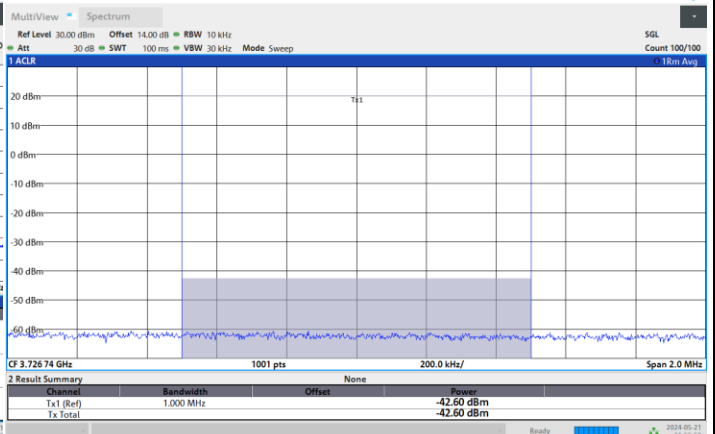
01:50:10 AM 05/21/2024

1RBmax

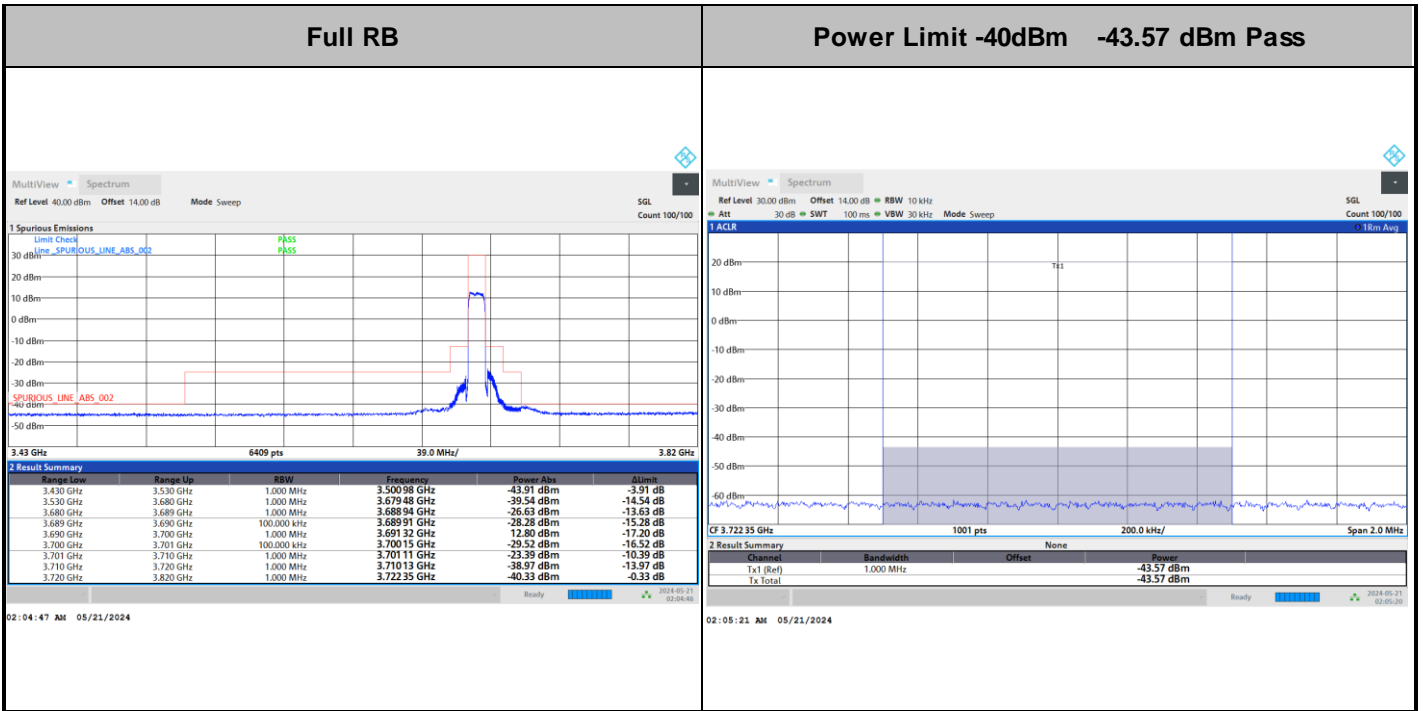
Power Limit -40dBm -42.60 dBm Pass



