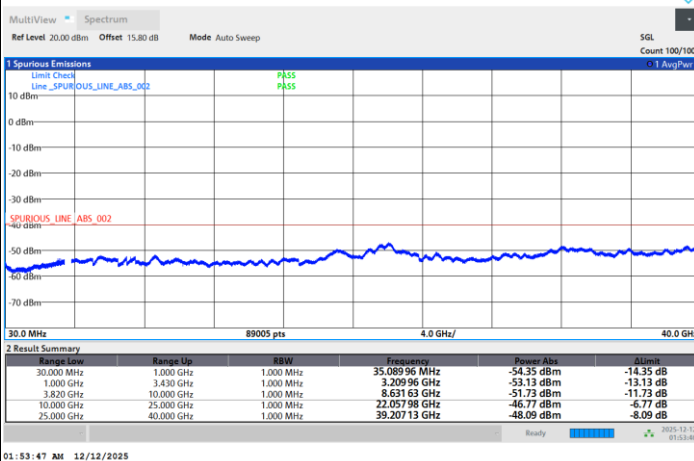
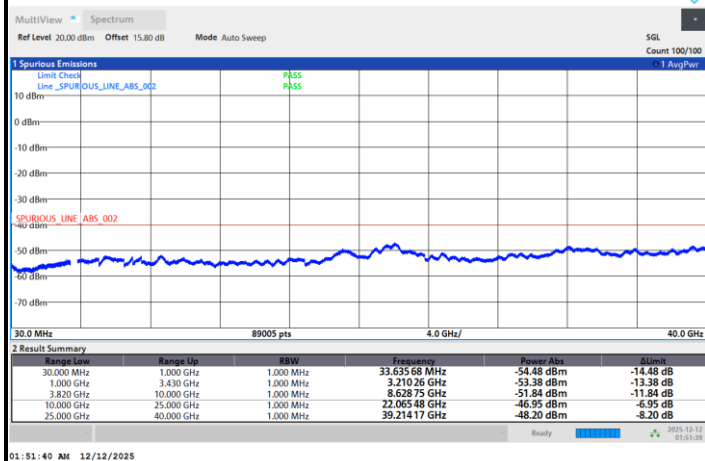




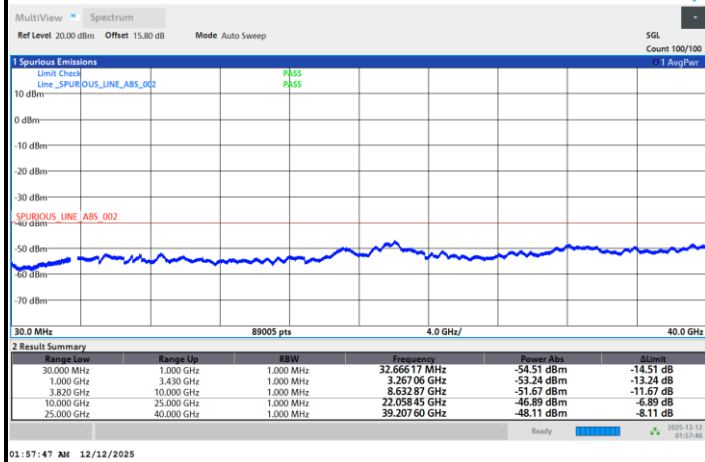
FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel



