

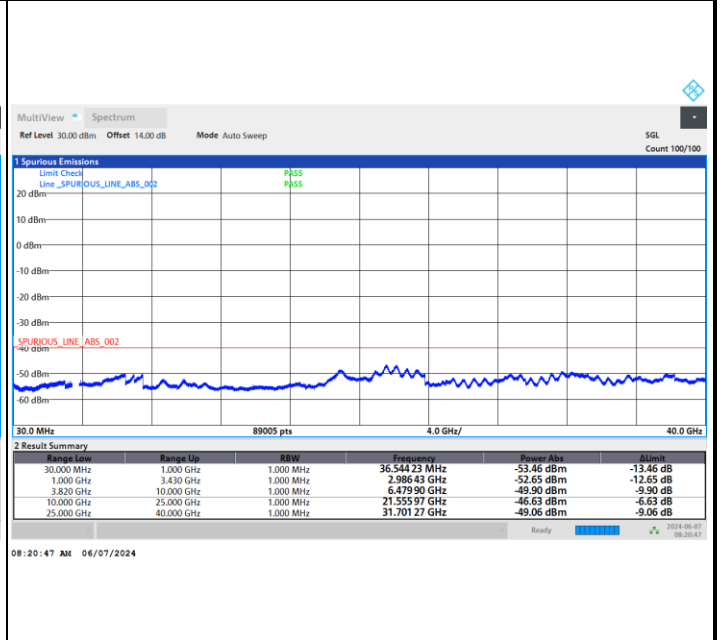
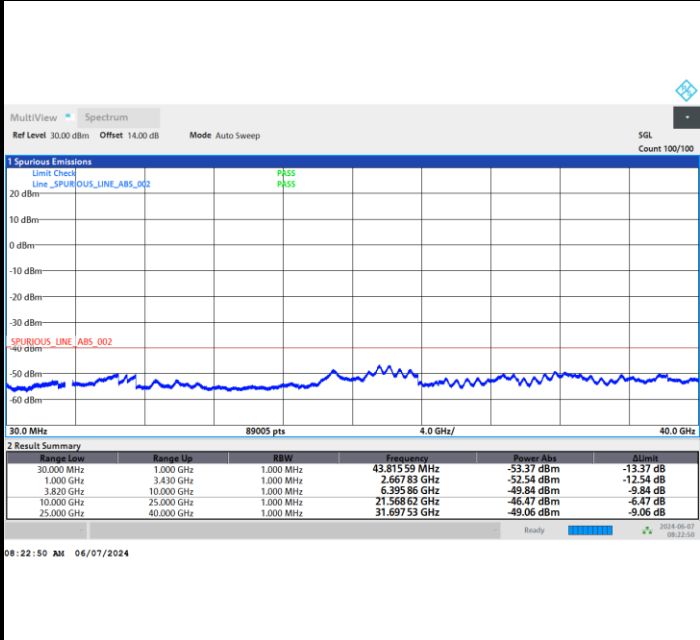


Conducted Spurious Emission

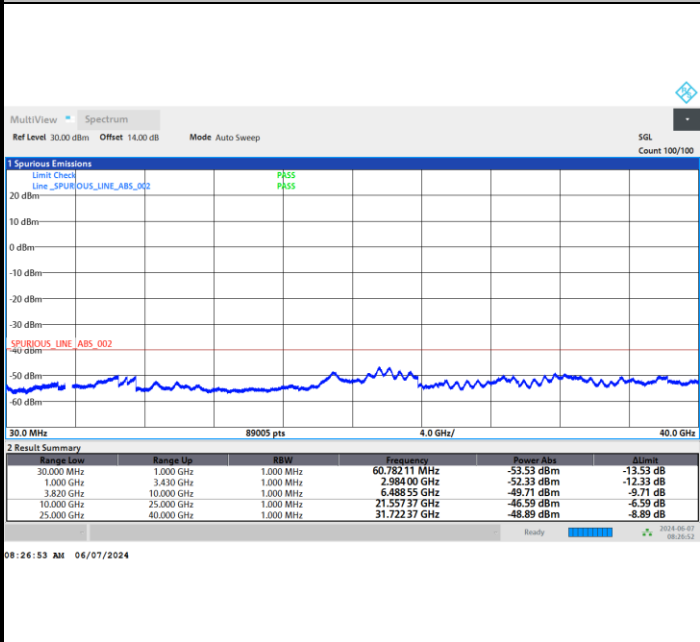
FR1 n48 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel

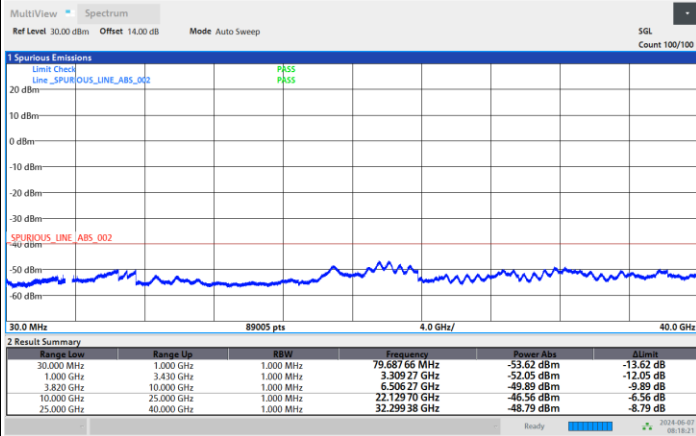
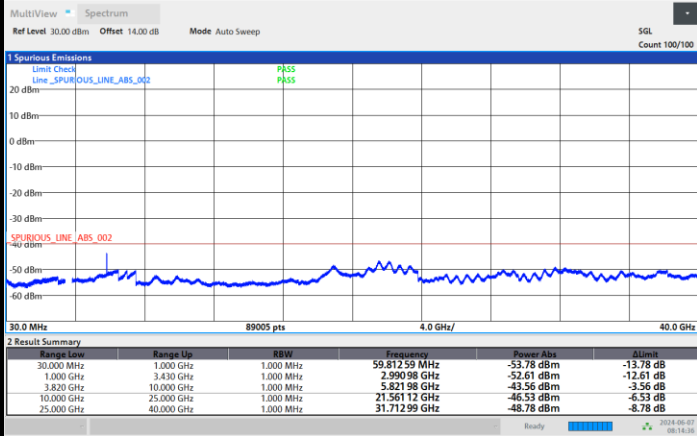




FR1 n48 / 20MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

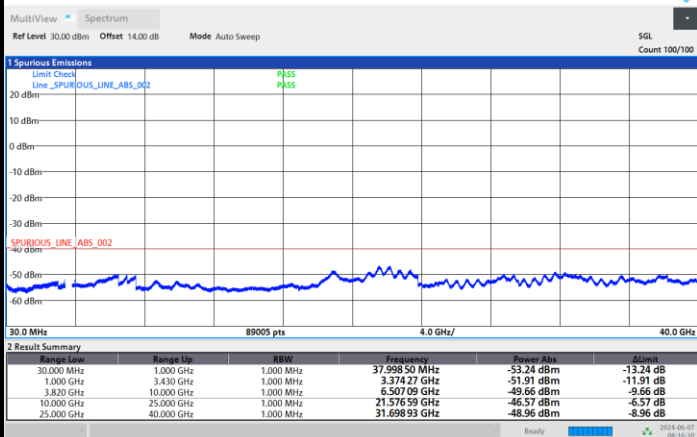
Middle Channel



08:14:36 AM 06/07/2024

08:18:22 AM 06/07/2024

Highest Channel



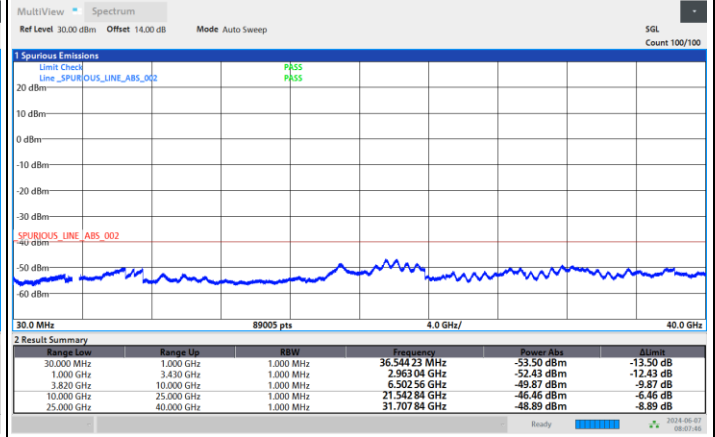
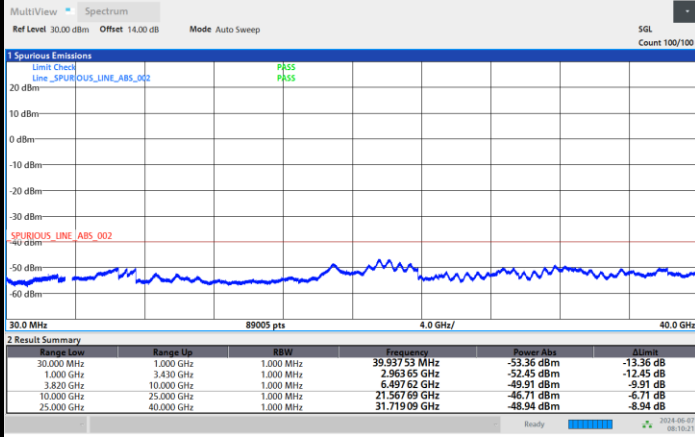
08:16:31 AM 06/07/2024



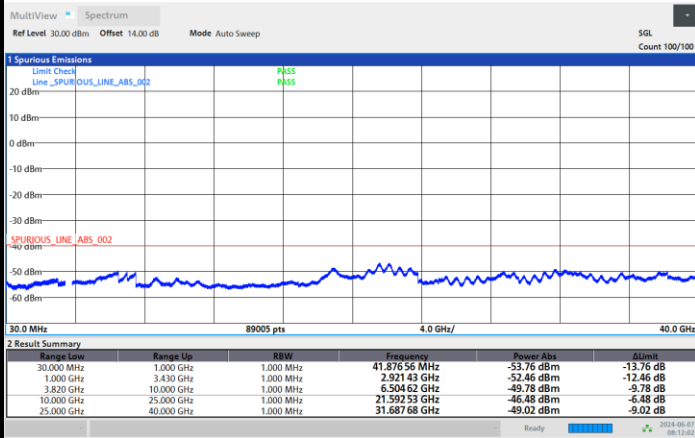
FR1 n48 / 30MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel

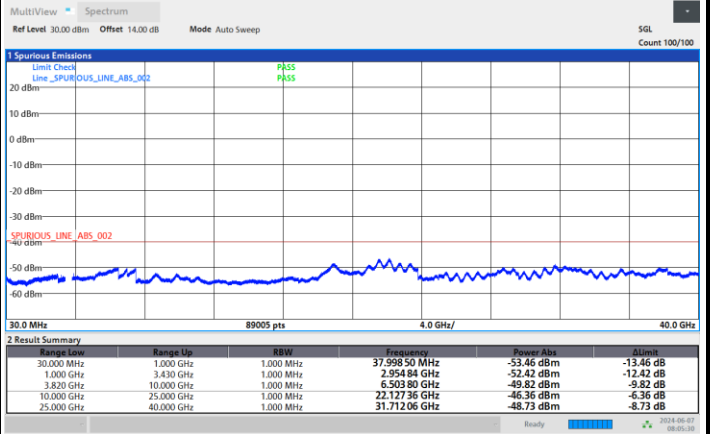
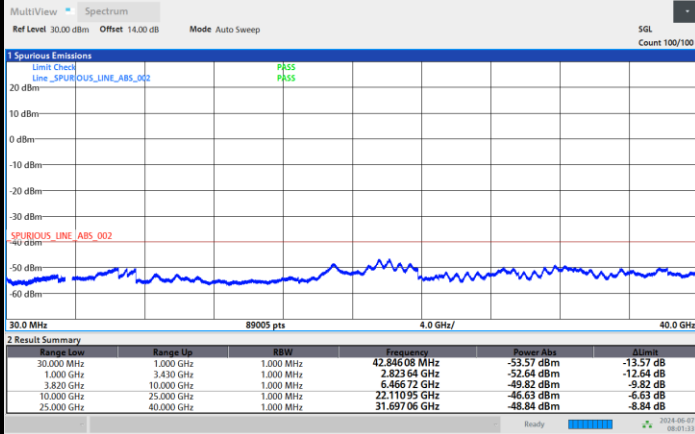




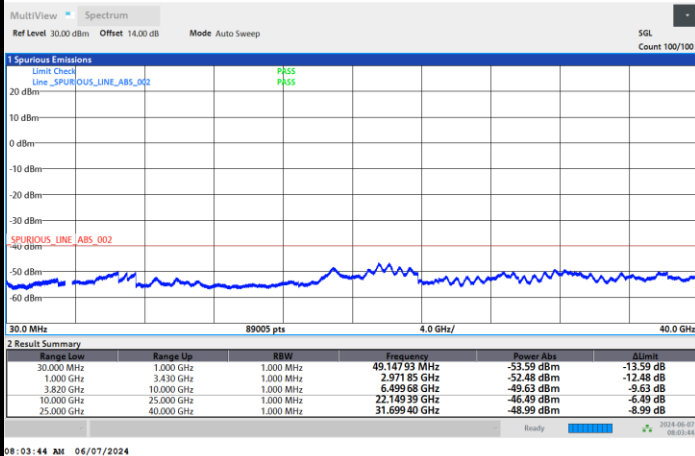
FR1 n48 / 40MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0040	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

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.

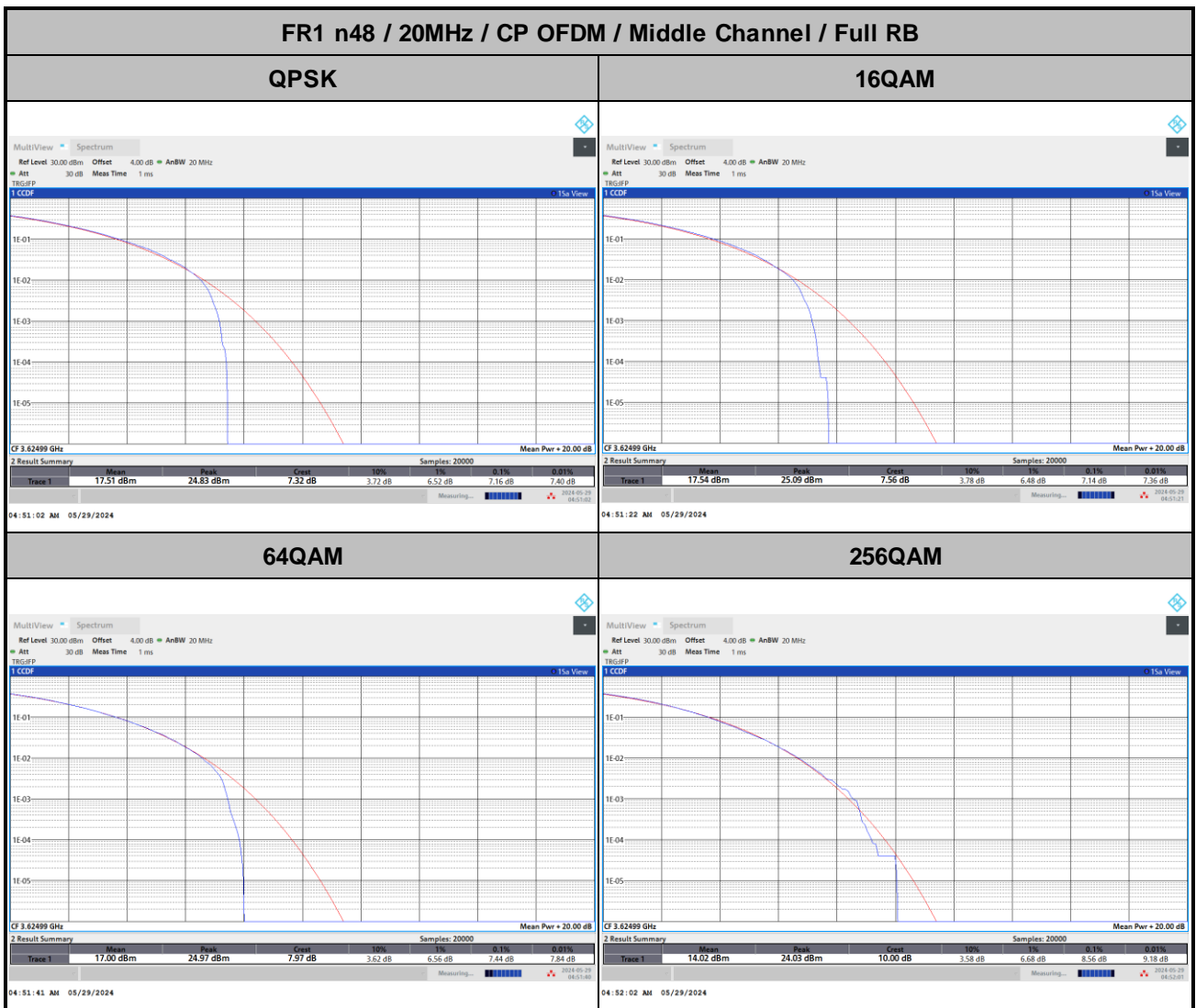


<MIMO Mode>

MIMO <Ant. 7>

Peak-to-Average Ratio

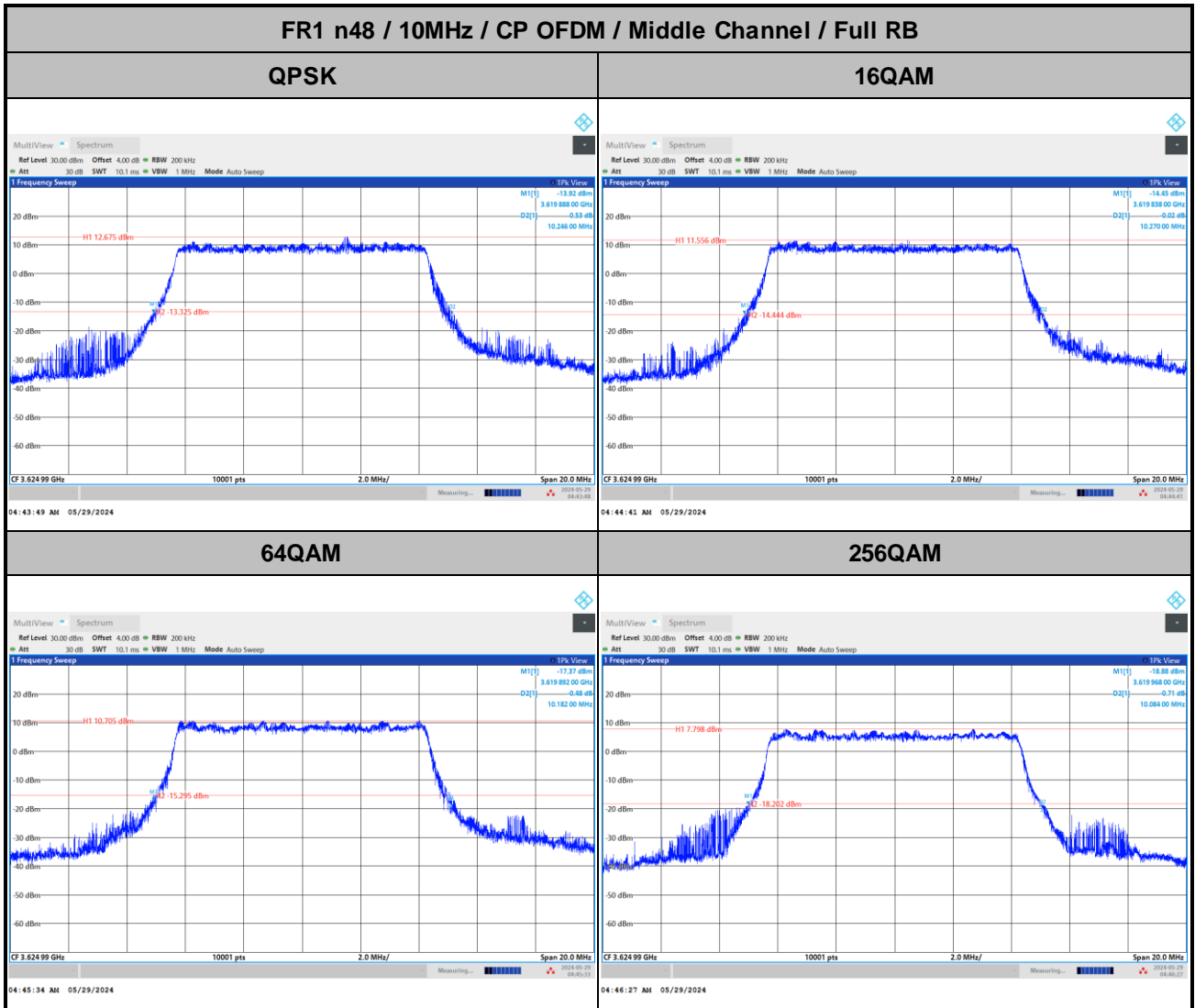
Mode	FR1 n48 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.16	7.14	7.44	8.56	PASS





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	10.25	10.27	21.66	20.62	32.00	33.44	40.98	41.46
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.18	10.08	21.04	21.79	32.19	32.18	41.98	41.54