01:55:08 AM 05/21/2024



01:56:00 AM 05/21/2024



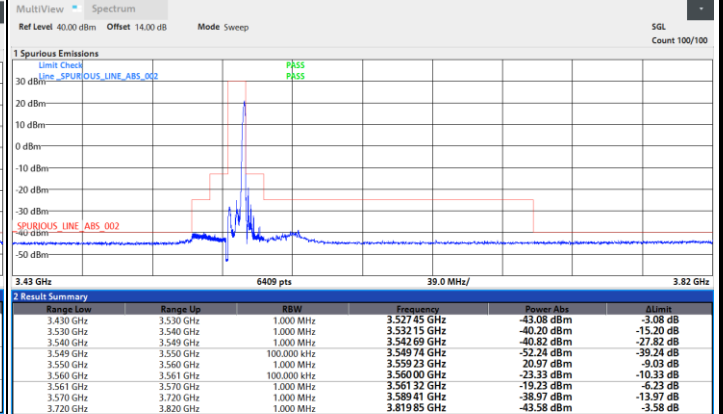
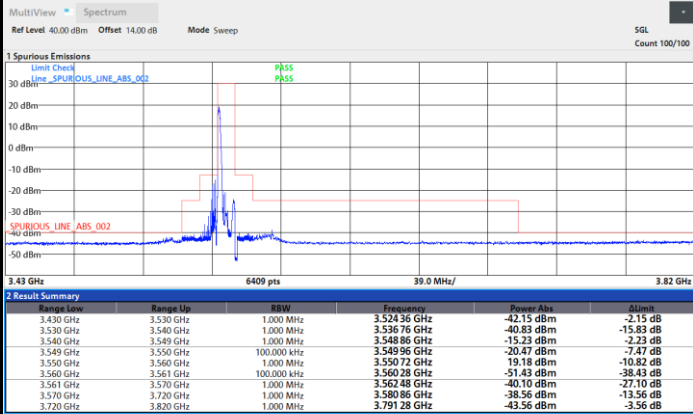


