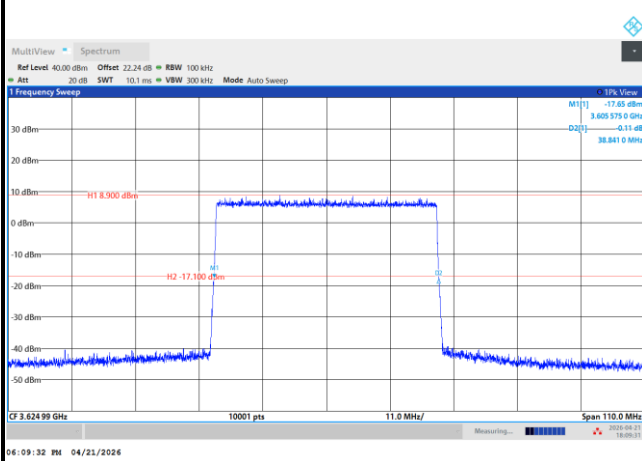


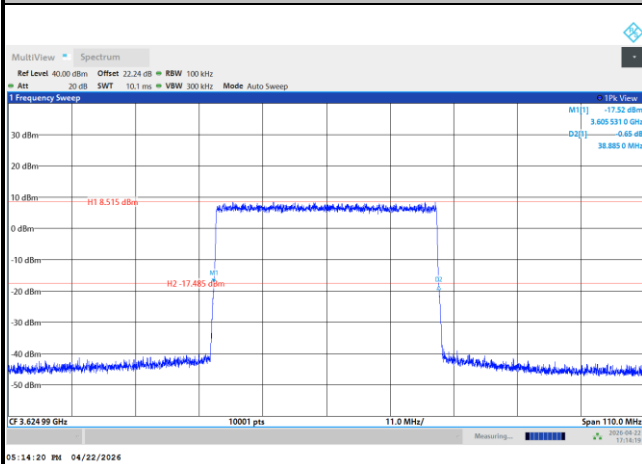


FR1 n48 / 40MHz / Middle Channel / 26dB BW

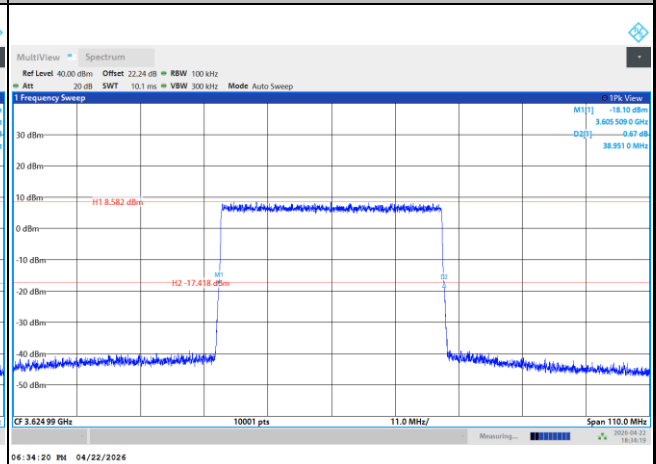
QPSK



64QAM



256QAM



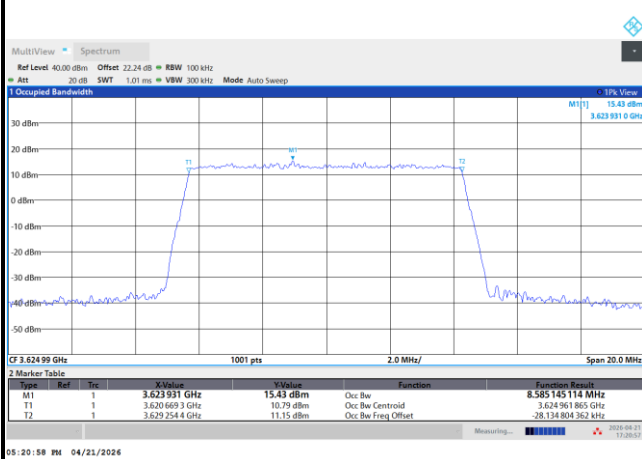
**Occupied Bandwidth**

Mode	FR1 n48 : 99%OBW (MHz)							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Middle CH	8.58	-	18.18	-	27.80	-	37.78	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.59	8.59	18.18	18.22	27.84	27.82	37.84	37.83