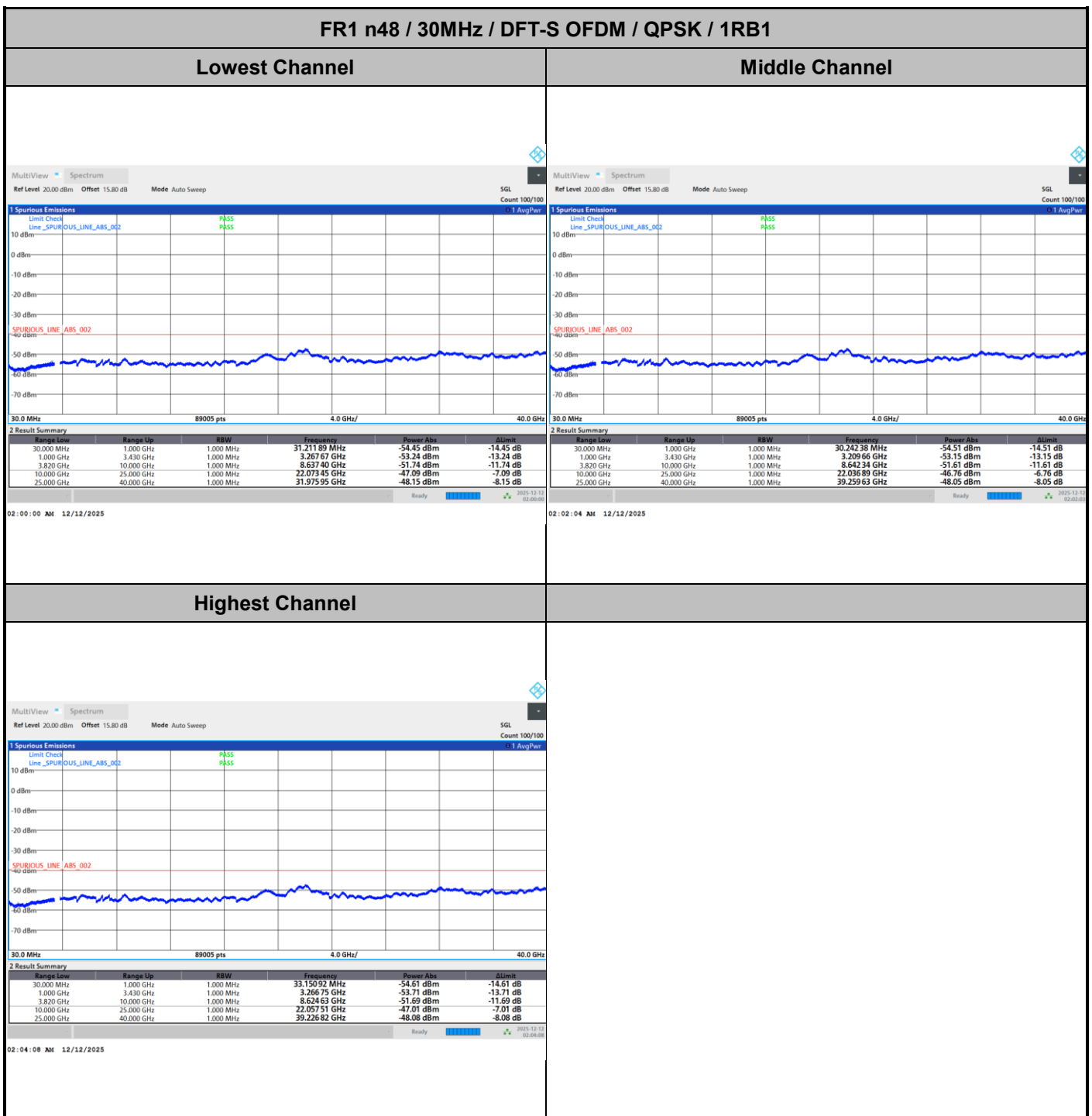


FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel

Highest Channel



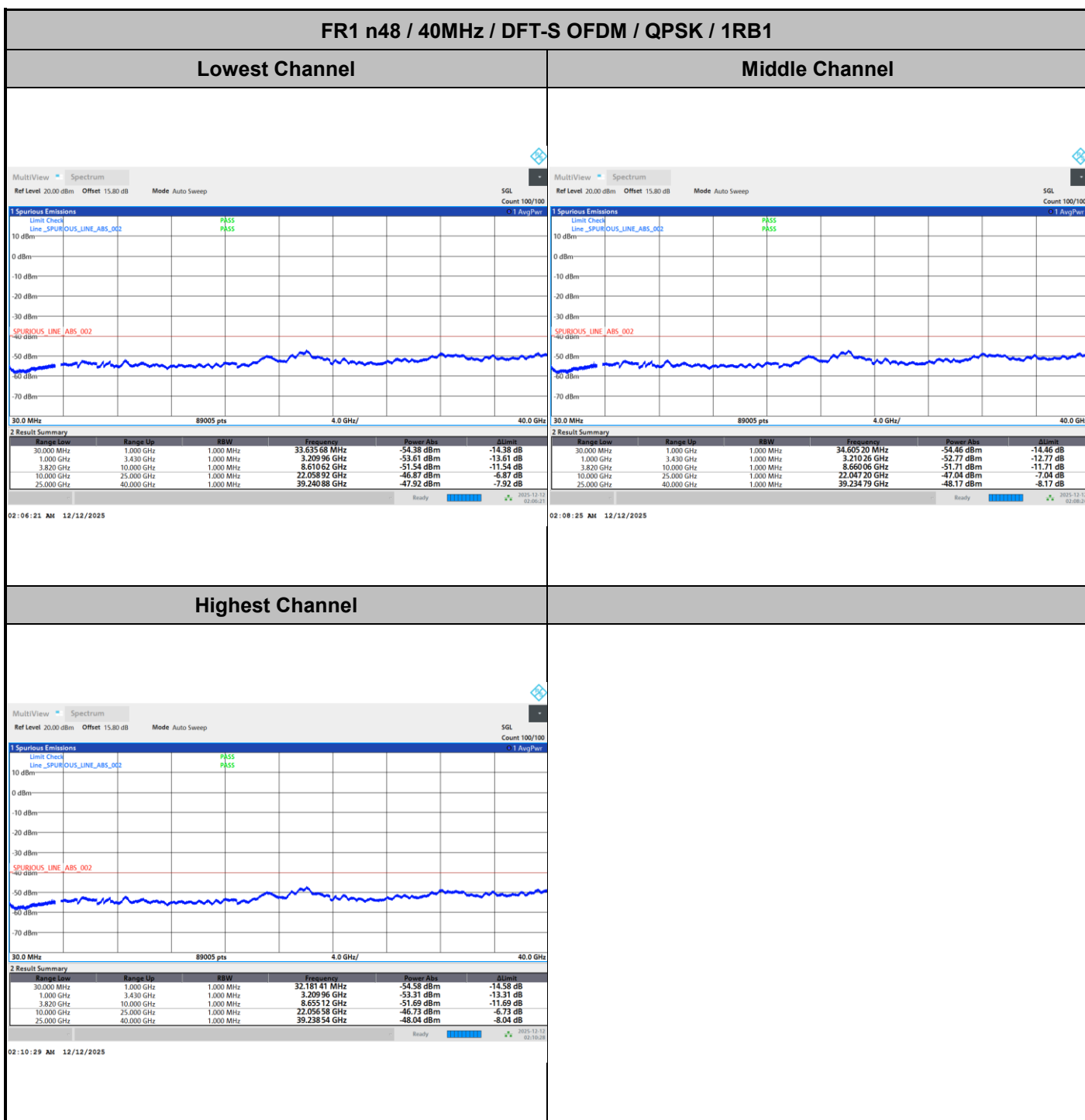


FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel

Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0008	3	Yes	PASS
40	Normal Voltage	0.0003	-1.2	Yes	
30	Normal Voltage	0.0004	-1.3	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0015	5.5	Yes	
0	Normal Voltage	0.0011	3.9	Yes	
-10	Normal Voltage	0.0031	11.1	Yes	
-20	Normal Voltage	0.0003	1.1	Yes	
-30	Normal Voltage	0.0033	12.1	Yes	
20	Maximum Voltage	0.0024	8.7	Yes	
20	Normal Voltage	0.0032	11.7	Yes	
20	Minimum Voltage	0.0050	18.2	Yes	

Note:

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

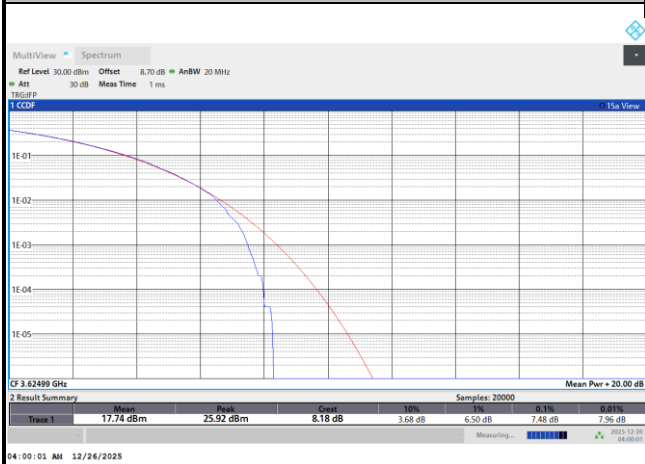
**FR1 n48****<MIMO Mode>****MIMO <Ant. 6+1> (Ant. 6)****Peak-to-Average Ratio**

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	7.48	7.76	8.22	8.72	PASS

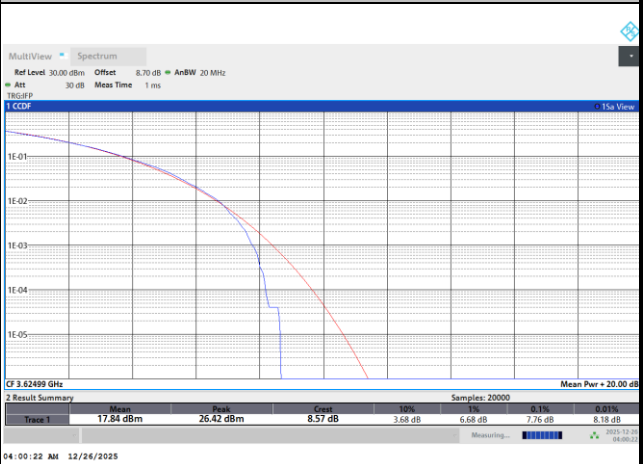


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

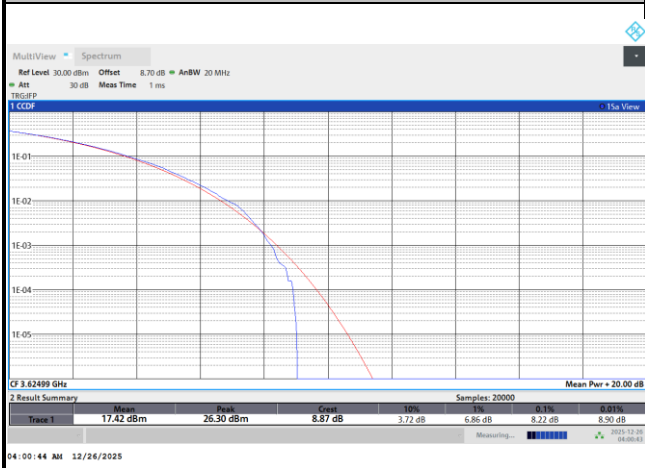
QPSK



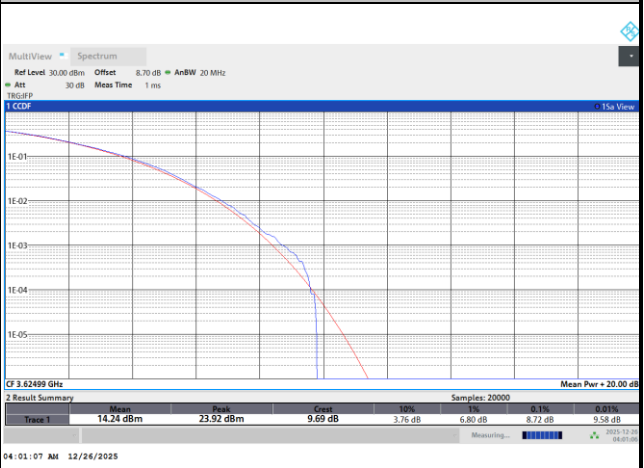
16QAM



64QAM



256QAM



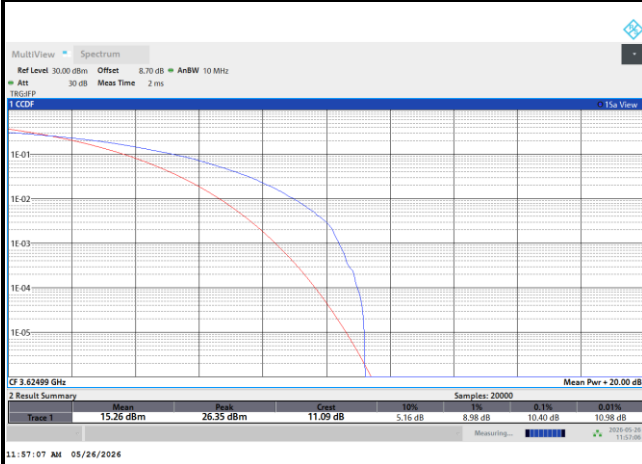


Mode	FR1 n48 / 10MHz / CP OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	10.40	13.50	PASS
Mode	FR1 n48 / 15MHz / CP OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	7.18	7.26	PASS
Mode	FR1 n48 / 30MHz / CP OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	7.82	7.84	PASS
Mode	FR1 n48 / 40MHz / CP OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	7.84	7.86	PASS