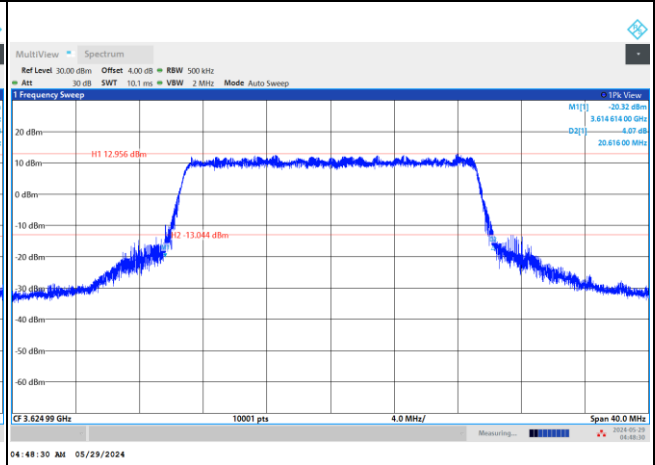
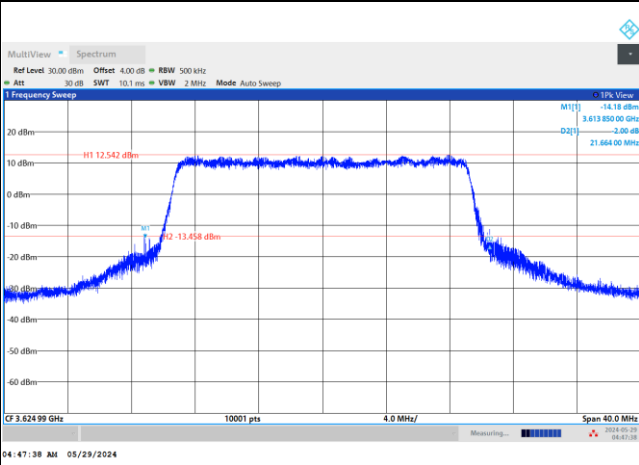




FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

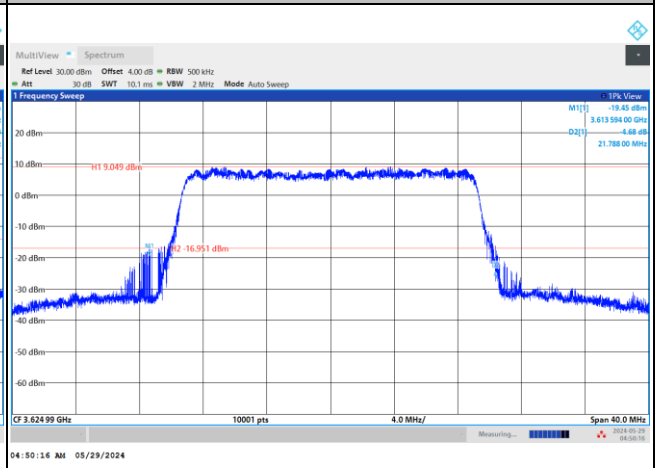
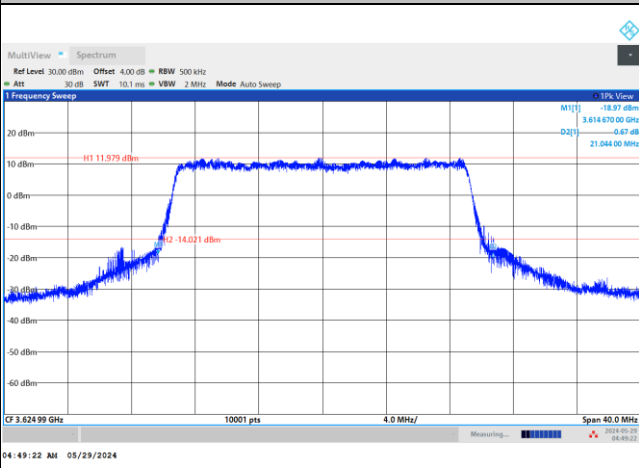
QPSK

16QAM



64QAM

256QAM

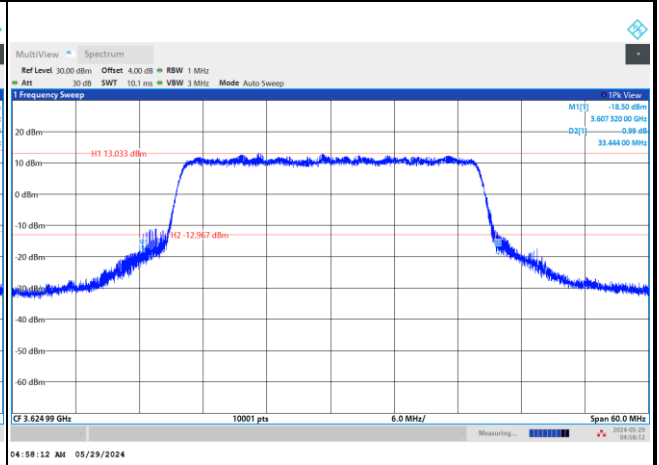
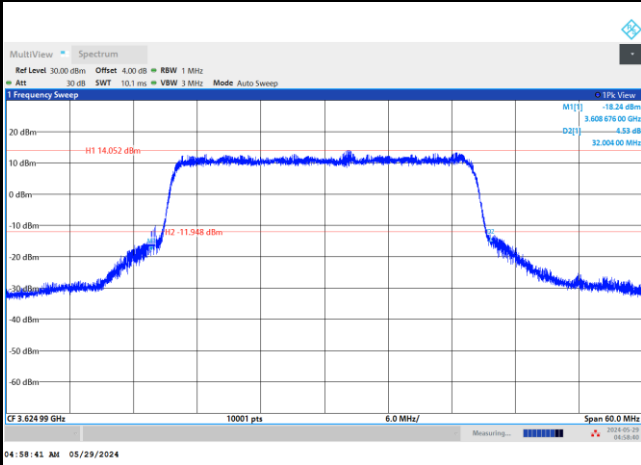




FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

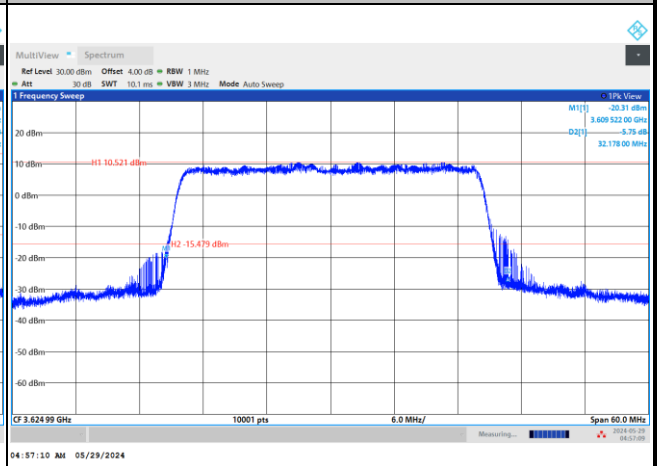
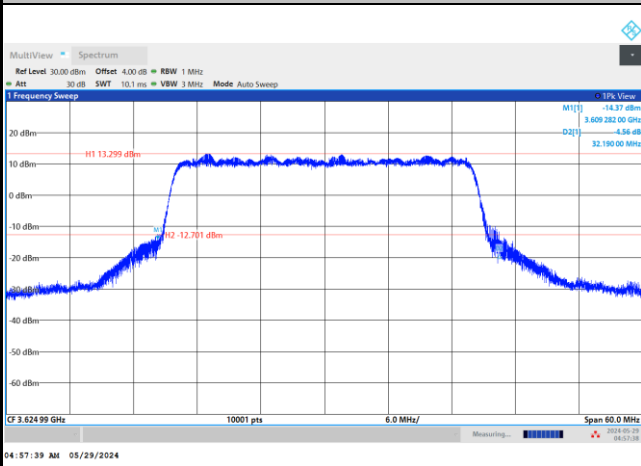
QPSK

16QAM



64QAM

256QAM

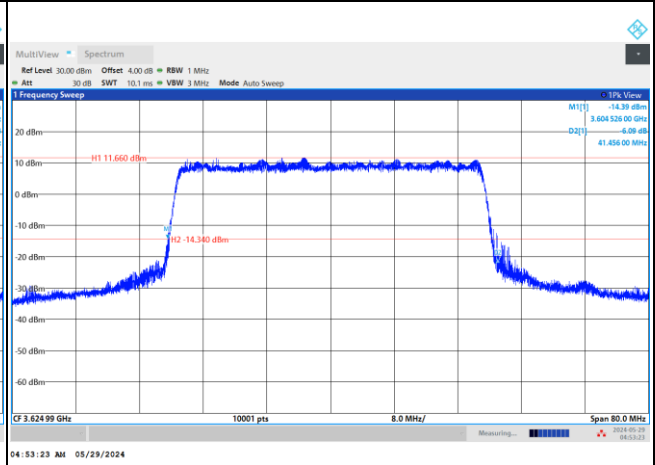
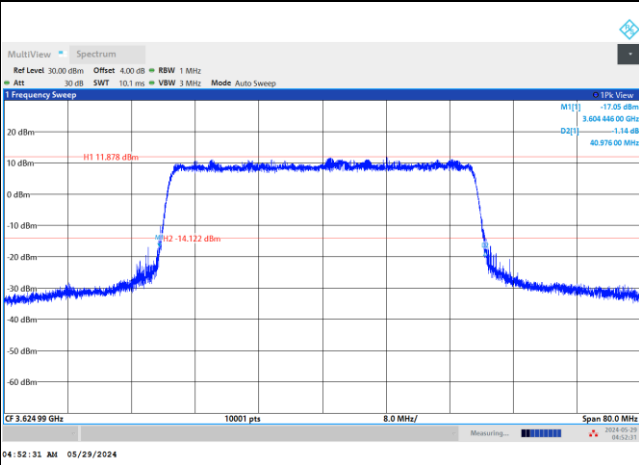




FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

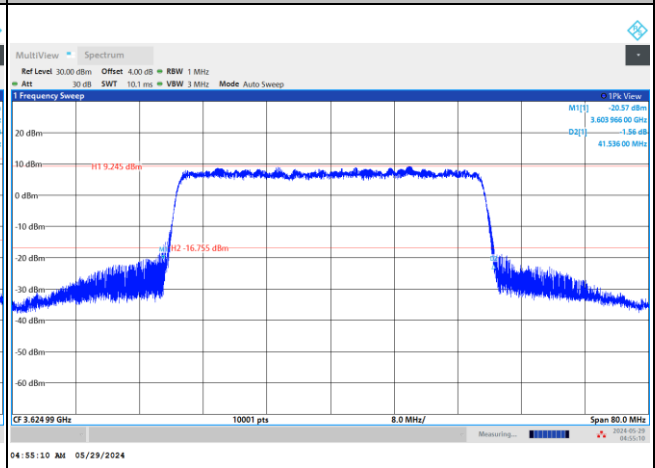
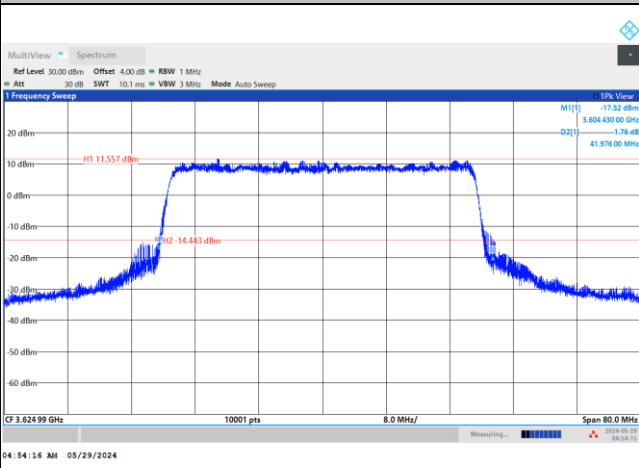
QPSK