FR1 n48 / 10MHz / Middle Channel / 99%OBW

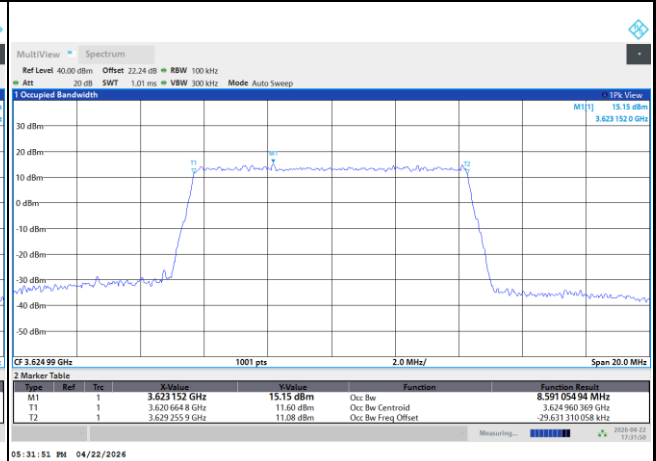
QPSK



64QAM



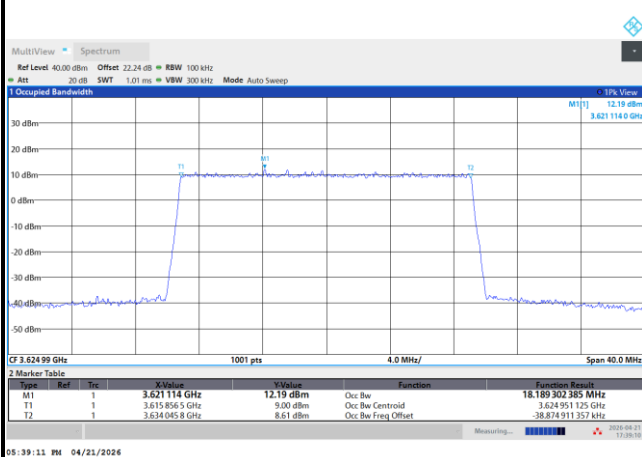
256QAM



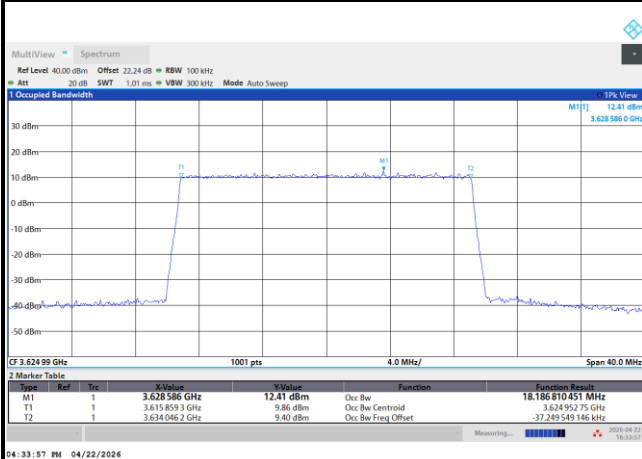


FR1 n48 / 20MHz / Middle Channel / 99%OBW

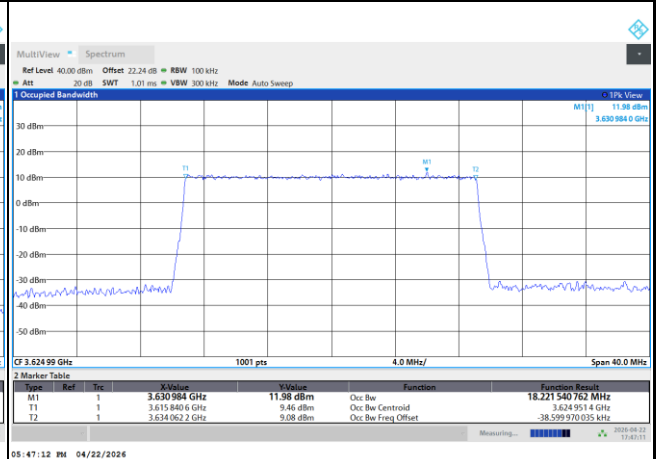
QPSK



64QAM



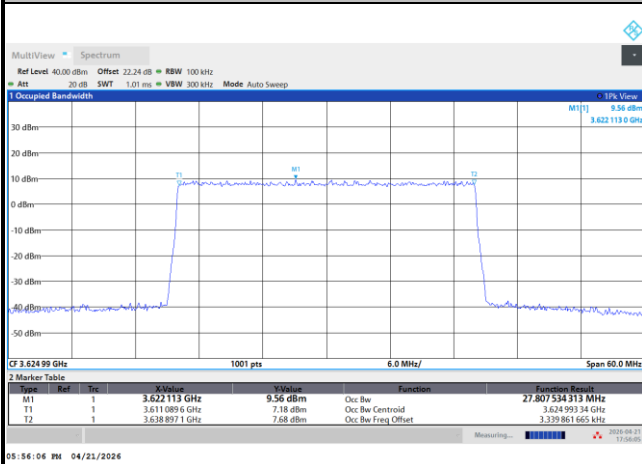
256QAM



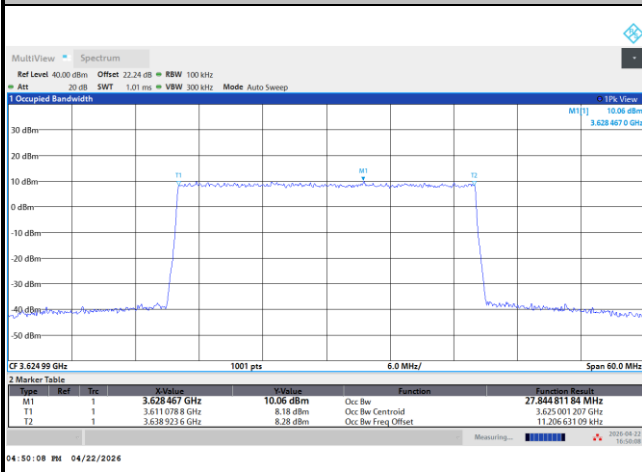


FR1 n48 / 30MHz / Middle Channel / 99%OBW

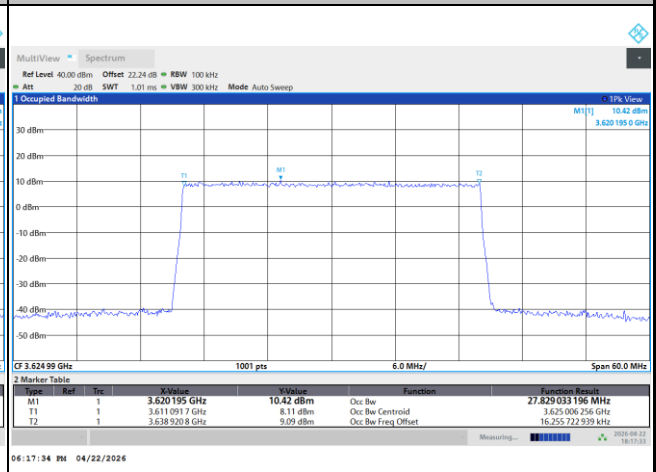
QPSK



64QAM



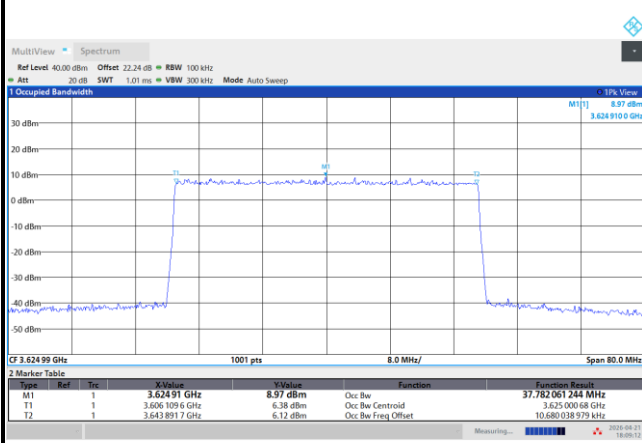
256QAM





FR1 n48 / 40MHz / Middle Channel / 99%OBW

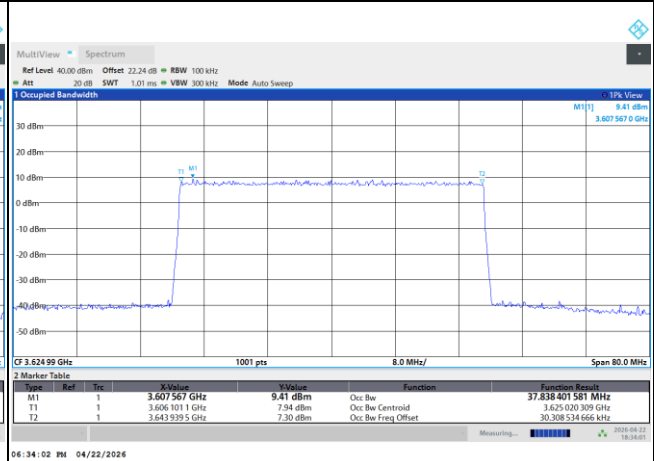
QPSK



64QAM



256QAM

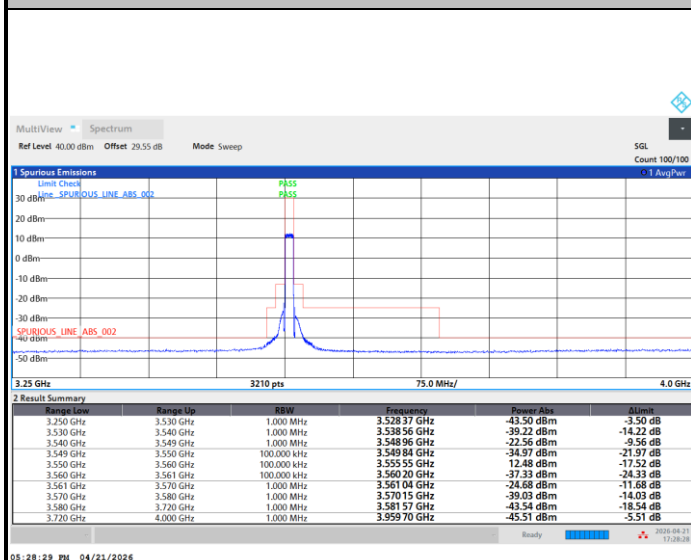




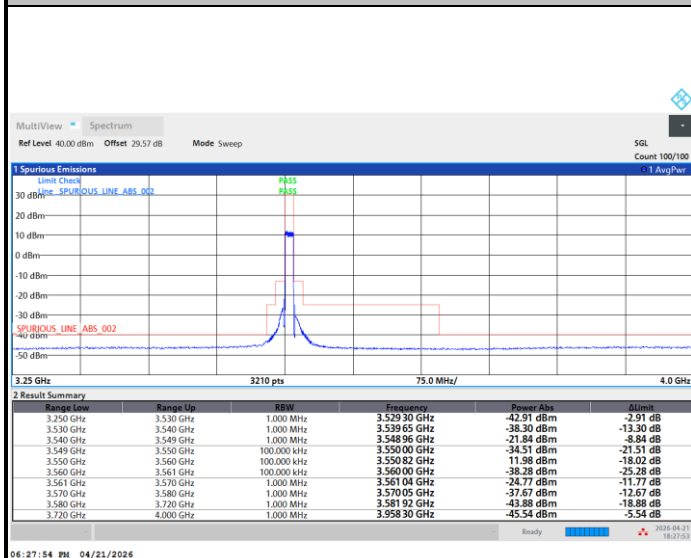
Unwanted Emission (MASK)