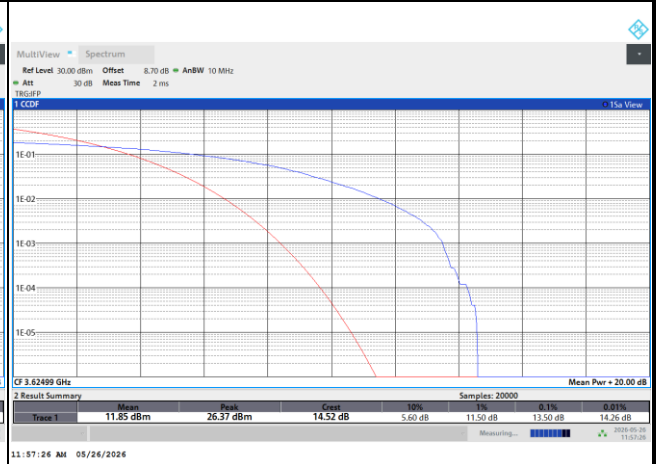


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK

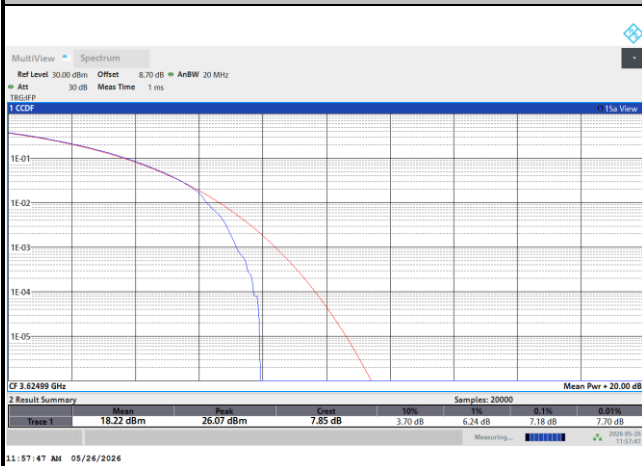


16QAM

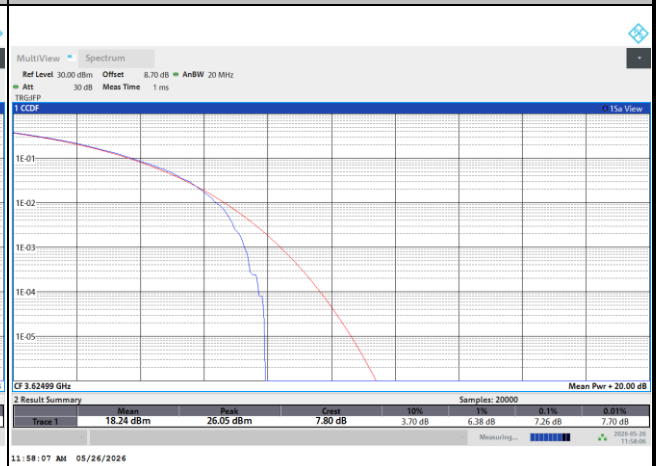