16QAM



64QAM

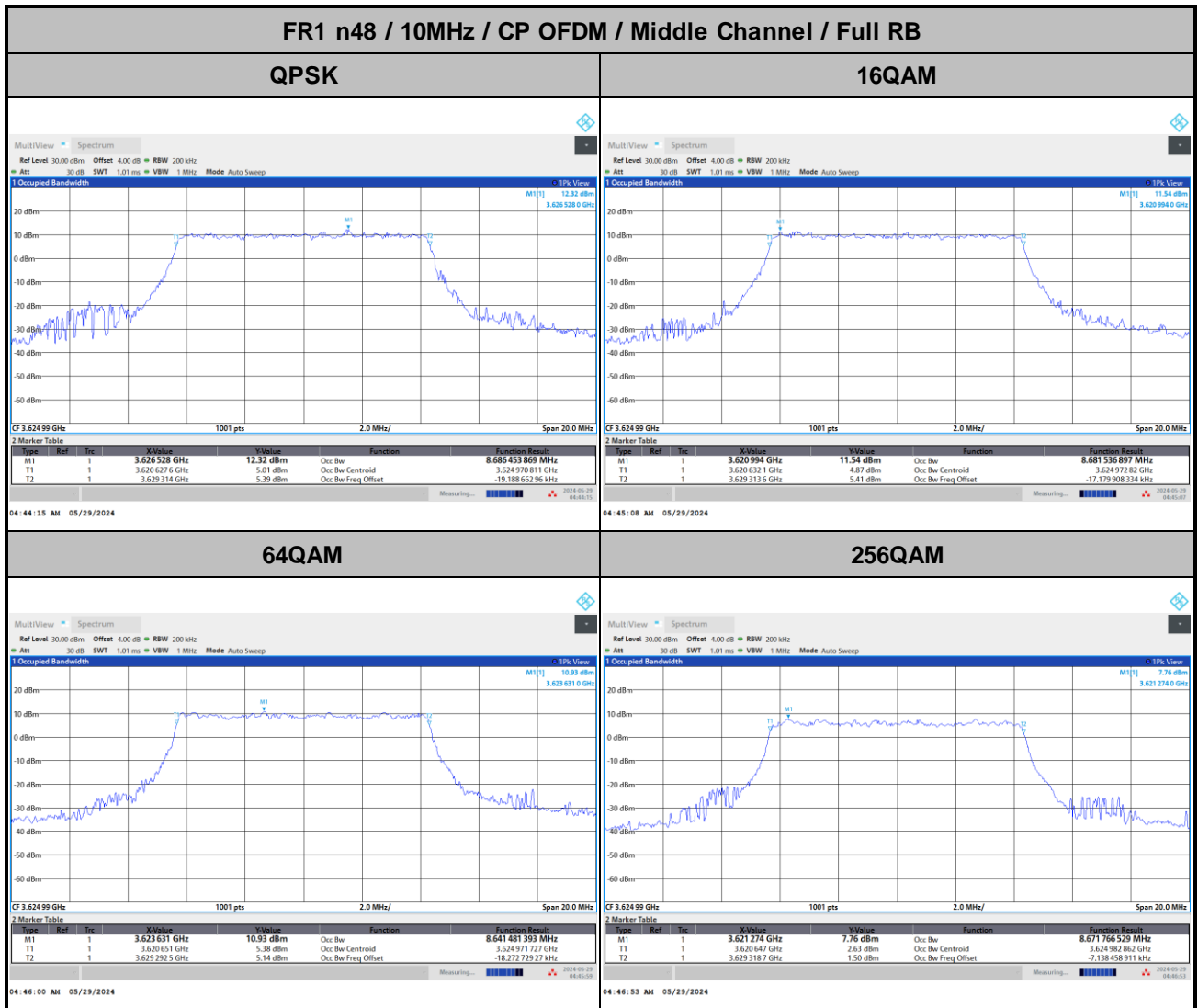
256QAM





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	8.68	8.68	18.39	18.43	28.19	28.16	38.06	38.17
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.64	8.67	18.38	18.32	28.19	28.21	38.06	38.06

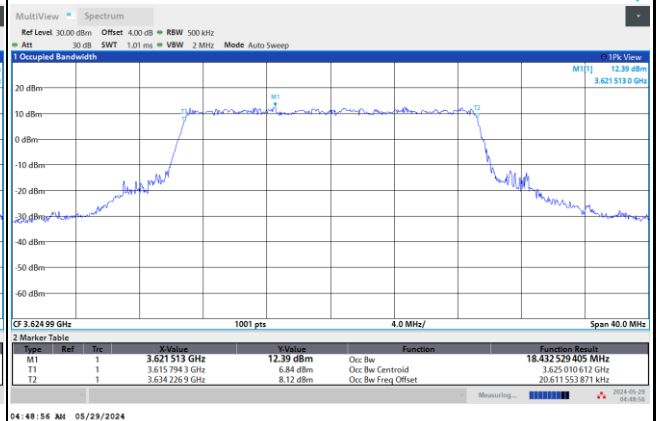
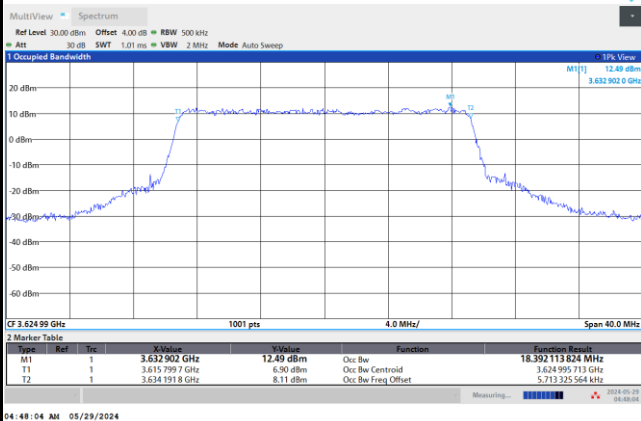




FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

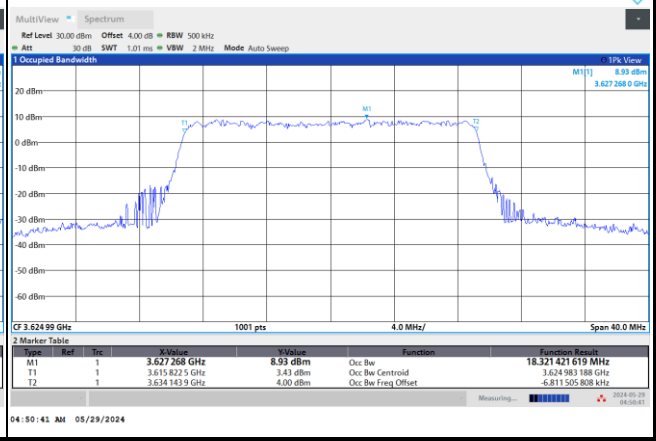
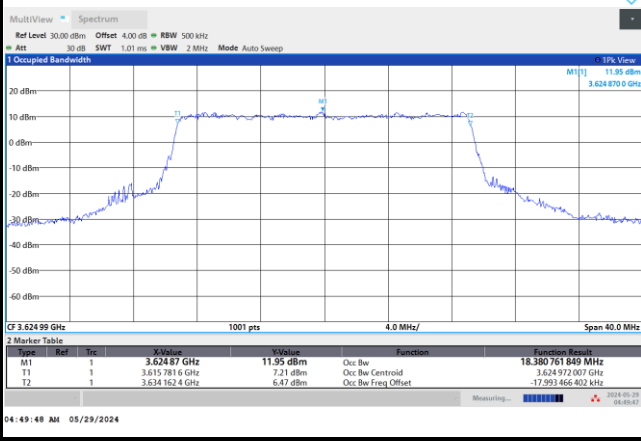
QPSK

16QAM



64QAM

256QAM

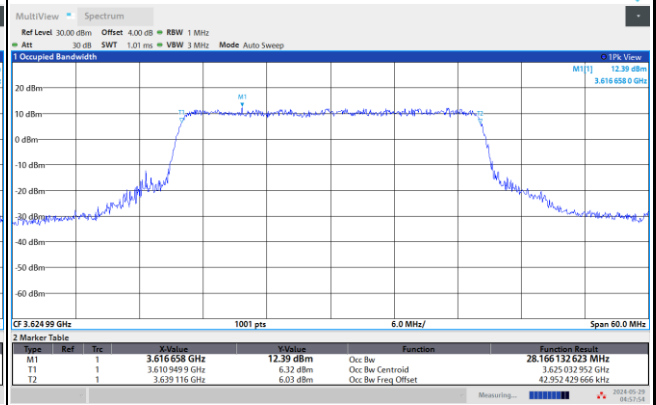
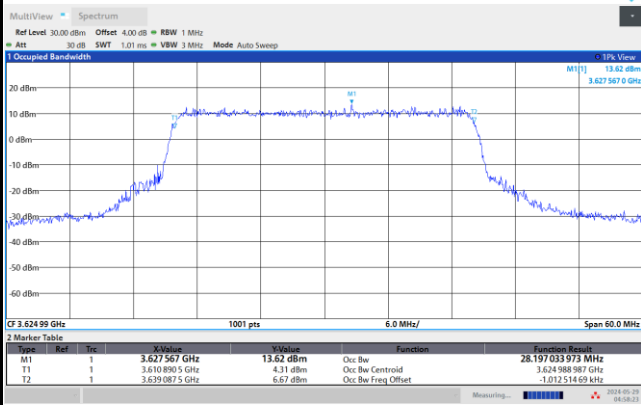




FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

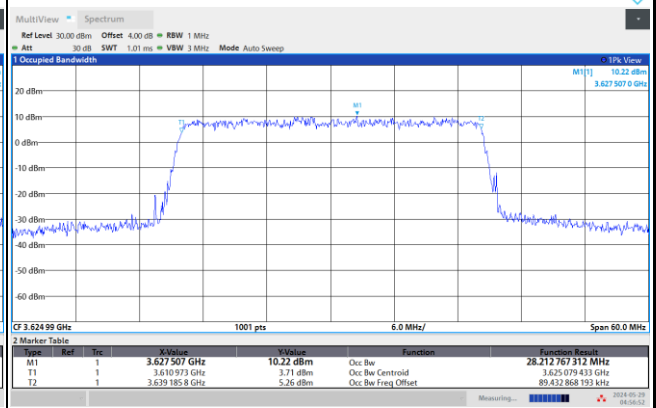
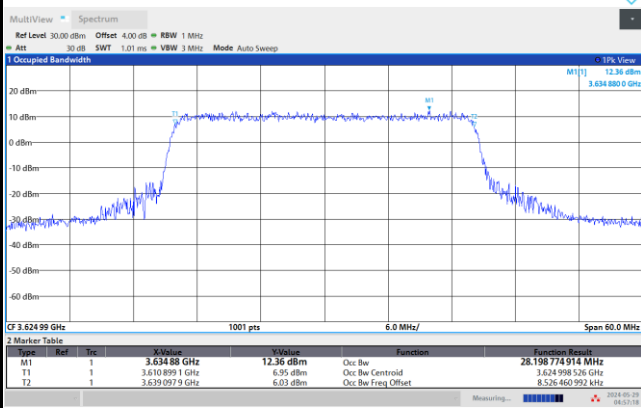
QPSK