FR1 n48 / 10MHz / CP OFDM / 16QAM

Lowest Channel

1RB0

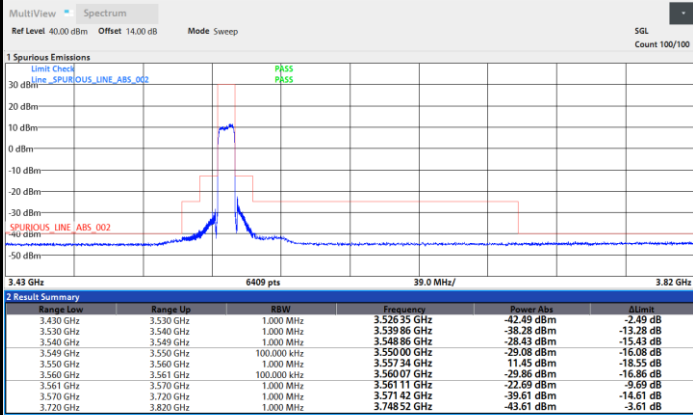
1RBmax



01:54:23 AM 05/18/2024

01:55:02 AM 05/18/2024

Full RB



01:55:40 AM 05/18/2024

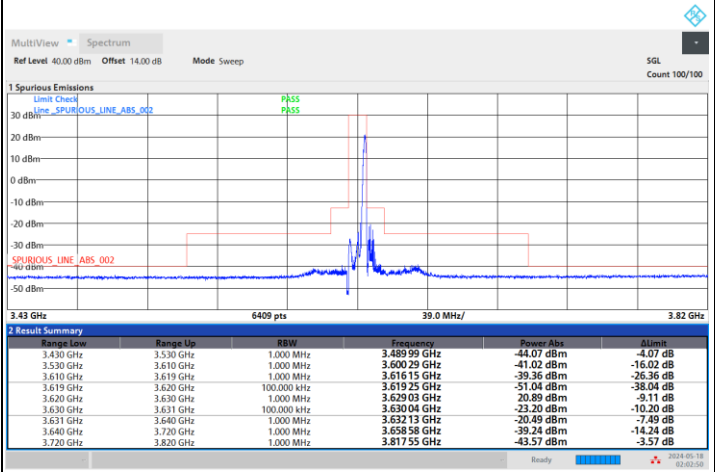
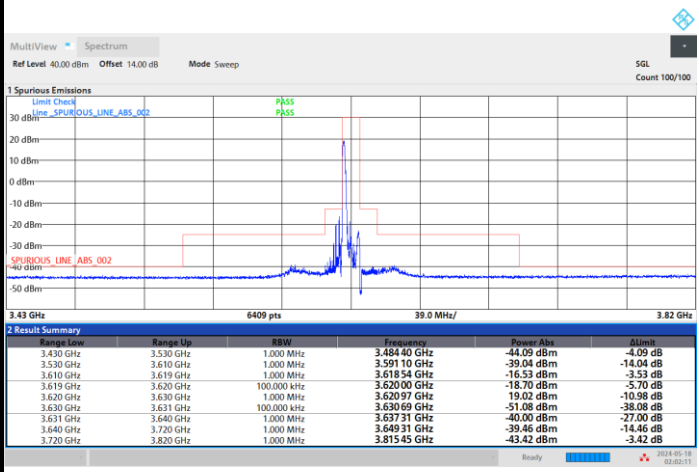