FR1 n48 / 10MHz / Lowest Channel / MASK

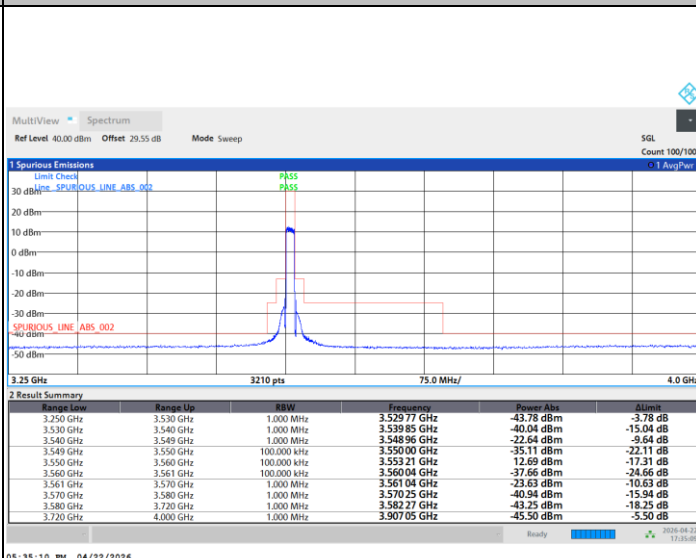
QPSK



64QAM



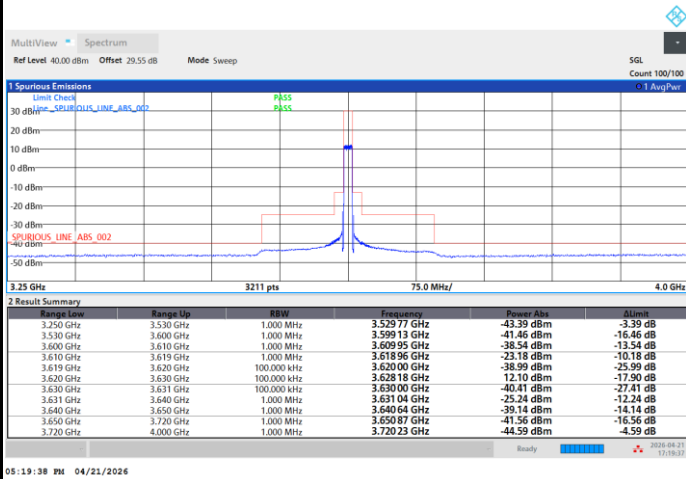
256QAM



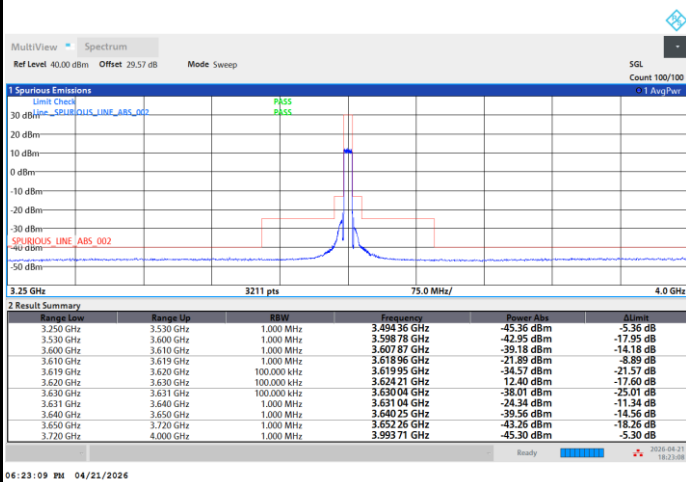


FR1 n48 / 10MHz / Middle Channel / MASK

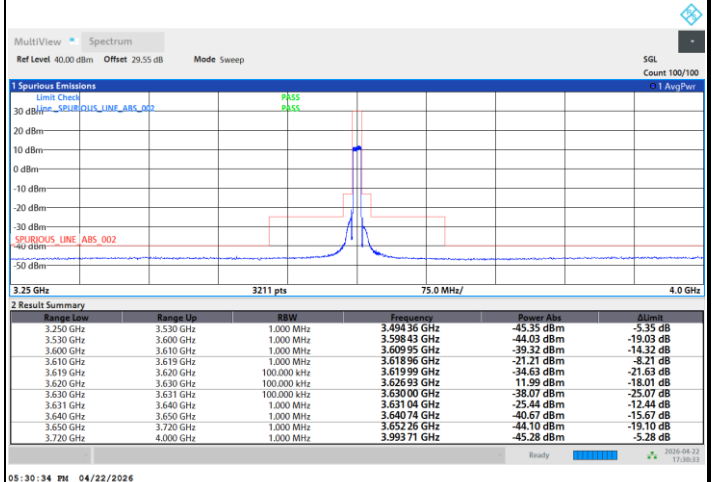
QPSK



64QAM



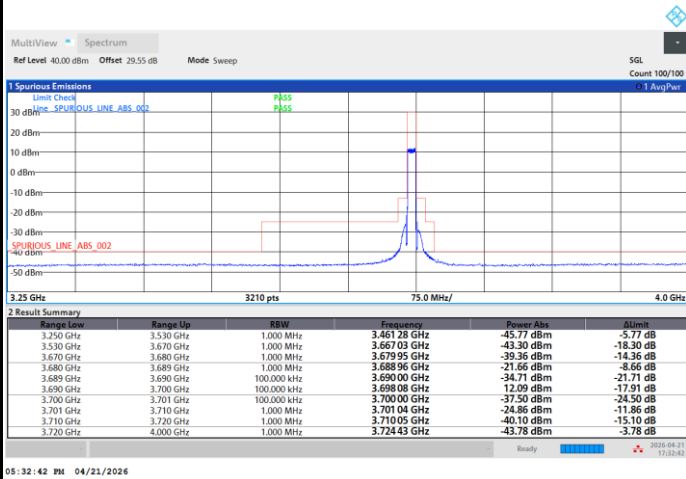
256QAM



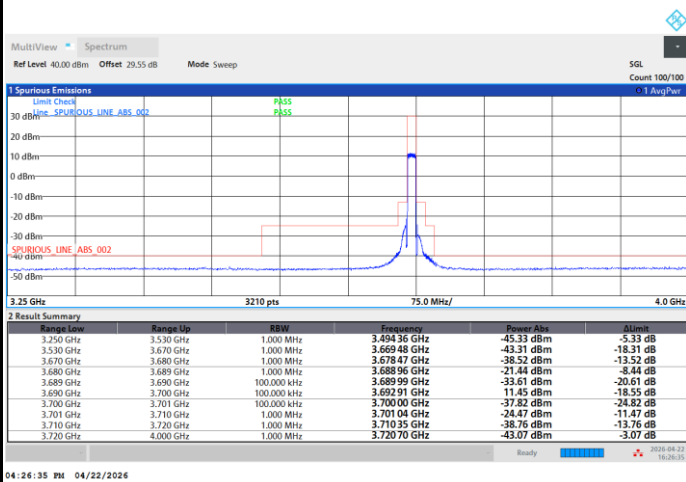


FR1 n48 / 10MHz / Highest Channel / MASK

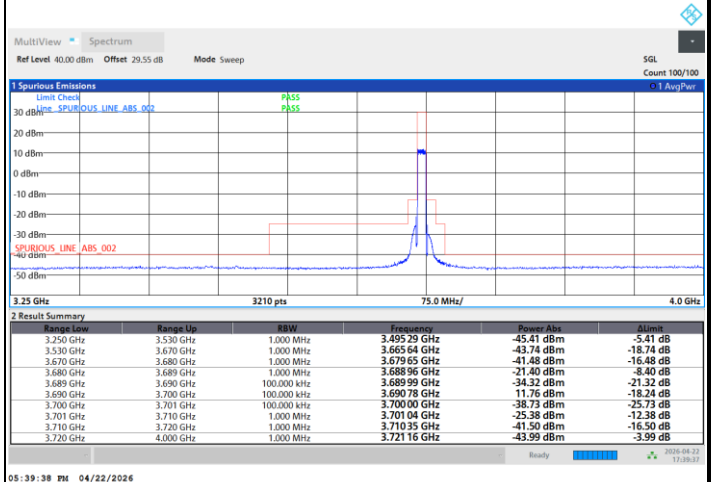
QPSK



64QAM



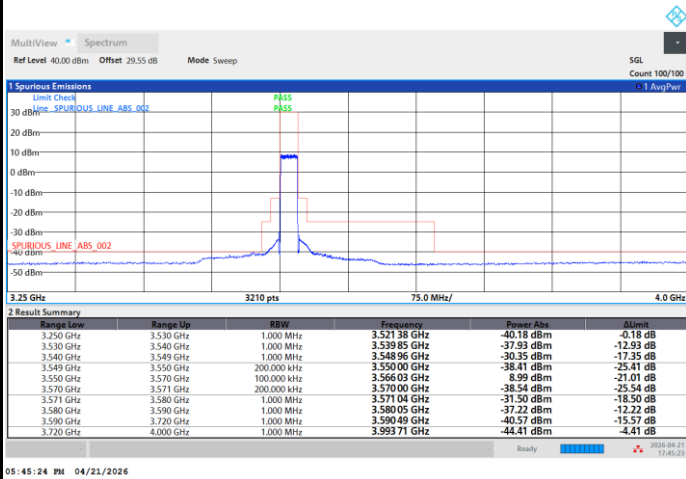
256QAM



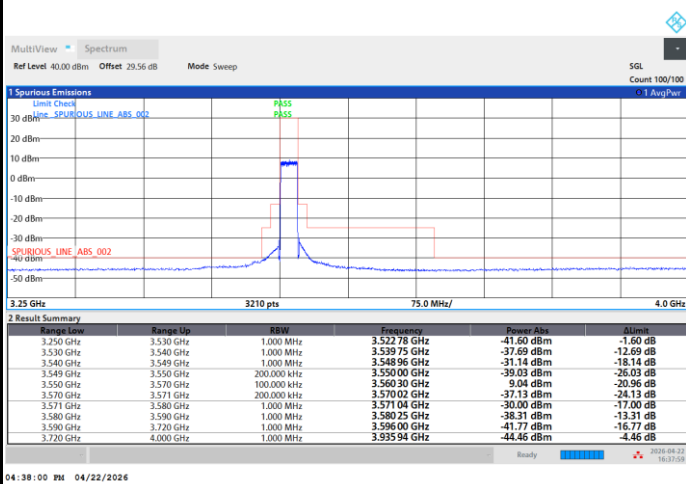