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK

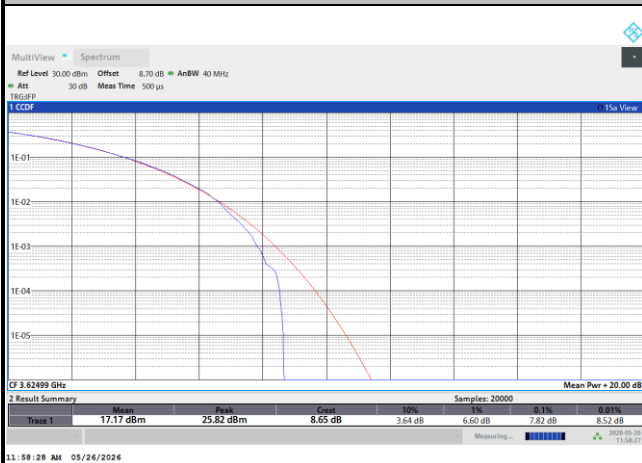


16QAM

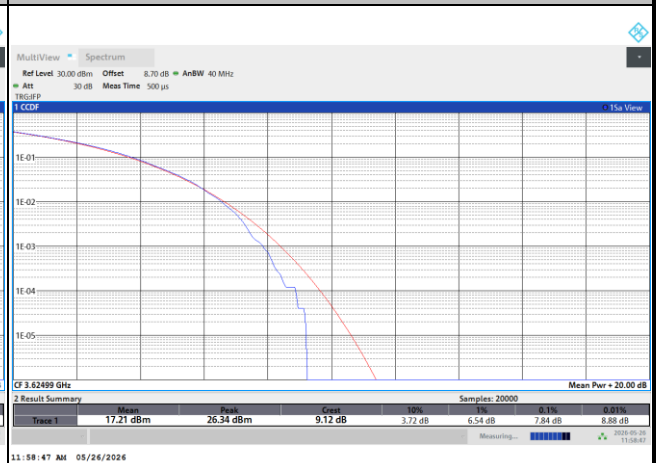


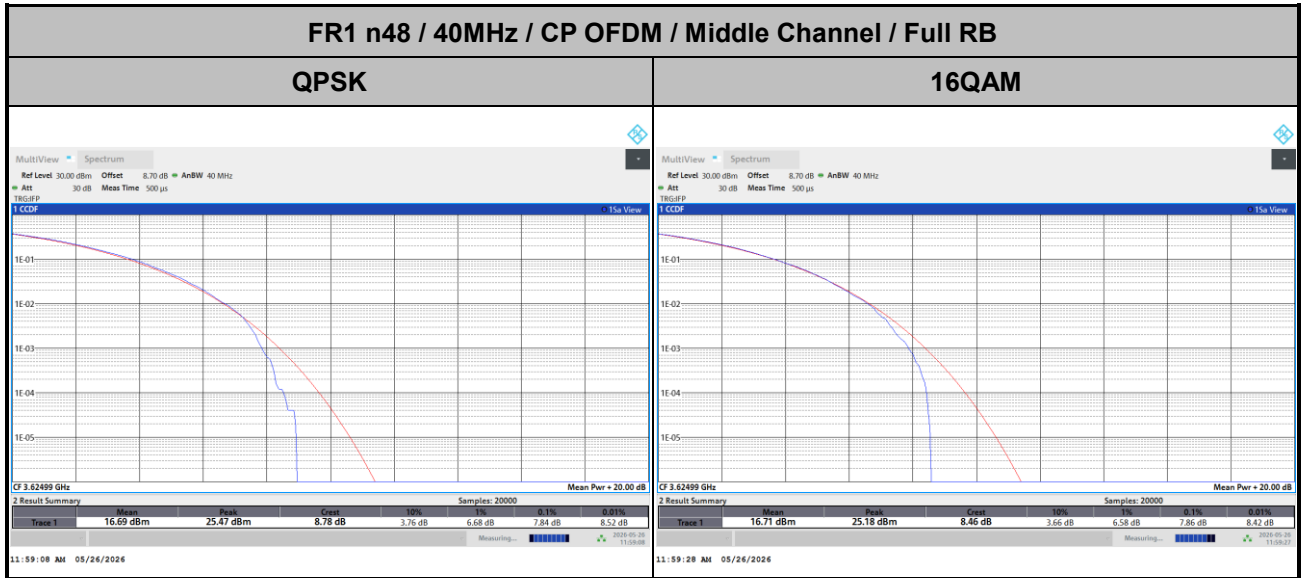
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