16QAM



64QAM

256QAM

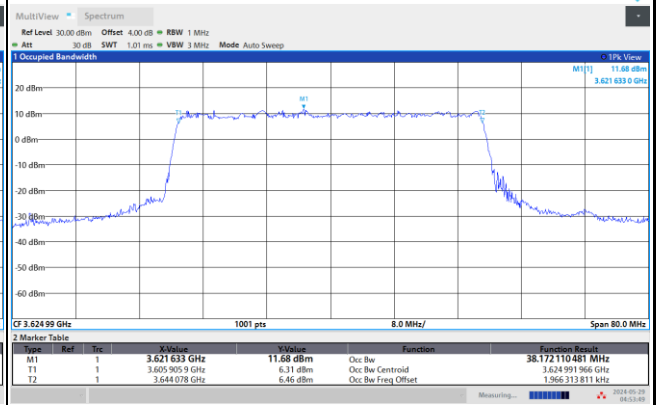
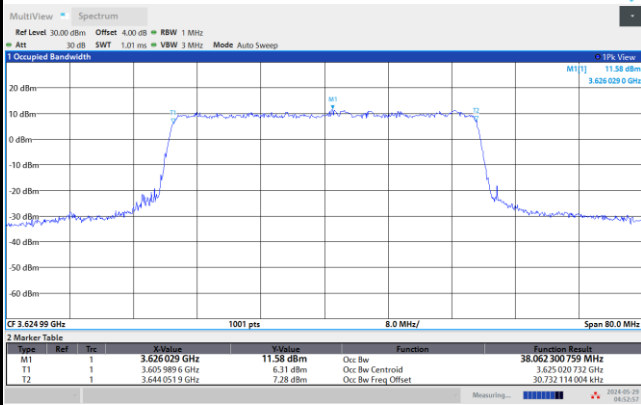




FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

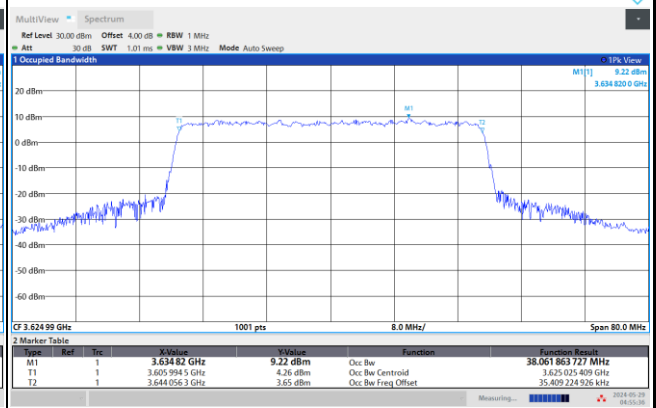
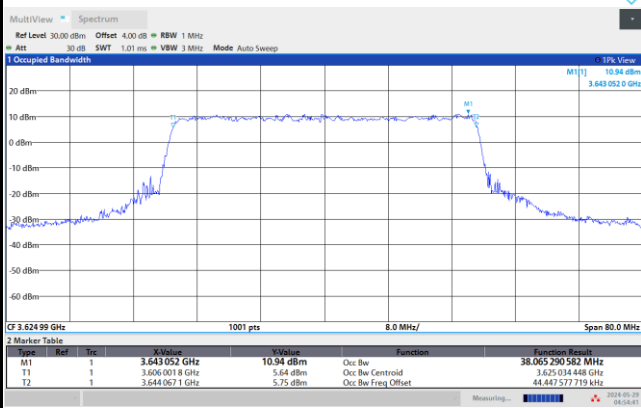
QPSK

16QAM



64QAM

256QAM





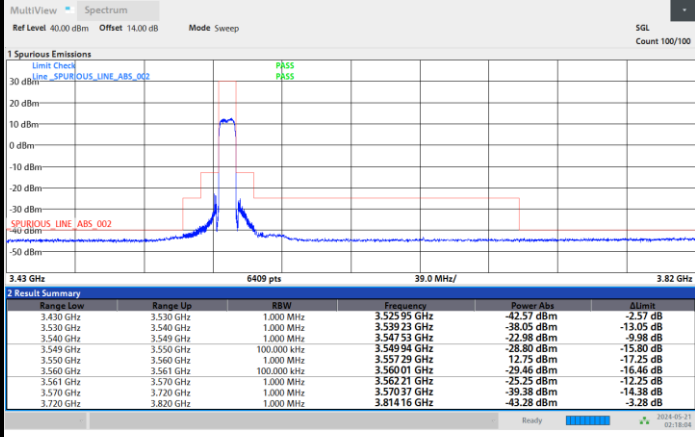
Unwanted Emission (MASK)

FR1 n48 / 10MHz / CP OFDM / QPSK
Lowest Channel

1RB0	Power Limit -40dBm -44.03 dBm Pass																																																																								
<p>MultiView Spectrum Ref Level 40.00 dBm Offset 14.00 dB Mode Sweep SGL Count 100/100</p> <p>1 Spurious Emissions Limit Check Line -SPURIOUS_LINE_ABS_002 PSS PSS</p> <p>3.43 GHz 6409 pts 39.0 MHz/ 3.82 GHz</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ΔLimit</th> </tr> </thead> <tbody> <tr><td>3.430 GHz</td><td>3.530 GHz</td><td>1.000 MHz</td><td>3.524 76 GHz</td><td>-40.80 dBm</td><td>-0.80 dB</td></tr> <tr><td>3.530 GHz</td><td>3.540 GHz</td><td>1.000 MHz</td><td>3.539 45 GHz</td><td>-39.90 dBm</td><td>-14.90 dB</td></tr> <tr><td>3.540 GHz</td><td>3.549 GHz</td><td>1.000 MHz</td><td>3.548 55 GHz</td><td>-16.81 dBm</td><td>-3.81 dB</td></tr> <tr><td>3.549 GHz</td><td>3.550 GHz</td><td>100.000 kHz</td><td>3.549 99 GHz</td><td>-21.76 dBm</td><td>-8.76 dB</td></tr> <tr><td>3.550 GHz</td><td>3.560 GHz</td><td>1.000 MHz</td><td>3.550 72 GHz</td><td>21.45 dBm</td><td>-8.55 dB</td></tr> <tr><td>3.560 GHz</td><td>3.561 GHz</td><td>100.000 kHz</td><td>3.560 63 GHz</td><td>-51.28 dBm</td><td>-38.28 dB</td></tr> <tr><td>3.561 GHz</td><td>3.570 GHz</td><td>1.000 MHz</td><td>3.567 73 GHz</td><td>-38.93 dBm</td><td>-25.93 dB</td></tr> <tr><td>3.570 GHz</td><td>3.720 GHz</td><td>1.000 MHz</td><td>3.579 97 GHz</td><td>-40.94 dBm</td><td>-15.94 dB</td></tr> <tr><td>3.720 GHz</td><td>3.820 GHz</td><td>1.000 MHz</td><td>3.803 27 GHz</td><td>-43.26 dBm</td><td>-3.26 dB</td></tr> </tbody> </table> <p>02:16:48 AM 05/21/2024</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	3.430 GHz	3.530 GHz	1.000 MHz	3.524 76 GHz	-40.80 dBm	-0.80 dB	3.530 GHz	3.540 GHz	1.000 MHz	3.539 45 GHz	-39.90 dBm	-14.90 dB	3.540 GHz	3.549 GHz	1.000 MHz	3.548 55 GHz	-16.81 dBm	-3.81 dB	3.549 GHz	3.550 GHz	100.000 kHz	3.549 99 GHz	-21.76 dBm	-8.76 dB	3.550 GHz	3.560 GHz	1.000 MHz	3.550 72 GHz	21.45 dBm	-8.55 dB	3.560 GHz	3.561 GHz	100.000 kHz	3.560 63 GHz	-51.28 dBm	-38.28 dB	3.561 GHz	3.570 GHz	1.000 MHz	3.567 73 GHz	-38.93 dBm	-25.93 dB	3.570 GHz	3.720 GHz	1.000 MHz	3.579 97 GHz	-40.94 dBm	-15.94 dB	3.720 GHz	3.820 GHz	1.000 MHz	3.803 27 GHz	-43.26 dBm	-3.26 dB	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 14.00 dB RBW 10 kHz SGL Count 100/100 Att 30 dB SWT 100 ms VBW 30 kHz Mode Sweep</p> <p>1 ACLR Tx1</p> <p>CF 3.524 76 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz</p> <table border="1"> <thead> <tr> <th>Channel</th> <th>Bandwidth</th> <th>Offset</th> <th>Power</th> </tr> </thead> <tbody> <tr><td>Tx1 (Ref)</td><td>1.000 MHz</td><td></td><td>-44.03 dBm</td></tr> <tr><td>Tx total</td><td></td><td></td><td>-44.03 dBm</td></tr> </tbody> </table> <p>03:42:14 AM 05/21/2024</p>	Channel	Bandwidth	Offset	Power	Tx1 (Ref)	1.000 MHz		-44.03 dBm	Tx total			-44.03 dBm
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Full RB



02:18:05 AM 05/21/2024

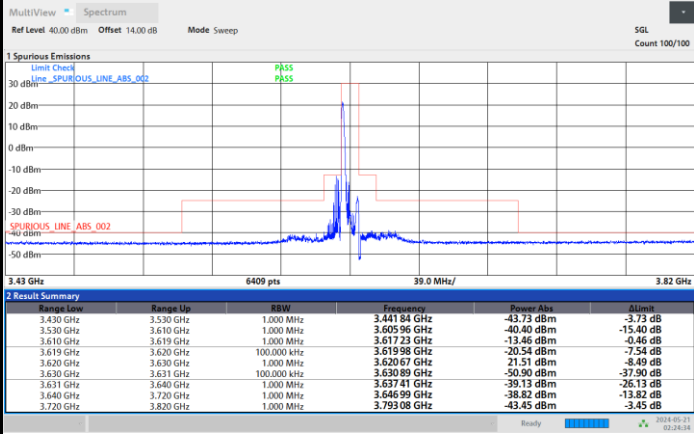


FR1 n48 / 10MHz / CP OFDM / QPSK

Middle Channel

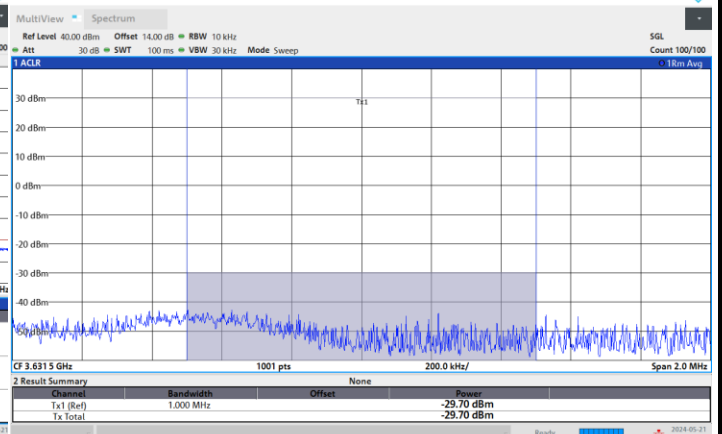
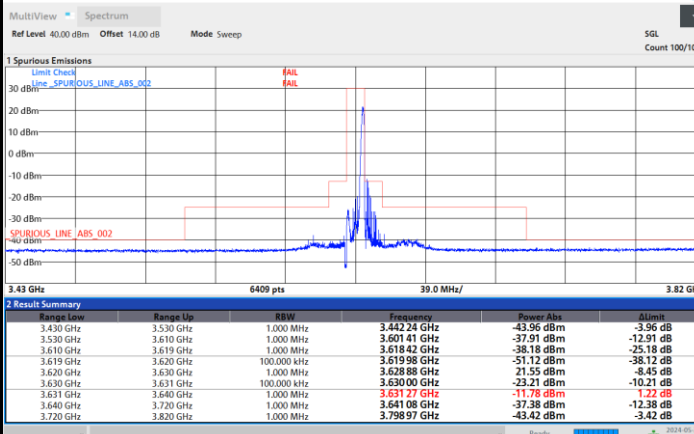
1RB0