FR1 n48 / 20MHz / Lowest Channel / MASK

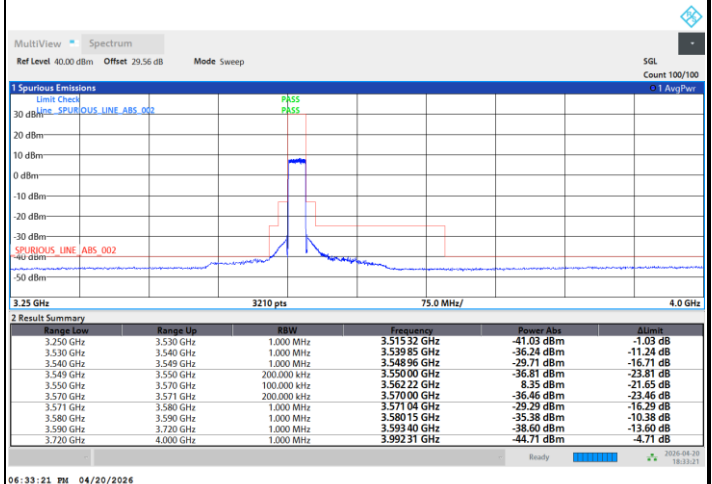
QPSK



64QAM



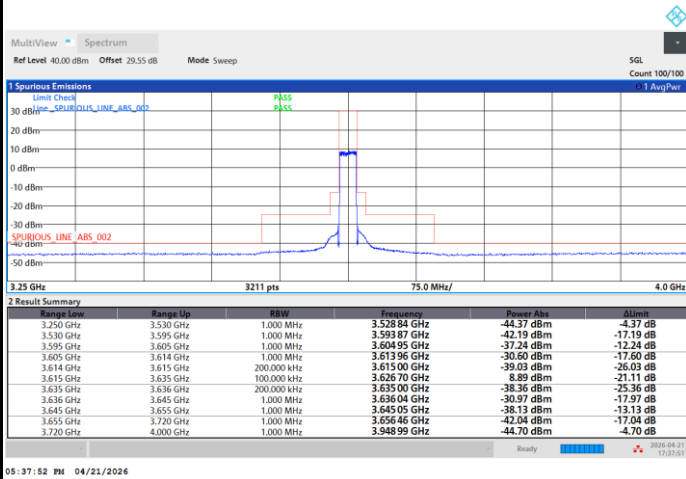
256QAM



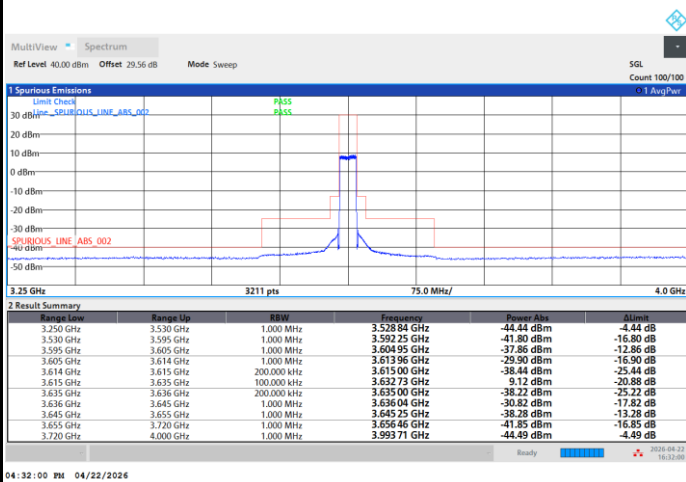


FR1 n48 / 20MHz / Middle Channel / MASK

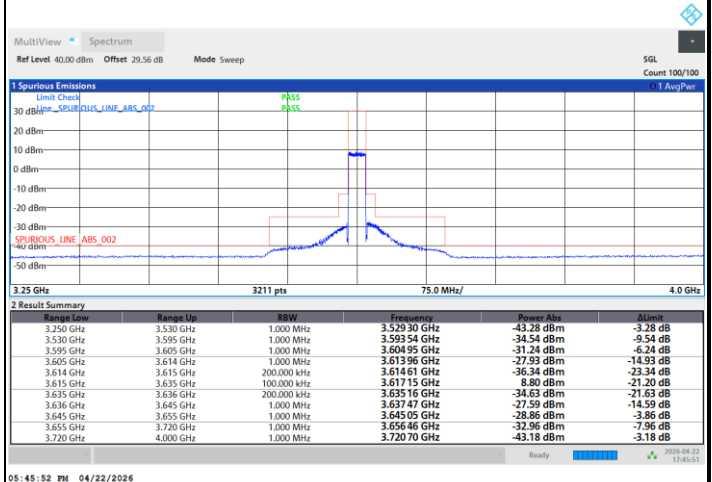
QPSK



64QAM



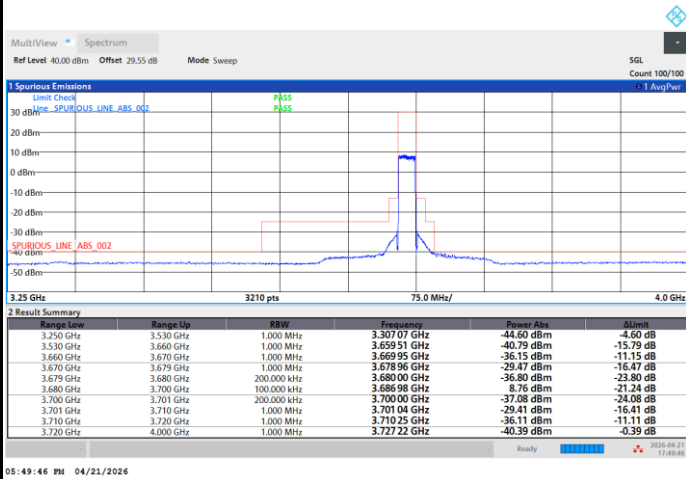
256QAM



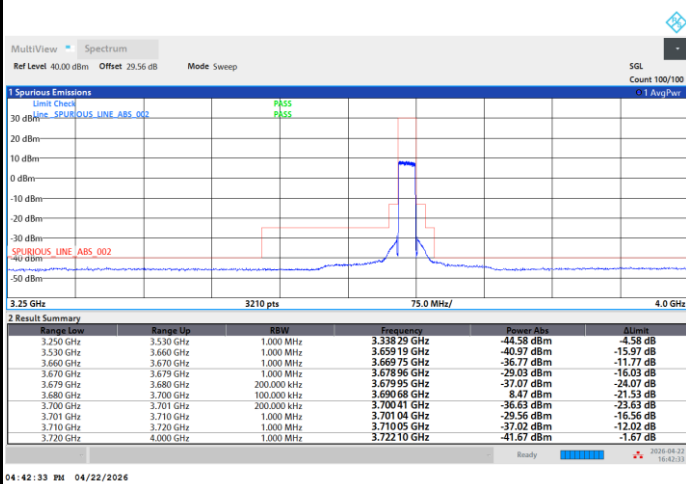


FR1 n48 / 20MHz / Highest Channel / MASK

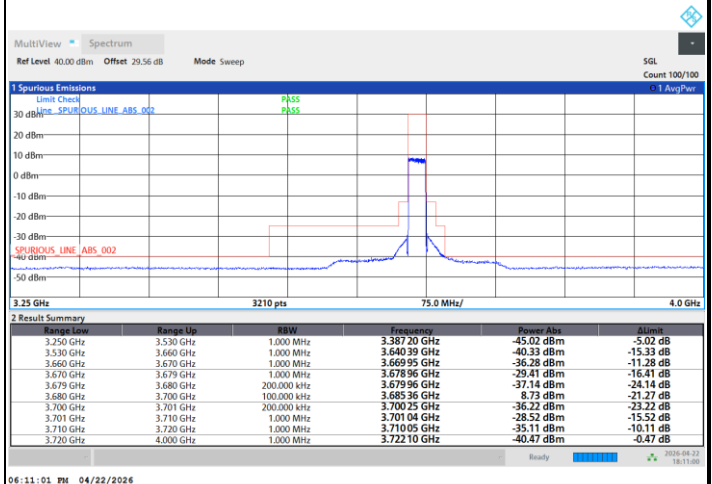
QPSK



64QAM



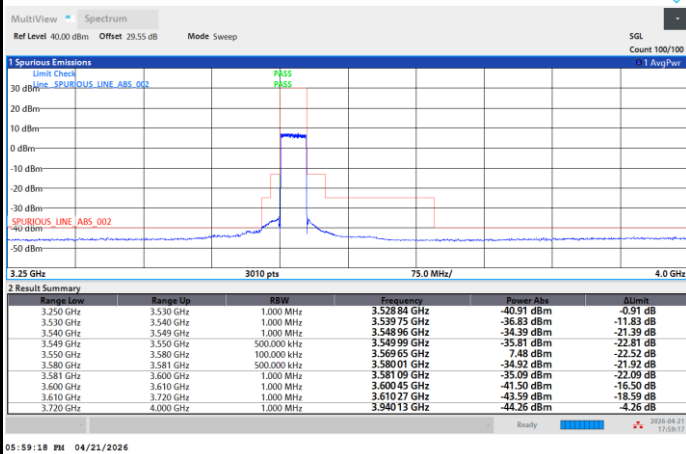
256QAM



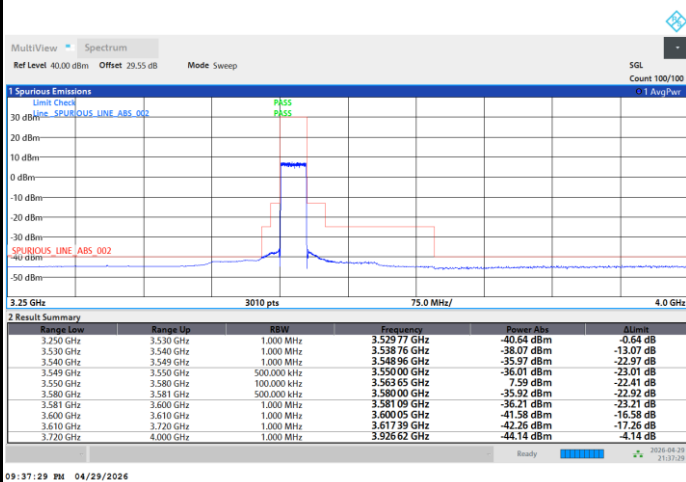


FR1 n48 / 30MHz / Lowest Channel / MASK