FR1 n48 / 10MHz / CP OFDM / 16QAM

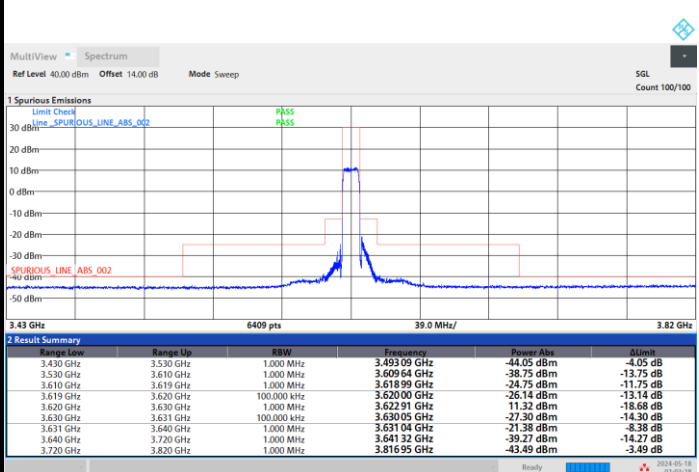
Middle Channel

1RB0

1RBmax



Full RB

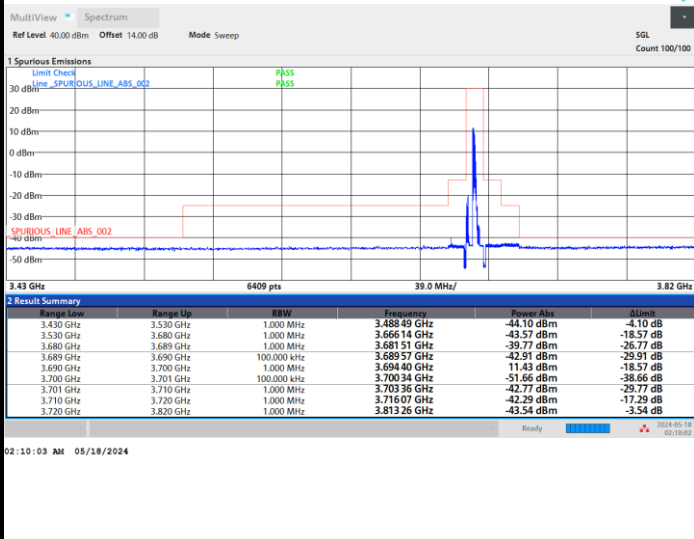




FR1 n48 / 10MHz / CP OFDM / 16QAM

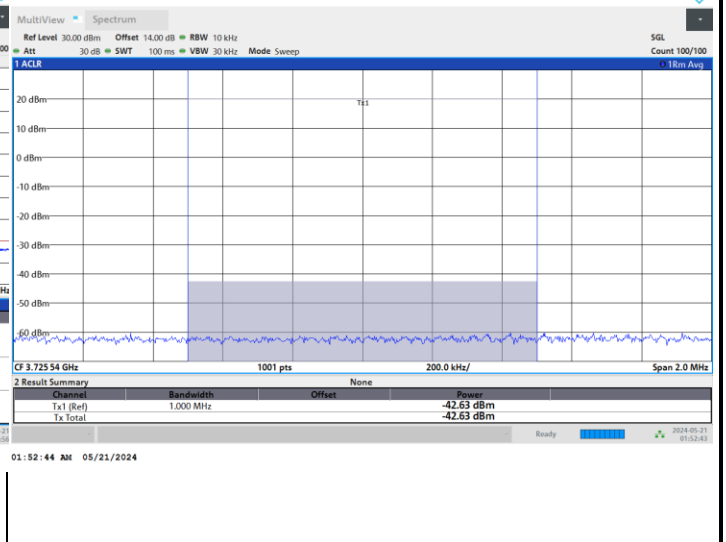
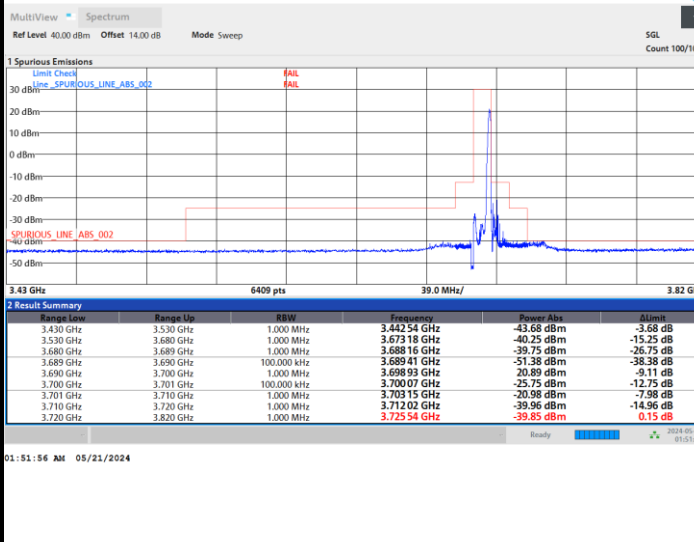
Highest Channel