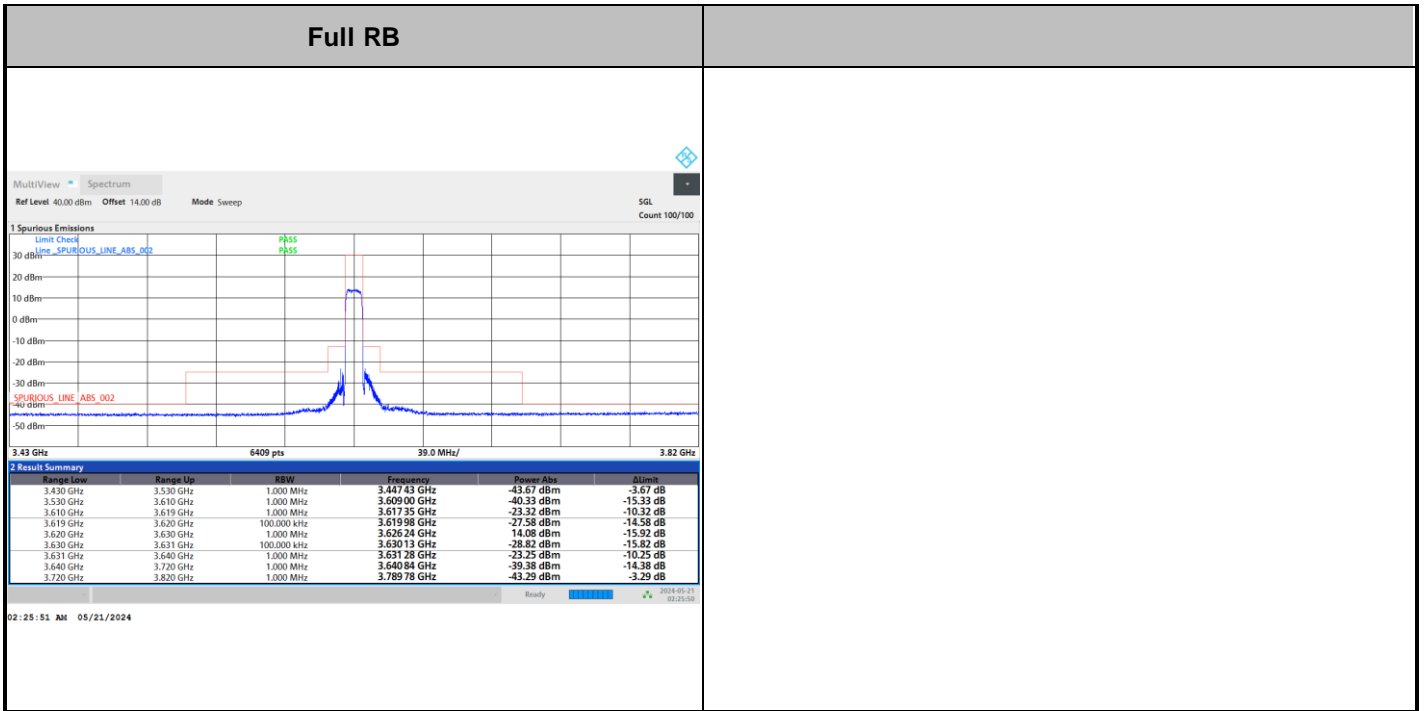
Power Limit -40dBm -29.70 dBm Pass



1RBmax

Power Limit -13dBm -29.70 dBm Pass





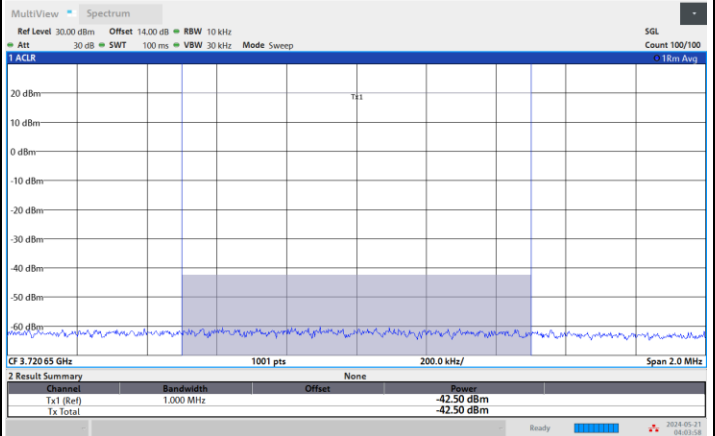
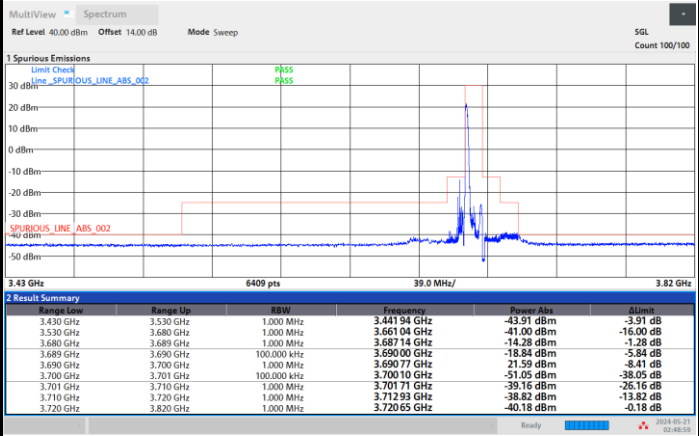


FR1 n48 / 10MHz / CP OFDM / QPSK

Highest Channel

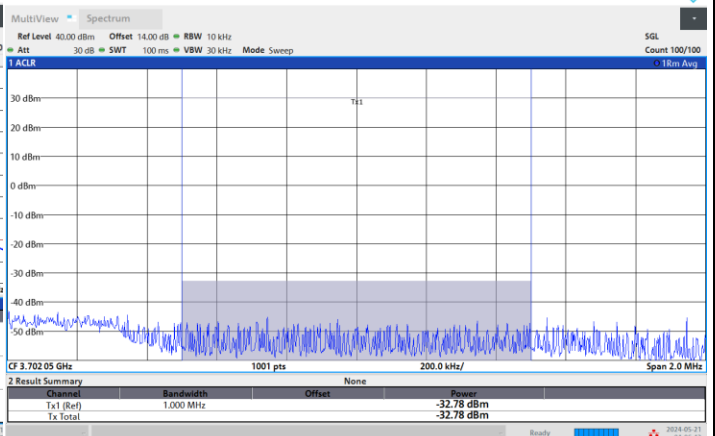
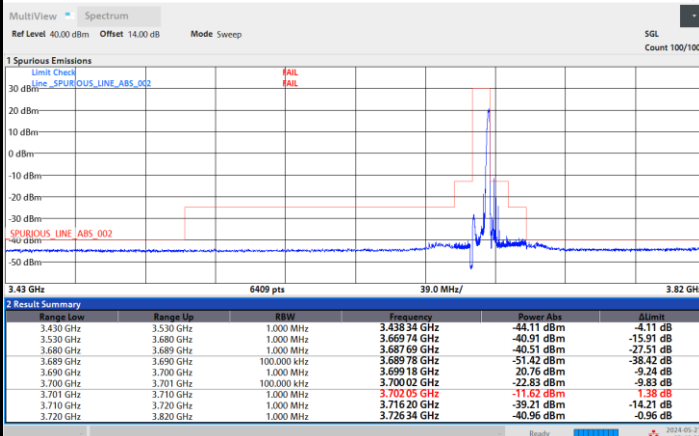
1RB0

Power Limit -40dBm -42.50 dBm Pass



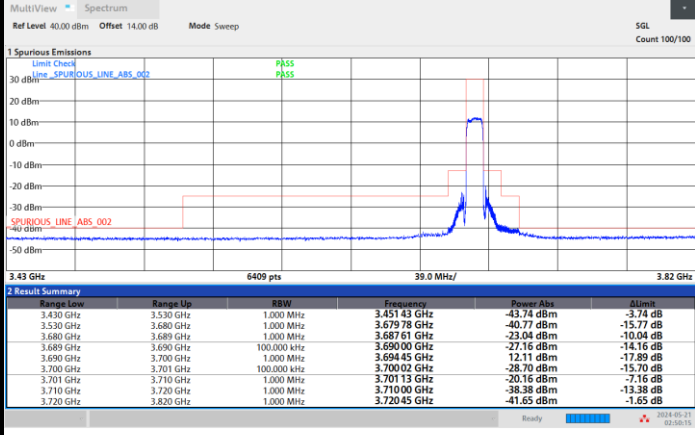
1RBmax

Power Limit -13dBm -32.78 dBm Pass





Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	dLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.451 43 GHz	-43.74 dBm	-3.74 dB
3.530 GHz	3.680 GHz	1.000 MHz	3.679 78 GHz	-40.77 dBm	-15.77 dB
3.680 GHz	3.680 GHz	1.000 MHz	3.687 61 GHz	-23.04 dBm	-10.04 dB
3.680 GHz	3.690 GHz	100.000 kHz	3.690 00 GHz	-27.16 dBm	-14.16 dB
3.690 GHz	3.700 GHz	1.000 MHz	3.694 45 GHz	12.11 dBm	-17.89 dB
3.700 GHz	3.701 GHz	100.000 kHz	3.700 02 GHz	-28.70 dBm	-15.70 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 13 GHz	-20.16 dBm	-7.16 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 00 GHz	-38.38 dBm	-13.38 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 45 GHz	-41.65 dBm	-1.65 dB

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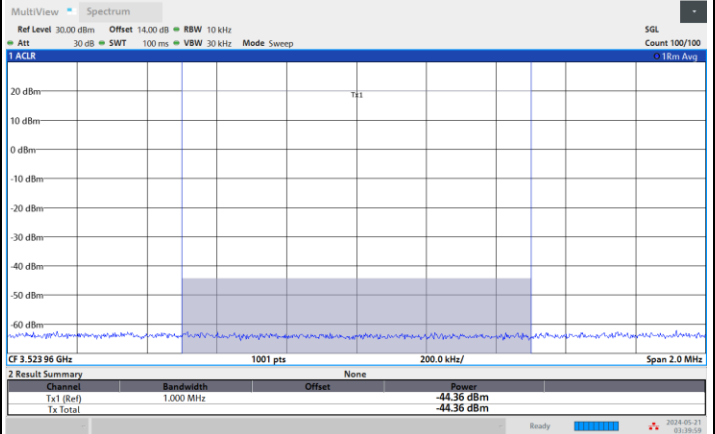
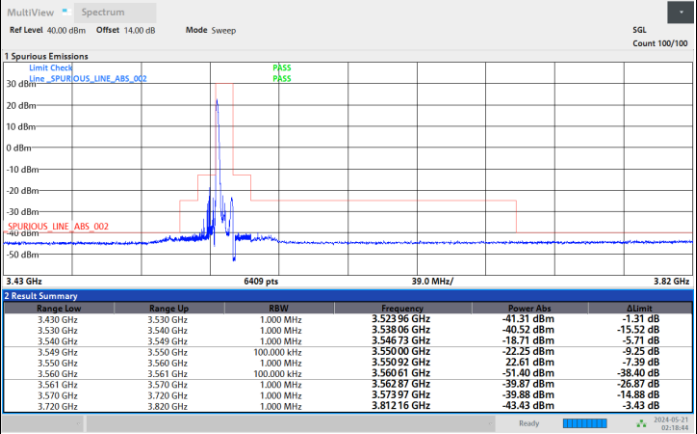