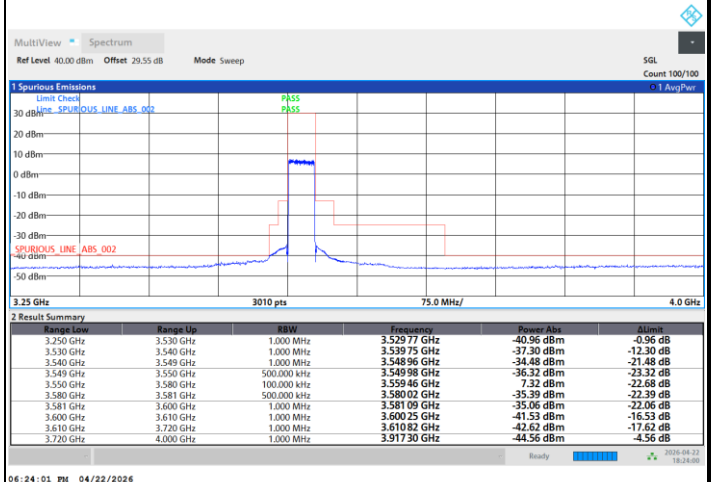
QPSK



64QAM



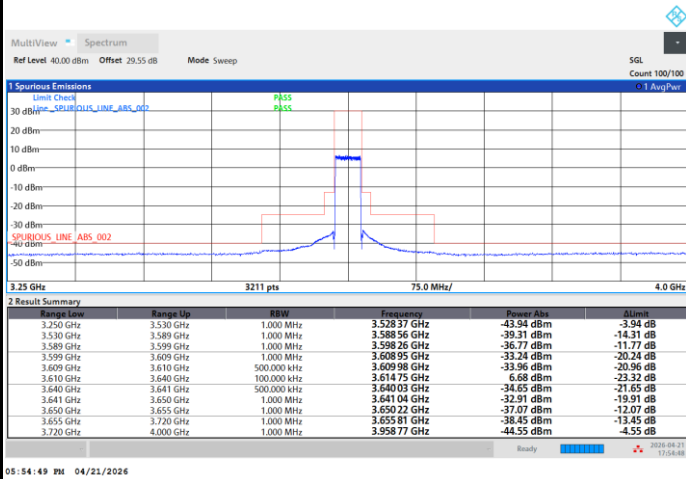
256QAM



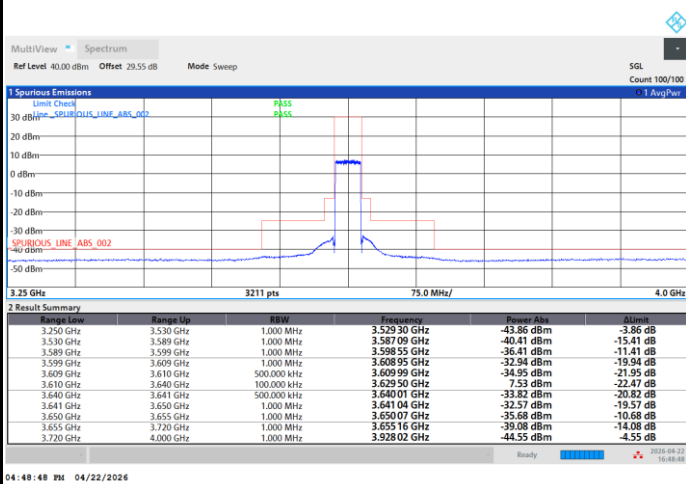


FR1 n48 / 30MHz / Middle Channel / MASK

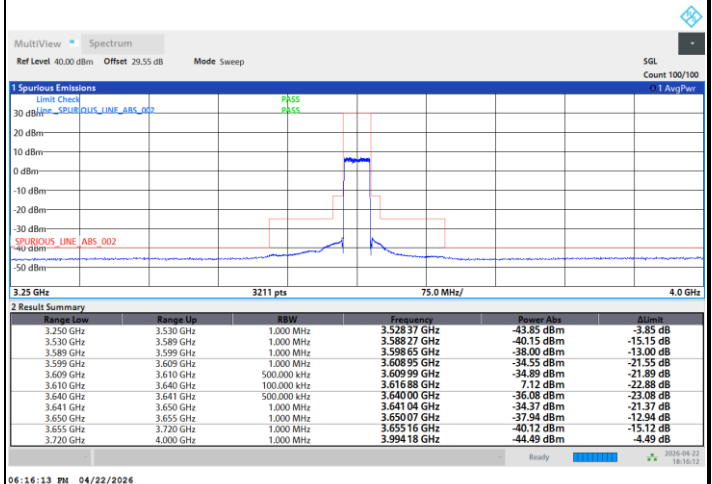
QPSK



64QAM



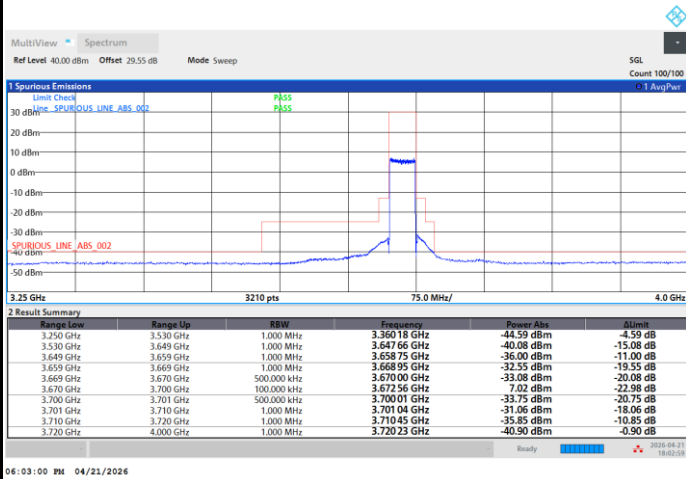
256QAM



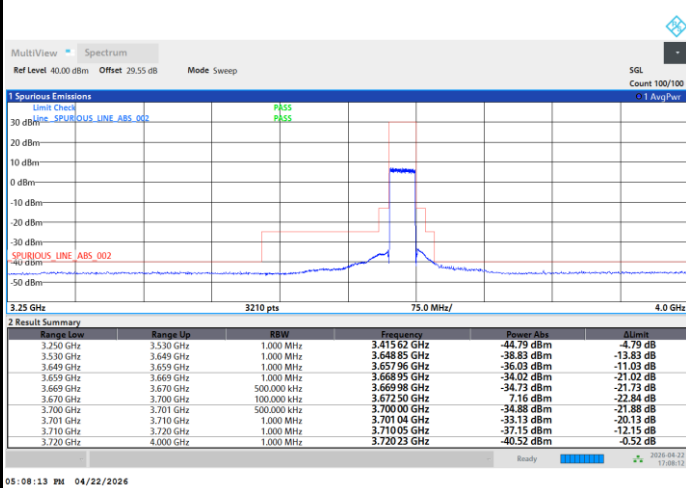


FR1 n48 / 30MHz / Highest Channel / MASK

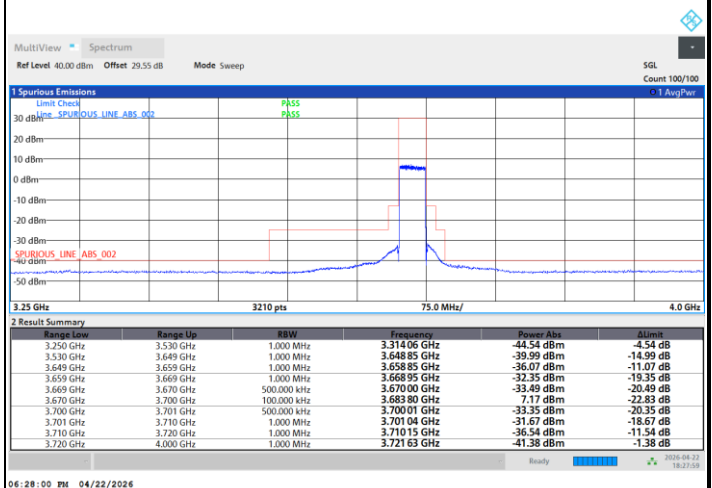
QPSK



64QAM



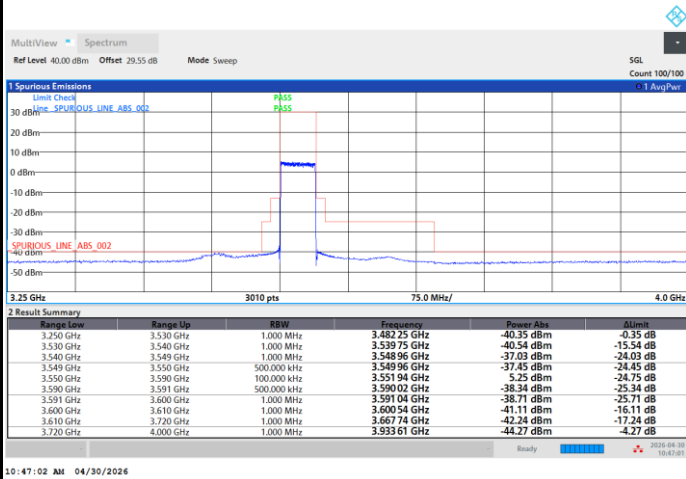
256QAM



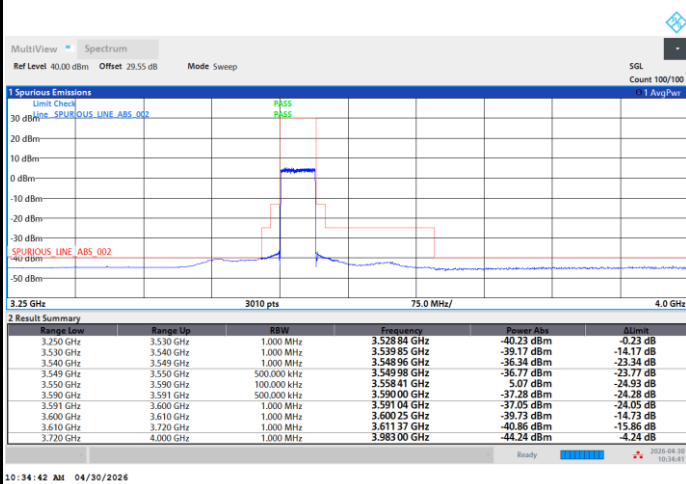


FR1 n48 / 40MHz / Lowest Channel / MASK