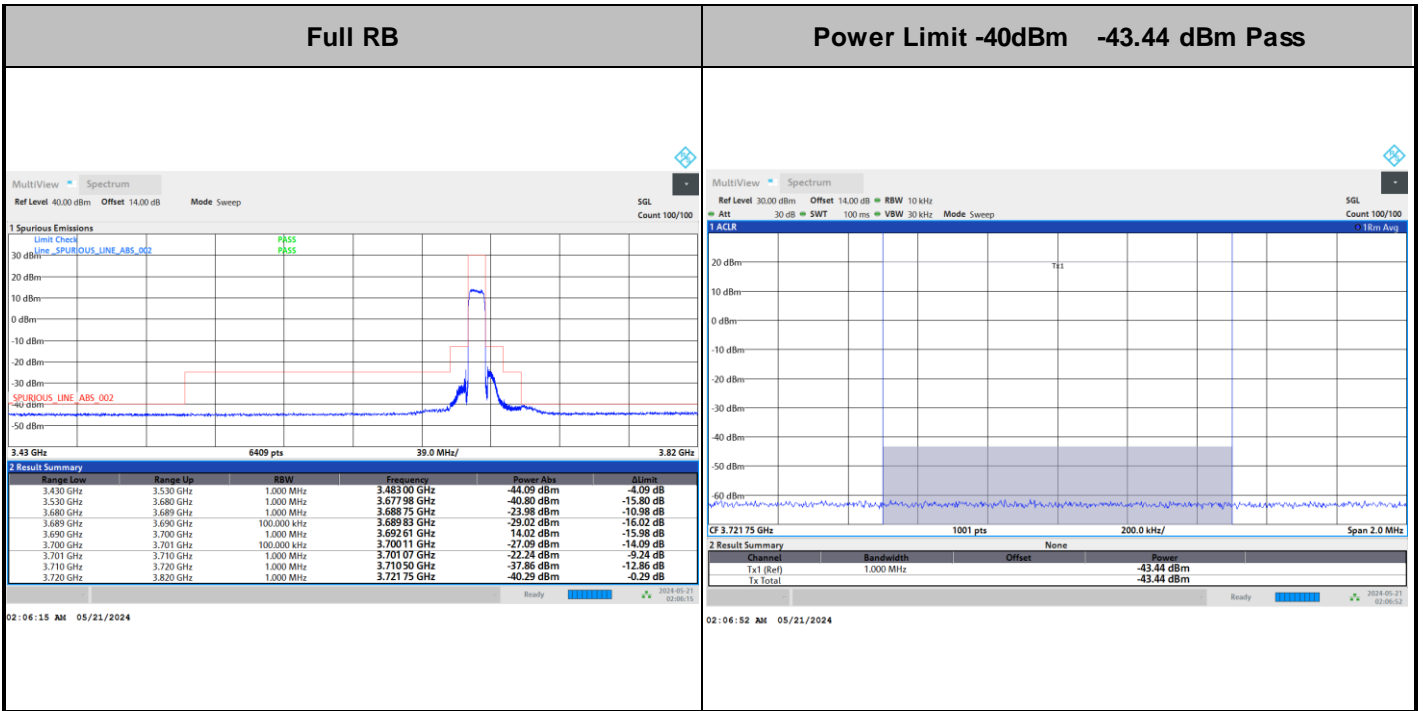
1RB0



1RBmax

Power Limit -40dBm -42.63 dBm Pass





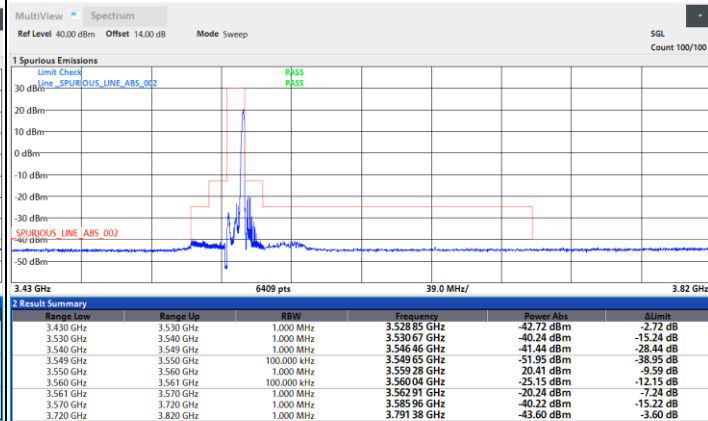
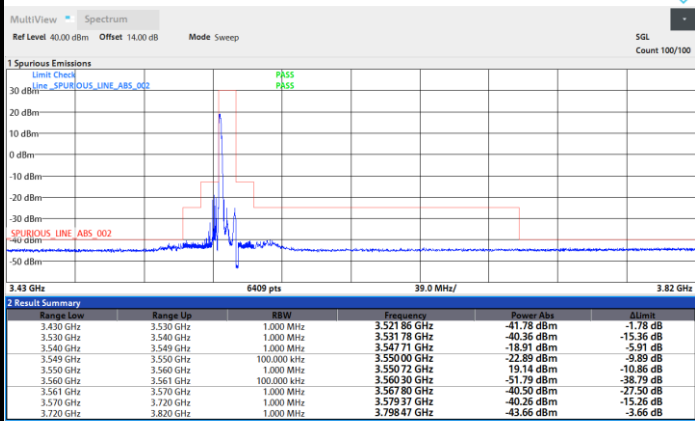


FR1 n48 / 10MHz / CP OFDM / 64QAM

Lowest Channel