FR1 n48 / 10MHz / CP OFDM / 16QAM

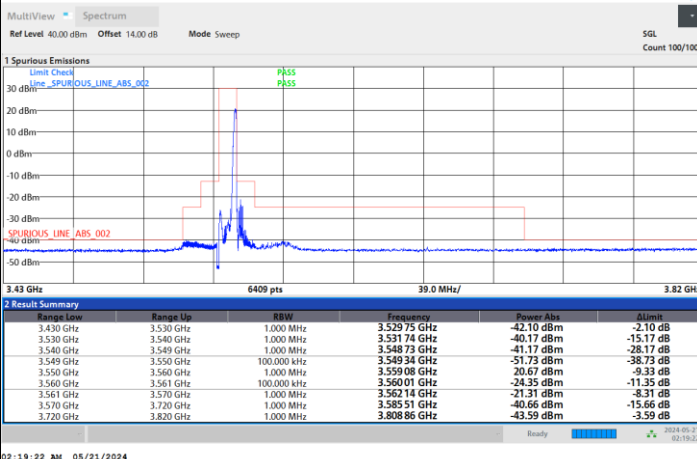
Lowest Channel

1RB0

Power Limit -40dBm -44.36 dBm Pass

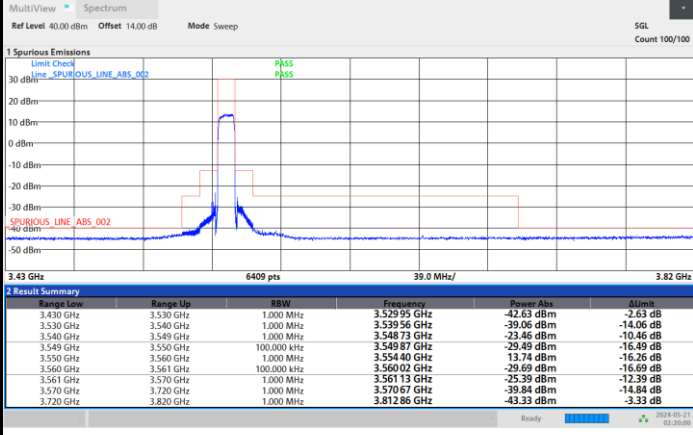


1RBmax





Full RB



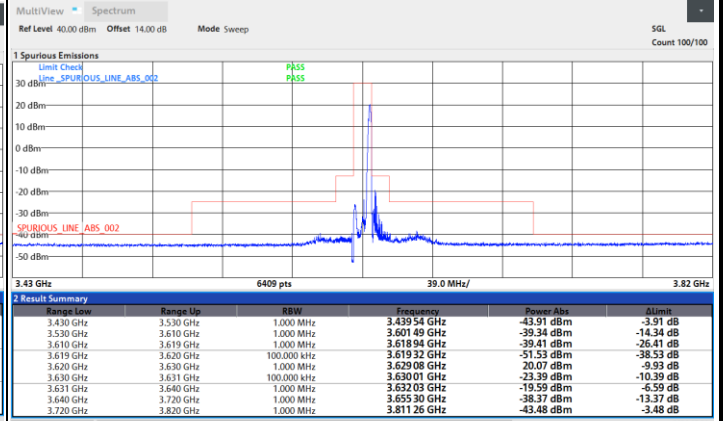
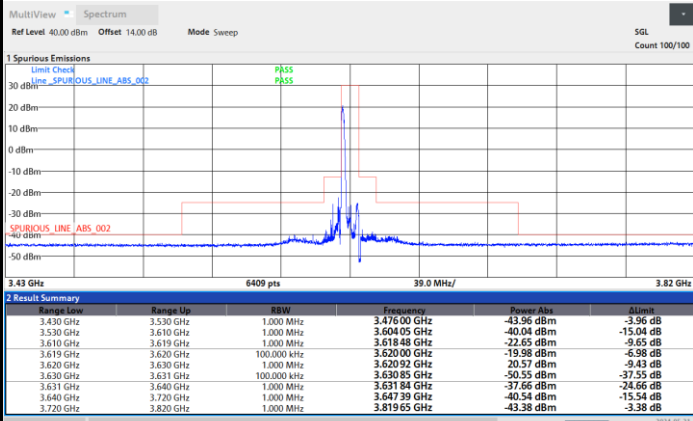


FR1 n48 / 10MHz / CP OFDM / 16QAM

Middle Channel

1RB0

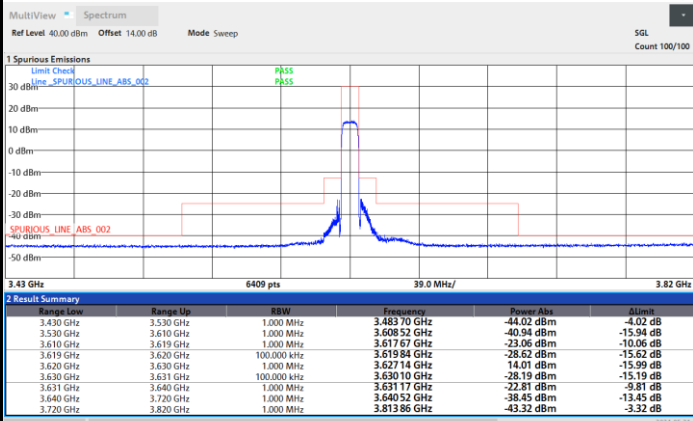
1RBmax



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Full RB



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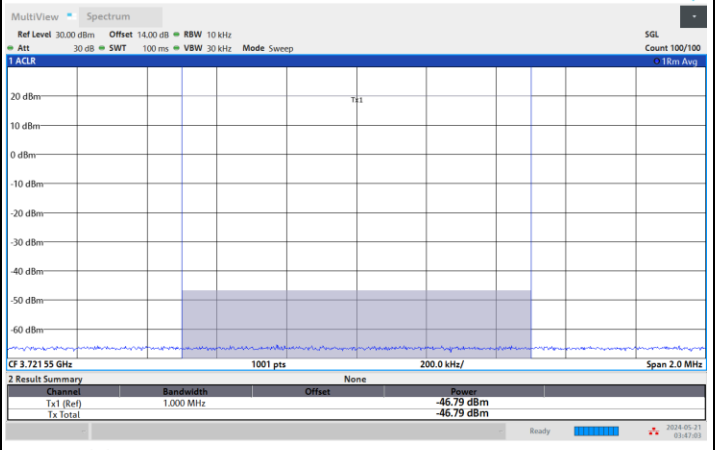
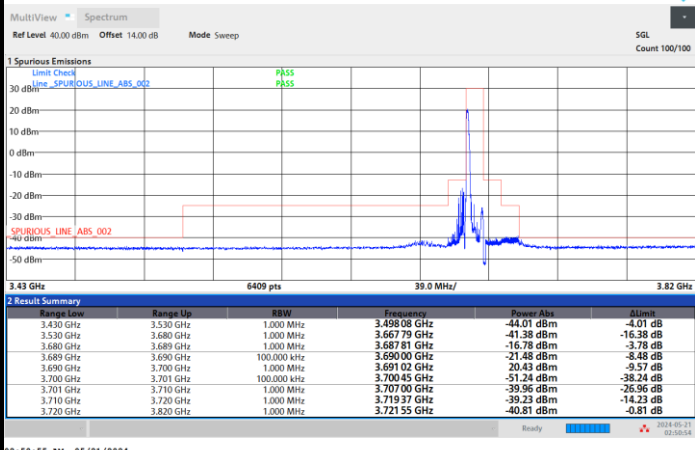


FR1 n48 / 10MHz / CP OFDM / 16QAM

Highest Channel

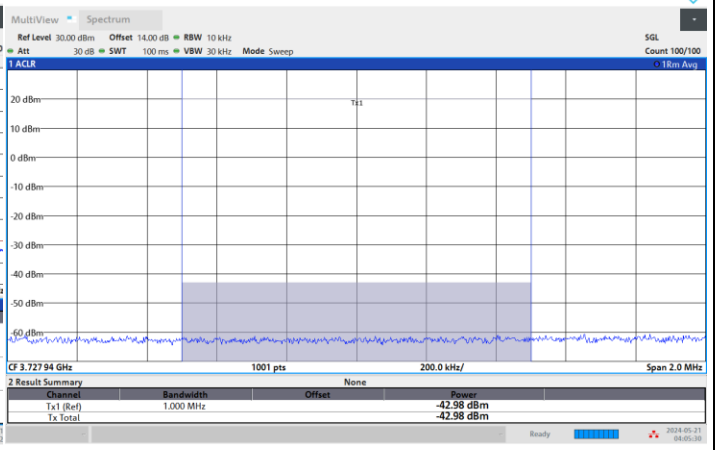
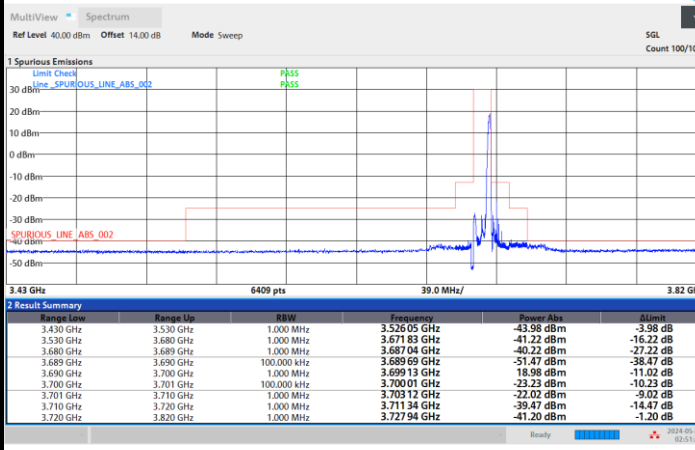
1RB0