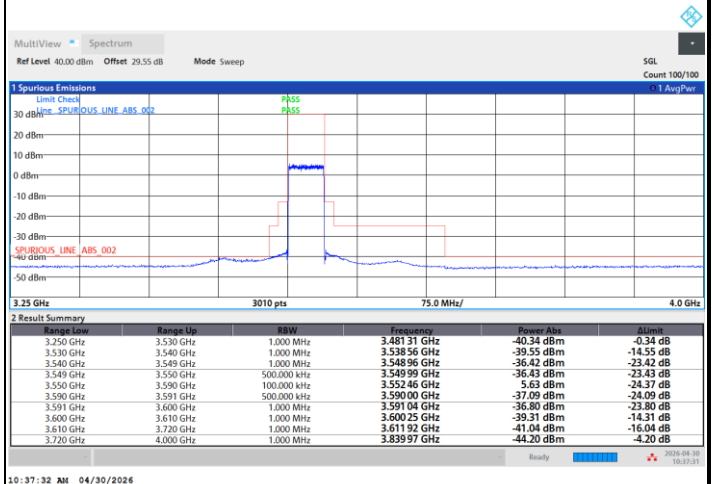
QPSK



64QAM



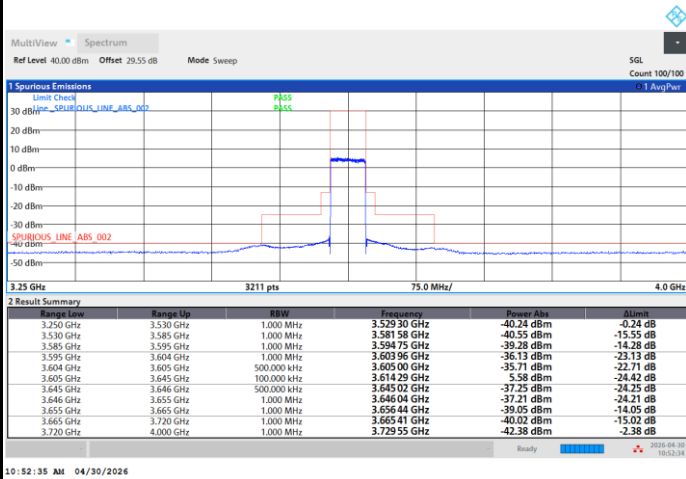
256QAM



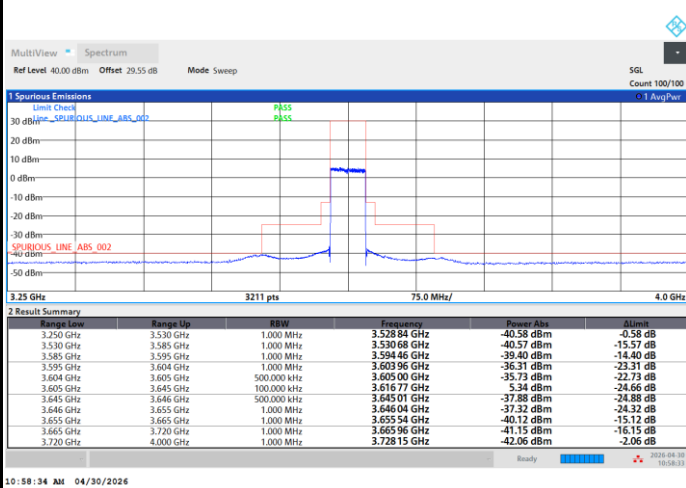


FR1 n48 / 40MHz / Middle Channel / MASK

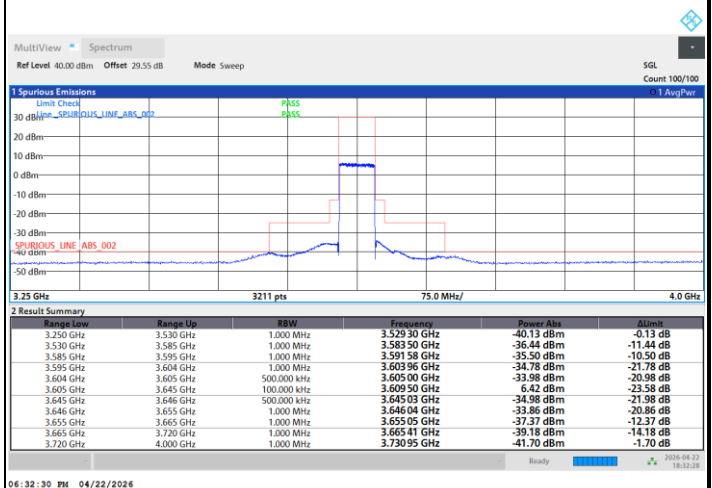
QPSK



64QAM



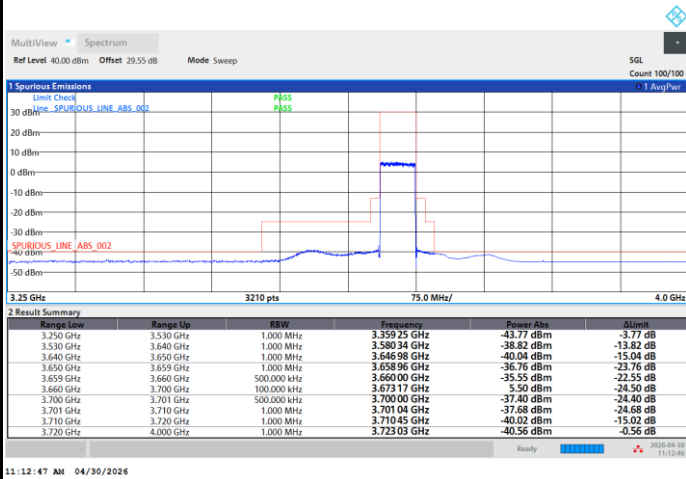
256QAM



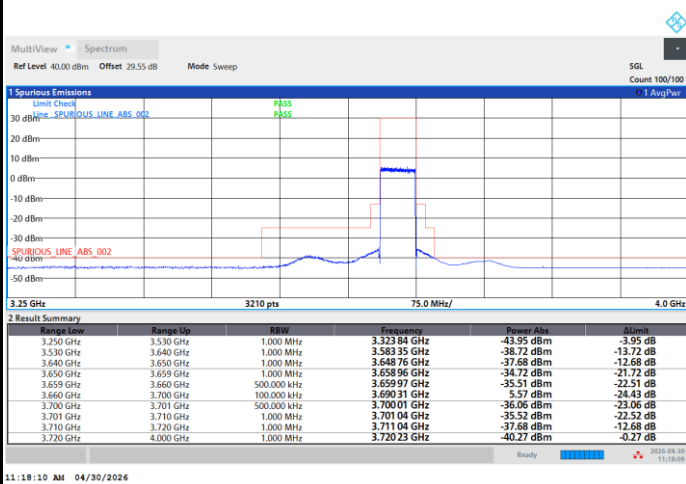


FR1 n48 / 40MHz / Highest Channel / MASK

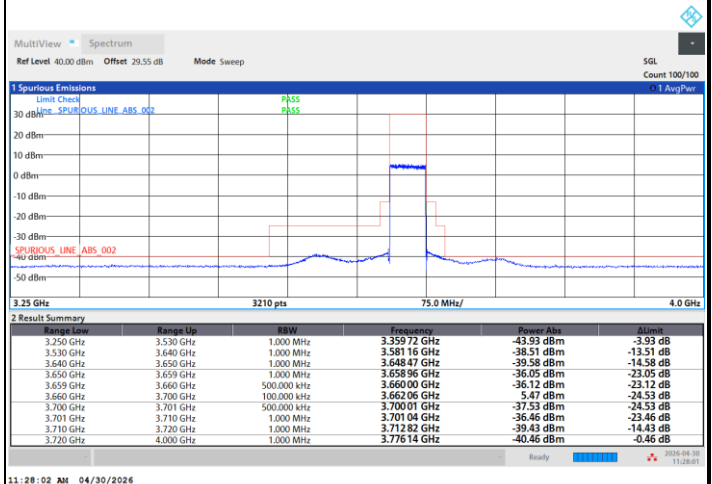
QPSK



64QAM

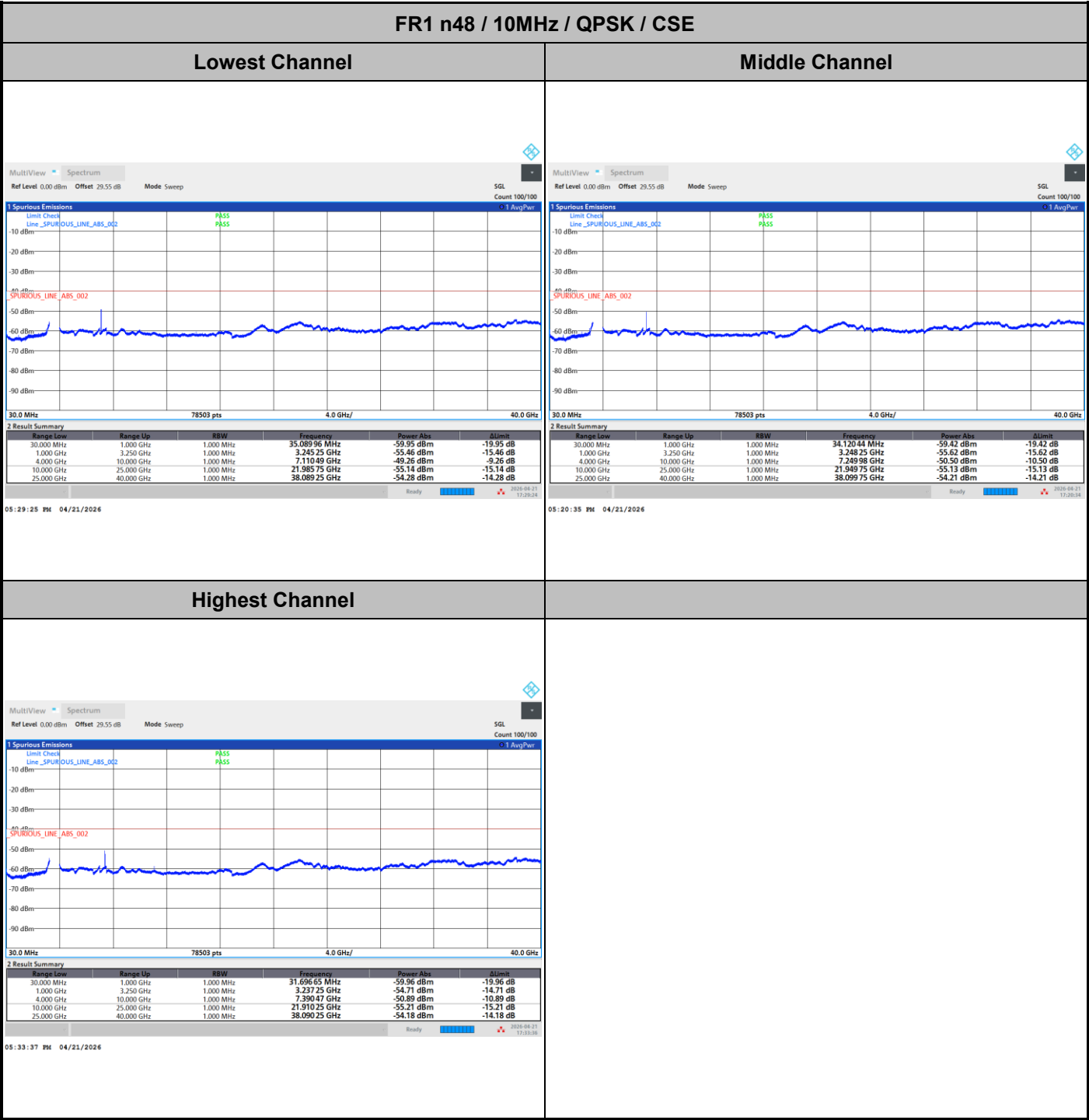


256QAM





Conducted Spurious Emission

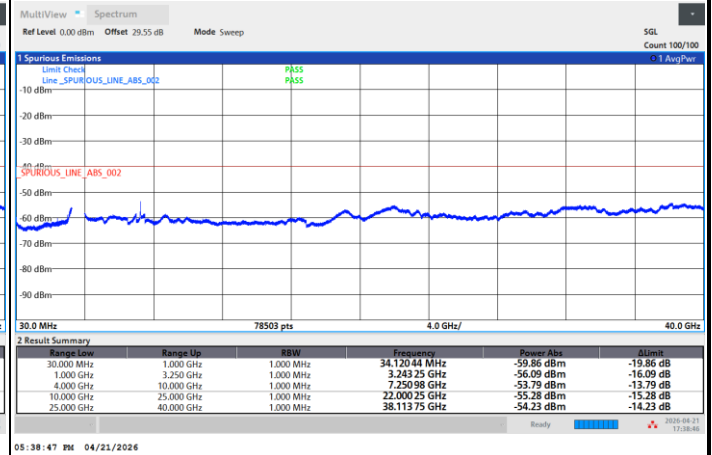
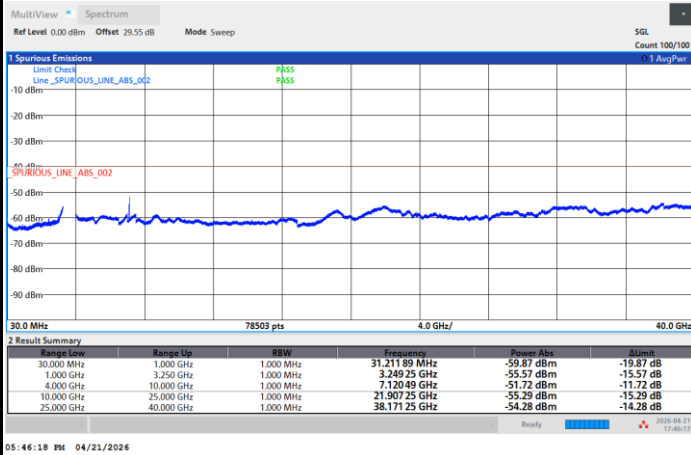