1RB0

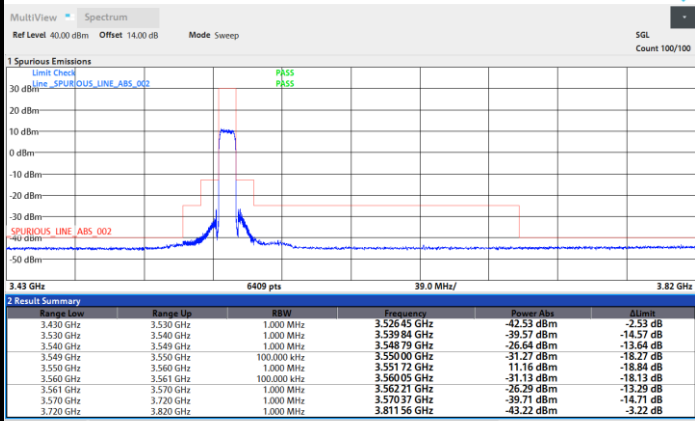
1RBmax



01:56:19 AM 05/18/2024

01:56:57 AM 05/18/2024

Full RB



01:57:36 AM 05/18/2024

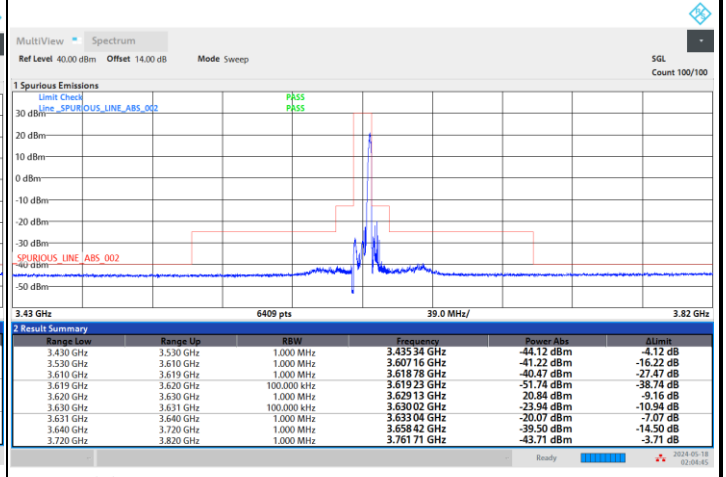
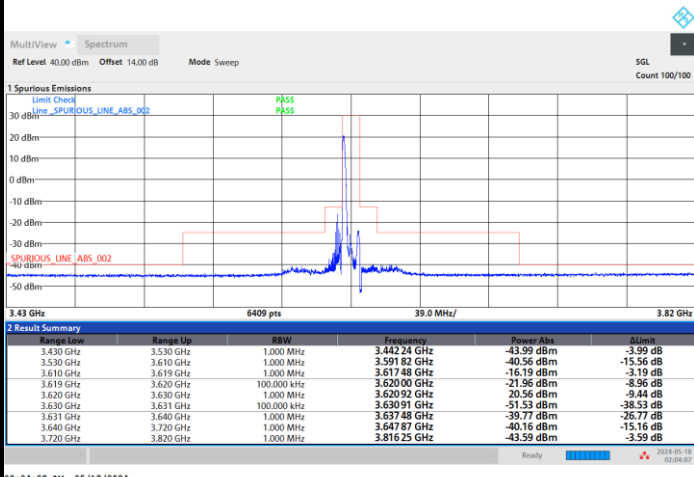