Power Limit -40dBm -46.79 dBm Pass



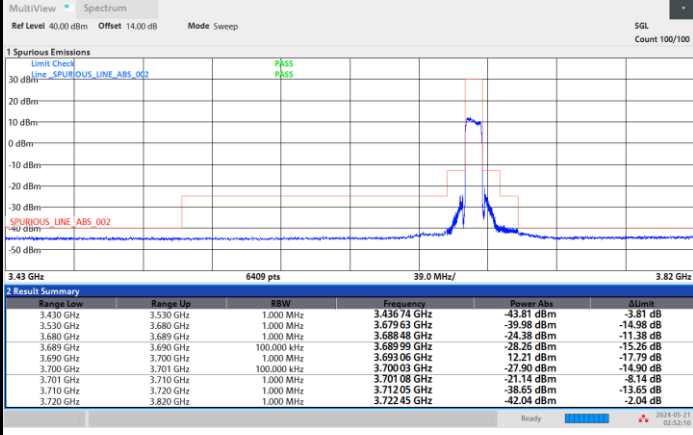
1RBmax

Power Limit -40dBm -42.98 dBm Pass





Full RB



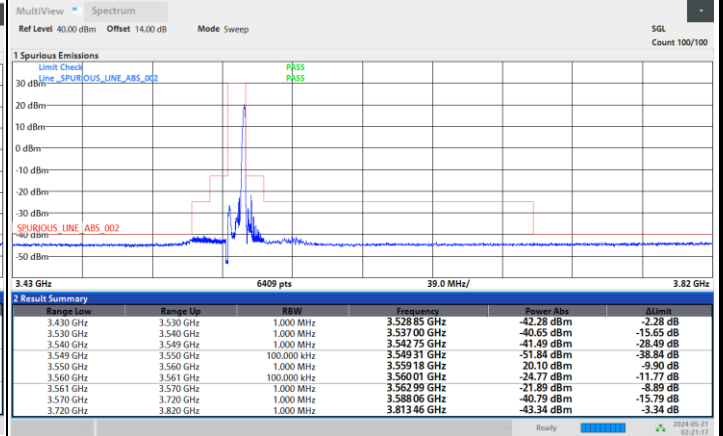
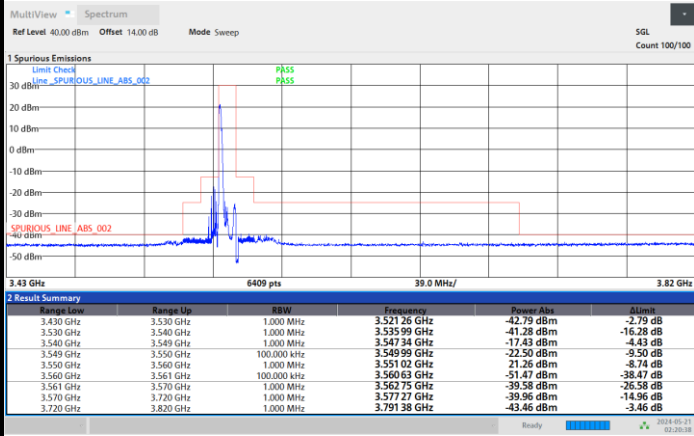


FR1 n48 / 10MHz / CP OFDM / 64QAM

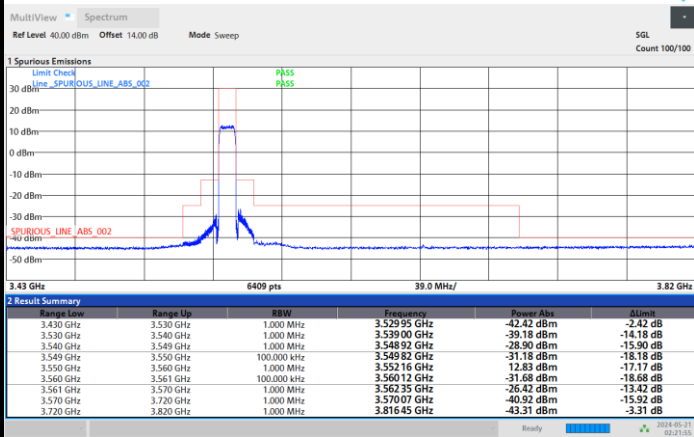
Lowest Channel

1RB0

1RBmax



Full RB



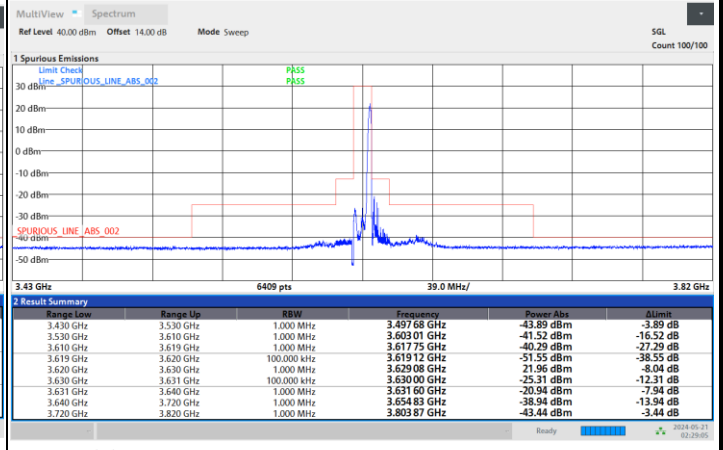
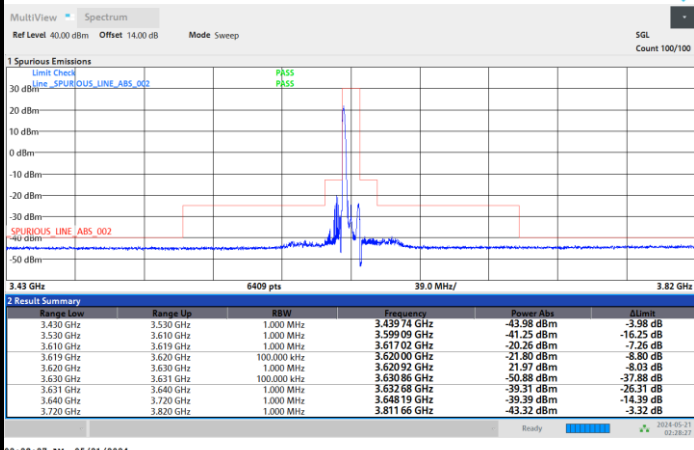


FR1 n48 / 10MHz / CP OFDM / 64QAM

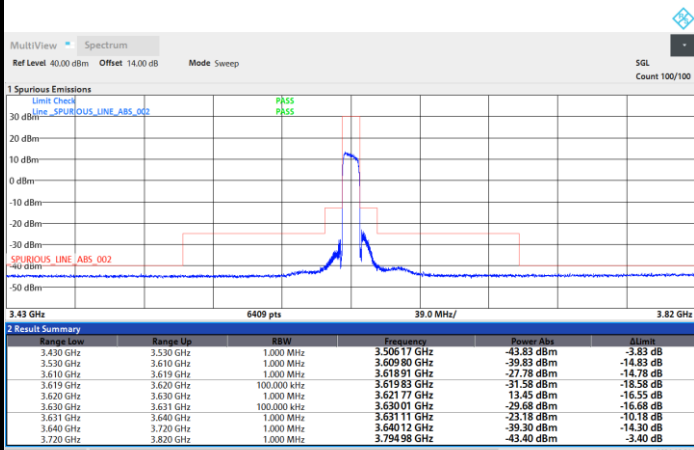
Middle Channel

1RB0

1RBmax



Full RB



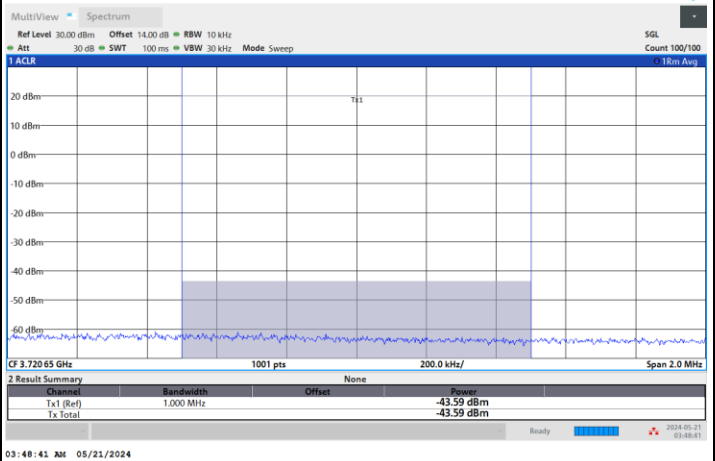
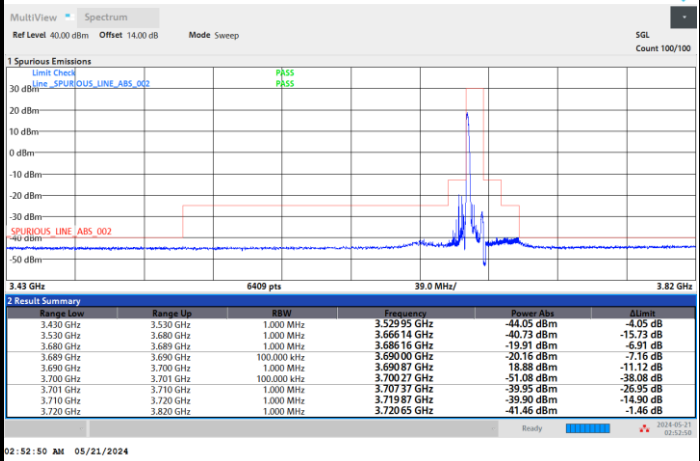


FR1 n48 / 10MHz / CP OFDM / 64QAM

Highest Channel

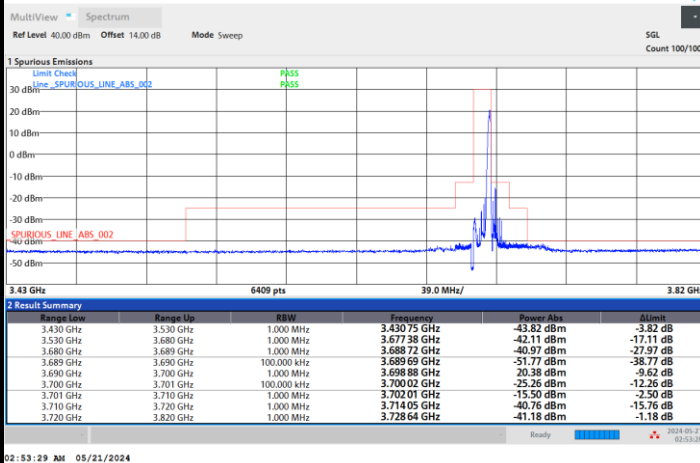
1RB0

Power Limit -40dBm -43.59 dBm Pass



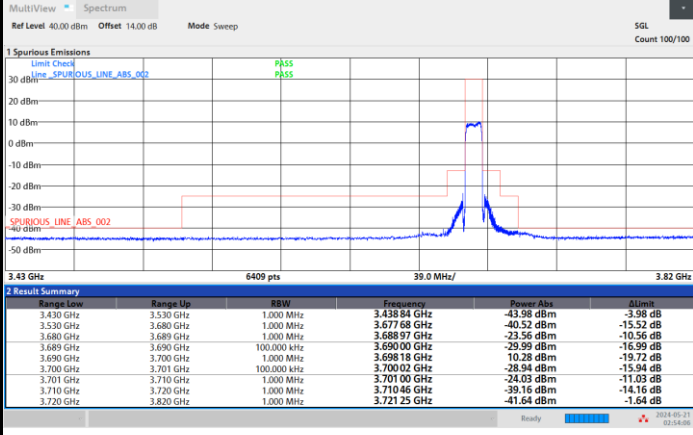
1RBmax

Power Limit -40dBm -41. dBm Pass





Full RB



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