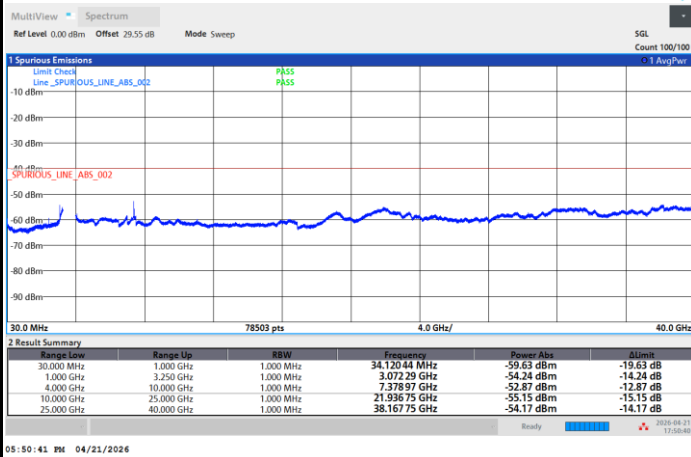
FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel



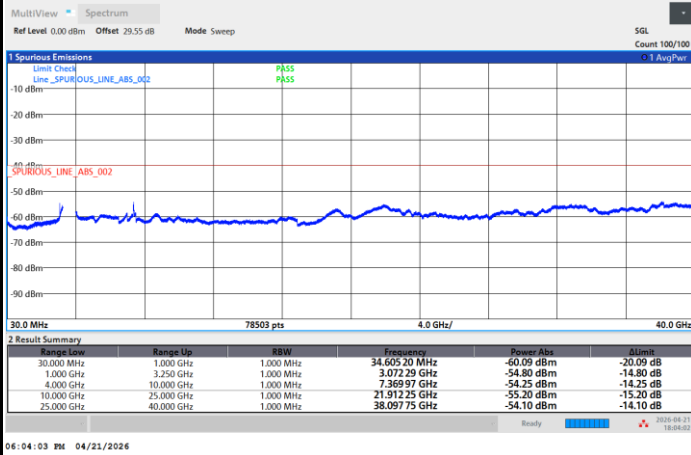
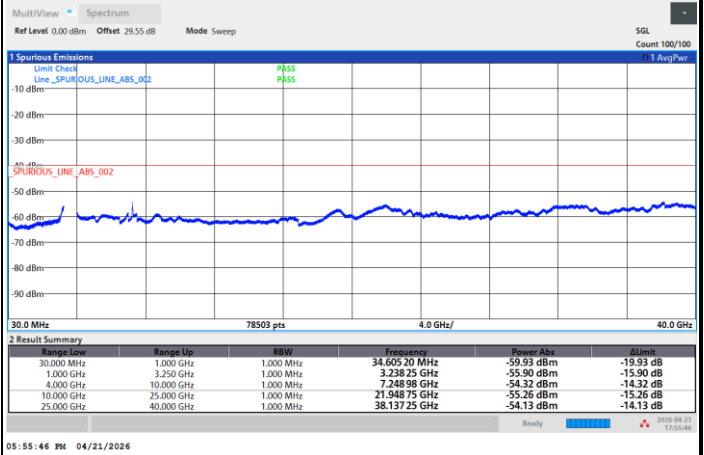
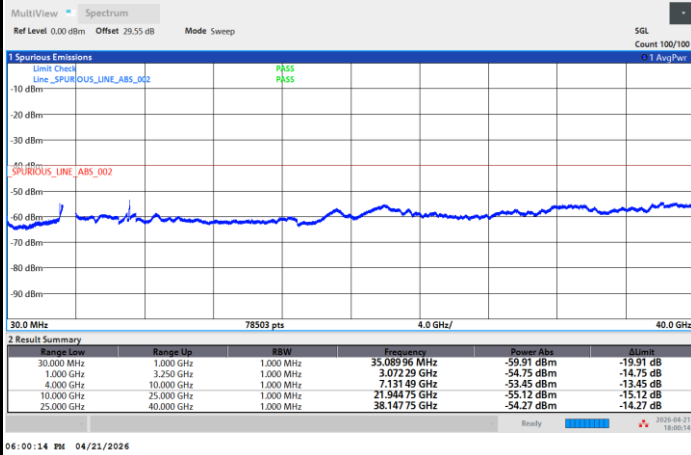


FR1 n48 / 30MHz / QPSK / CSE

Lowest Channel

Middle Channel

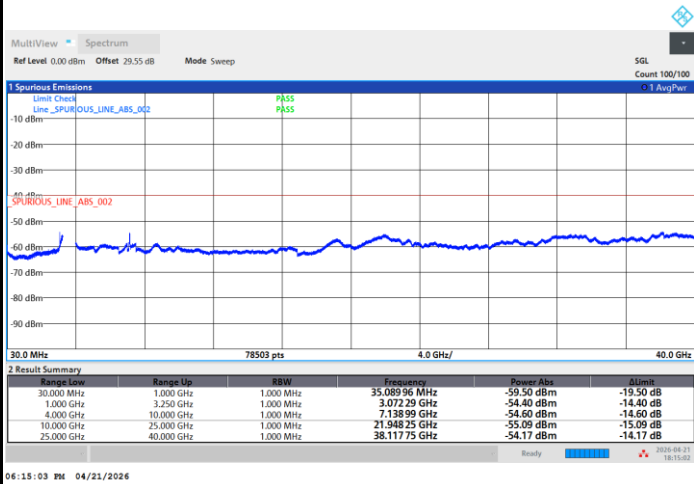
Highest Channel



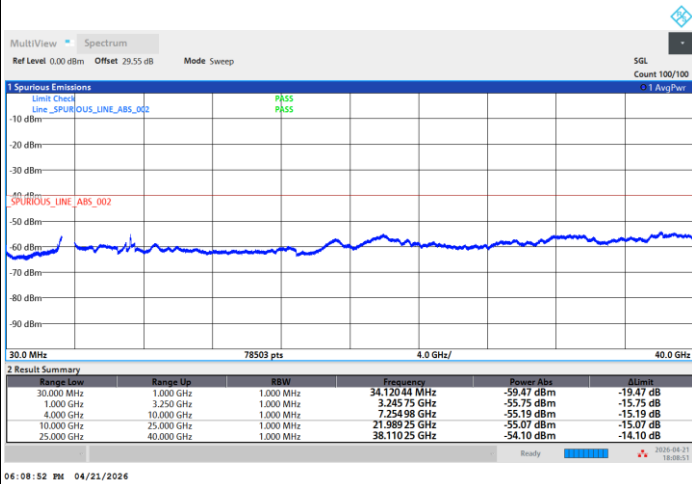


FR1 n48 / 40MHz / QPSK / CSE

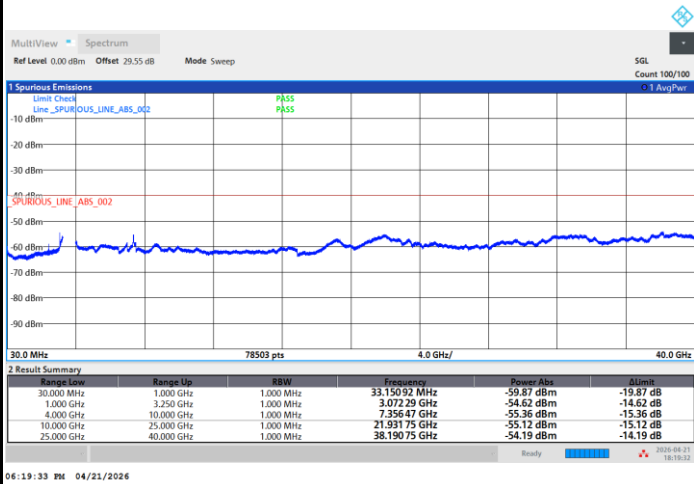
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.2759	PASS
40	Normal Voltage	0.0552	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.4414	
0	Normal Voltage	0.6069	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.1655	
-30	Normal Voltage	0.2759	
20	Maximum Voltage	0.1655	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.3310	

Note:

1. Normal Voltage = 115 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n48 Conducted Test Items

<MIMO ANT 4>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Lowest CH	23.88	-	21.46	-	19.63	-	16.56	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	23.85	23.82	21.45	20.43	19.65	19.73	16.63	16.57

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Lowest CH	42.37	-	39.95	-	38.12	-	35.05	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	42.34	42.31	39.94	38.92	38.14	38.22	35.12	35.06
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 12.47 dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Middle Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Middle CH	24.11	-	21.72	-	20.03	-	16.85	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	24.11	24.11	21.72	21.71	20.01	19.99	16.88	16.83

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Middle CH	42.60	-	40.21	-	38.52	-	35.34	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	42.60	42.60	40.21	40.20	38.50	38.48	35.37	35.32
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 12.47 dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Highest CH	23.66	-	20.82	-	18.79	-	16.94	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	23.55	23.64	20.83	20.94	19.15	19.06	16.95	16.90

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Highest CH	42.15	-	39.31	-	37.28	-	35.43	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	42.04	42.13	39.32	39.43	37.64	37.55	35.44	35.39
Limit	47dBm/10MHz							
Result	PASS							

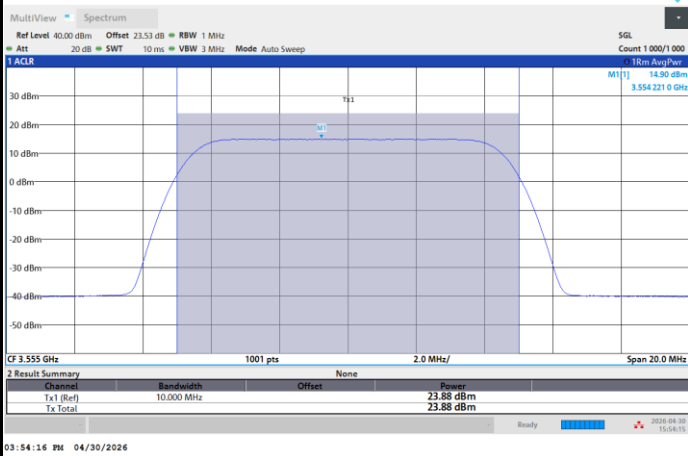
Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 12.47 dBi MIMO antenna gain.