FR1 n48 / 10MHz / CP OFDM / 64QAM

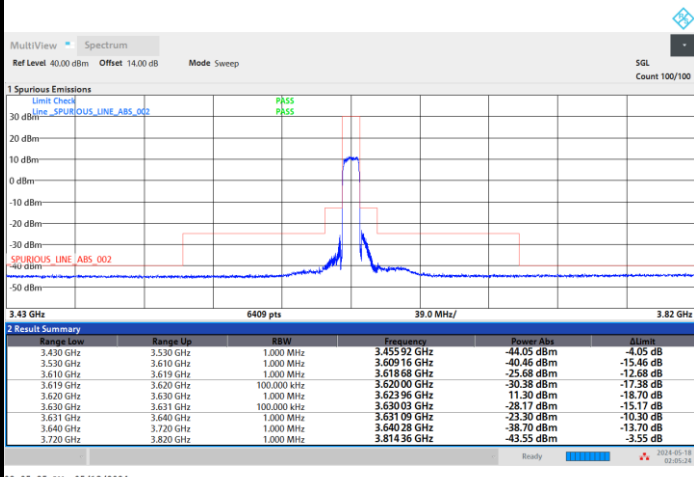
Middle Channel

1RB0

1RBmax



Full RB

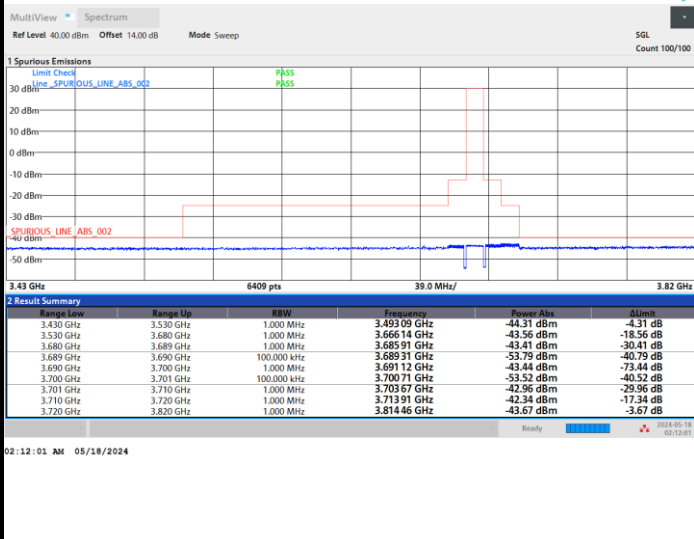




FR1 n48 / 10MHz / CP OFDM / 64QAM

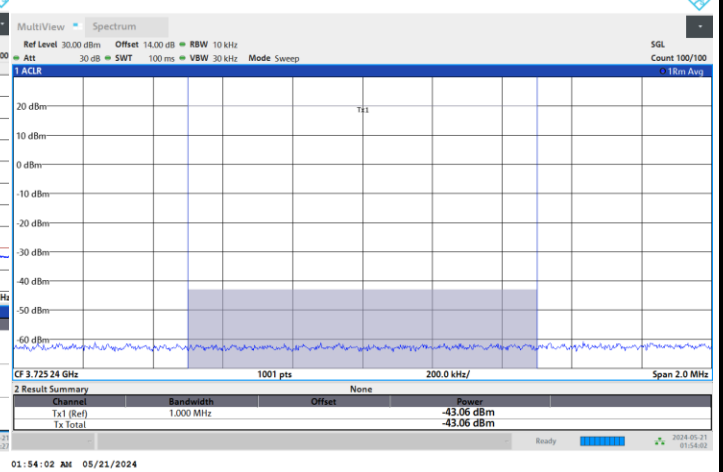
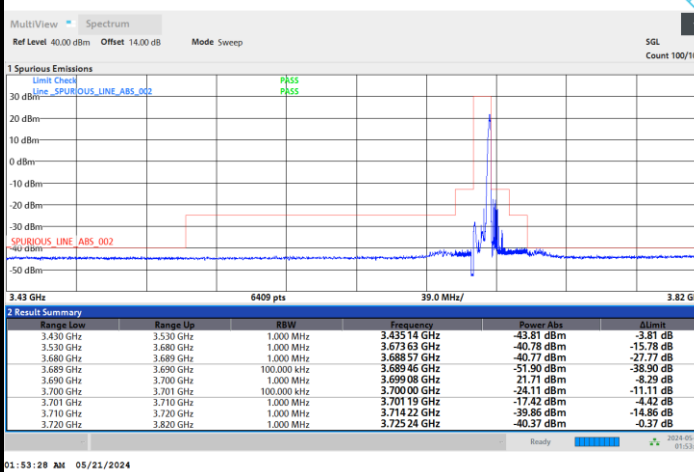
Highest Channel

1RB0



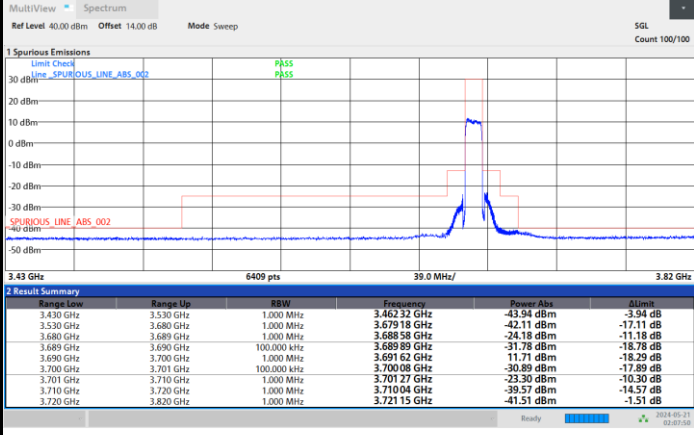
1RBmax

Power Limit -40dBm -43.06 dBm Pass





Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	dUnit
3.430 GHz	3.530 GHz	1.000 MHz	3.462 32 GHz	-43.94 dBm	-3.94 dB
3.530 GHz	3.680 GHz	1.000 MHz	3.679 18 GHz	-42.11 dBm	-17.11 dB
3.680 GHz	3.680 GHz	1.000 MHz	3.688 58 GHz	-24.18 dBm	-11.18 dB
3.680 GHz	3.690 GHz	100.000 kHz	3.689 89 GHz	-31.78 dBm	-18.78 dB
3.690 GHz	3.700 GHz	1.000 MHz	3.691 62 GHz	11.71 dBm	-18.29 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.700 08 GHz	-30.89 dBm	-17.89 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 27 GHz	-23.30 dBm	-10.30 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 04 GHz	-39.57 dBm	-14.57 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.721 15 GHz	-41.51 dBm	-1.51 dB

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