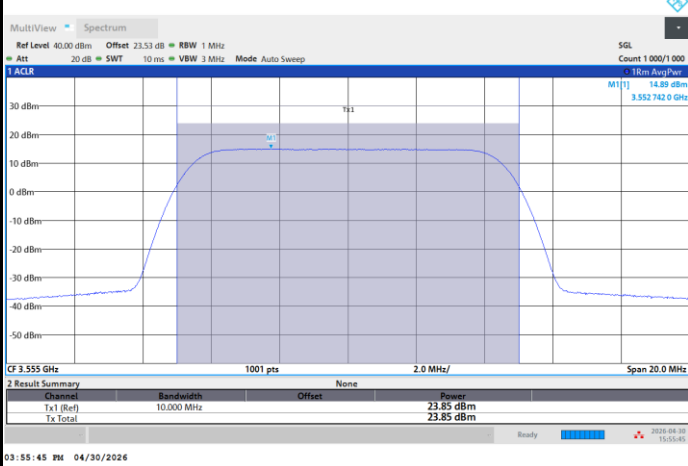


FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

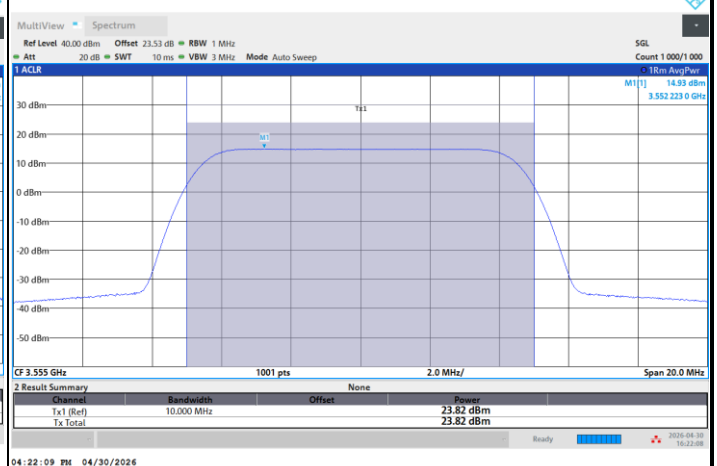
QPSK



64QAM



256QAM



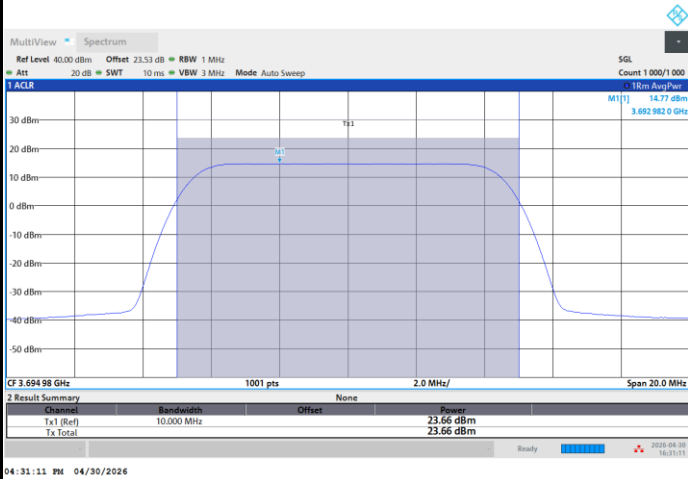


FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)																									
QPSK																									
MultiView Spectrum Ref Level 40.00 dBm Offset 23.53 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz Mode Auto Sweep SGL Count 1 000/1 000 1 ACLR M1[1] 15.23 dBm 3.623 591 0 GHz CF 3.624 99 GHz 1001 pts 2.0 MHz/ Span 20.0 MHz 2 Result Summary <table><tr><th>Channel</th><th>Bandwidth</th><th>Offset</th><th>Power</th></tr><tr><td>Tx1 (Ref)</td><td>10.000 MHz</td><td></td><td>24.11 dBm</td></tr><tr><td>Tx Total</td><td></td><td></td><td>24.11 dBm</td></tr></table> Ready 2026-04-30 16:28:08 04:24:29 PM 04/30/2026	Channel	Bandwidth	Offset	Power	Tx1 (Ref)	10.000 MHz		24.11 dBm	Tx Total			24.11 dBm													
Channel	Bandwidth	Offset	Power																						
Tx1 (Ref)	10.000 MHz		24.11 dBm																						
Tx Total			24.11 dBm																						
64QAM	256QAM																								
MultiView Spectrum Ref Level 40.00 dBm Offset 23.53 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz Mode Auto Sweep SGL Count 1 000/1 000 1 ACLR M1[1] 15.21 dBm 3.623 872 0 GHz CF 3.624 99 GHz 1001 pts 2.0 MHz/ Span 20.0 MHz 2 Result Summary <table><tr><th>Channel</th><th>Bandwidth</th><th>Offset</th><th>Power</th></tr><tr><td>Tx1 (Ref)</td><td>10.000 MHz</td><td></td><td>24.11 dBm</td></tr><tr><td>Tx Total</td><td></td><td></td><td>24.11 dBm</td></tr></table> Ready 2026-04-30 16:27:03 04:27:02 PM 04/30/2026	Channel	Bandwidth	Offset	Power	Tx1 (Ref)	10.000 MHz		24.11 dBm	Tx Total			24.11 dBm	MultiView Spectrum Ref Level 40.00 dBm Offset 23.53 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz Mode Auto Sweep SGL Count 1 000/1 000 1 ACLR M1[1] 15.22 dBm 3.621 953 0 GHz CF 3.624 99 GHz 1001 pts 2.0 MHz/ Span 20.0 MHz 2 Result Summary <table><tr><th>Channel</th><th>Bandwidth</th><th>Offset</th><th>Power</th></tr><tr><td>Tx1 (Ref)</td><td>10.000 MHz</td><td></td><td>24.11 dBm</td></tr><tr><td>Tx Total</td><td></td><td></td><td>24.11 dBm</td></tr></table> Ready 2026-04-30 16:29:17 04:29:17 PM 04/30/2026	Channel	Bandwidth	Offset	Power	Tx1 (Ref)	10.000 MHz		24.11 dBm	Tx Total			24.11 dBm
Channel	Bandwidth	Offset	Power																						
Tx1 (Ref)	10.000 MHz		24.11 dBm																						
Tx Total			24.11 dBm																						
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Tx1 (Ref)	10.000 MHz		24.11 dBm																						
Tx Total			24.11 dBm																						

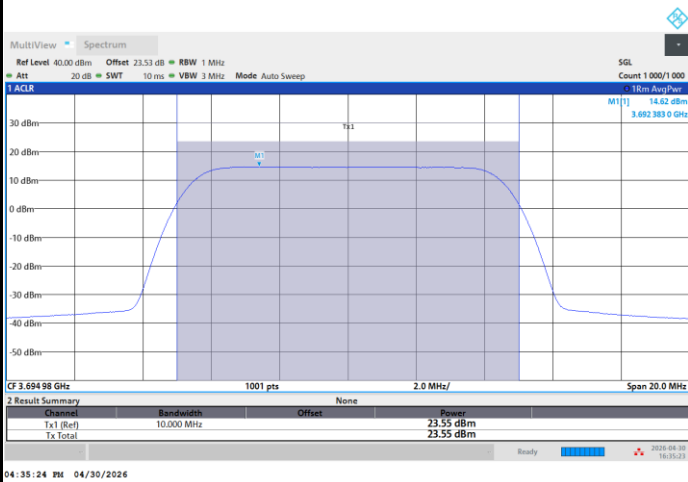


FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

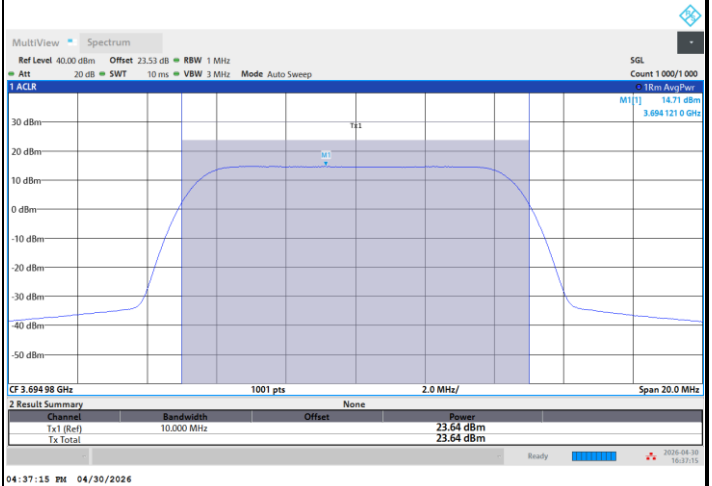
QPSK



64QAM



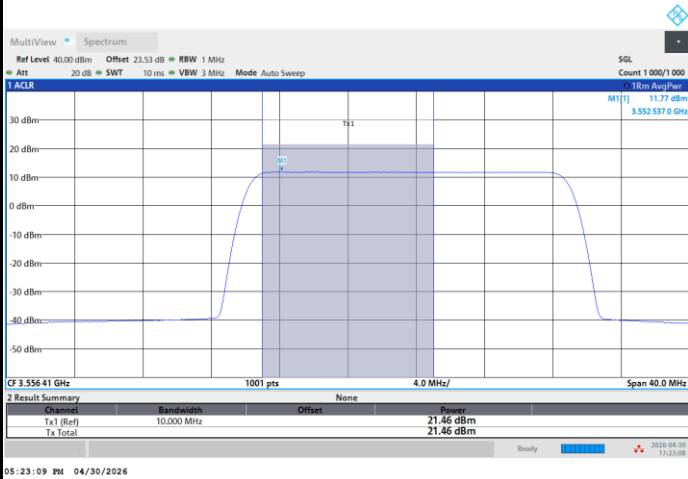
256QAM



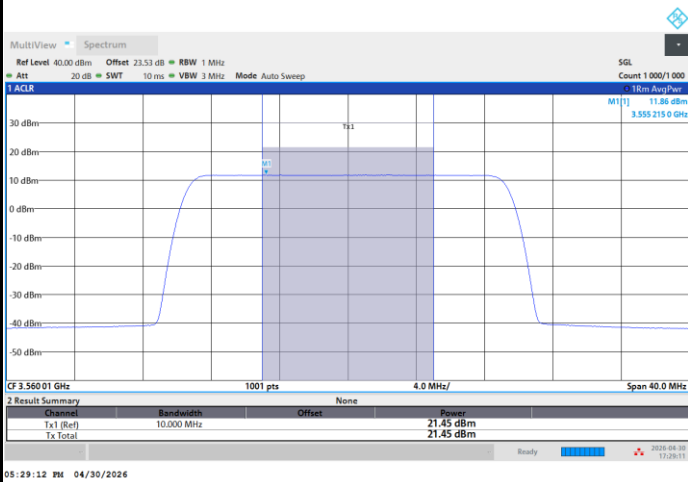


FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



64QAM



256QAM