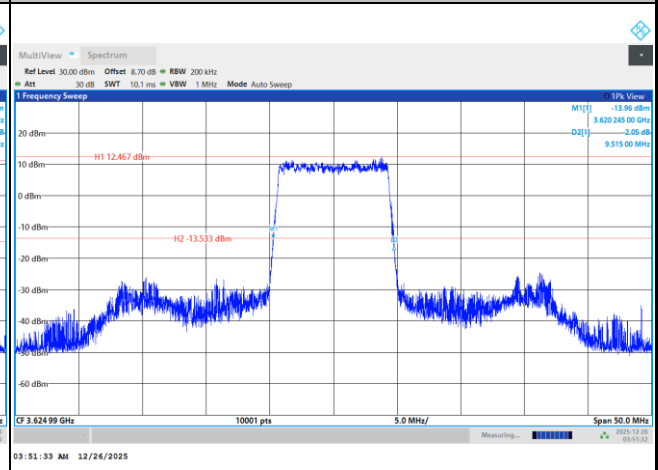


**26dB Bandwidth**

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.47	9.51	14.70	14.57	19.63	19.62	-	-
BW	30MHz		40MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	30.35	30.42	40.48	40.46				

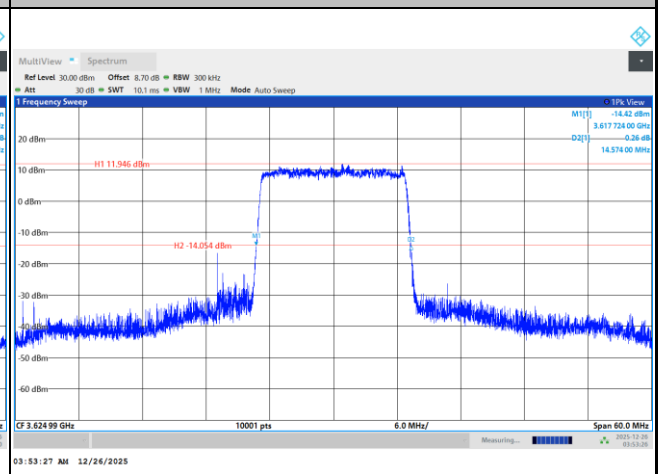


16QAM



FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

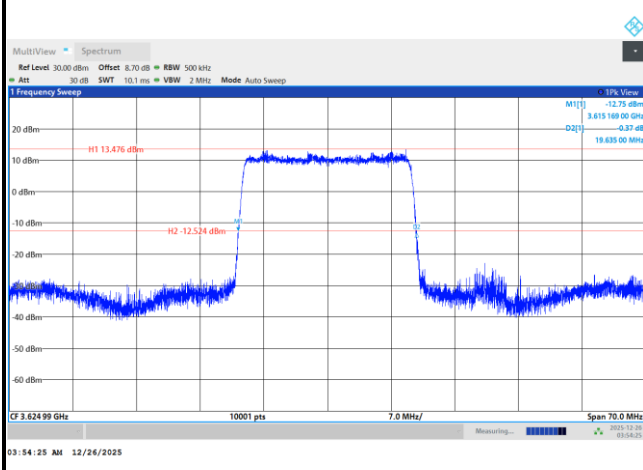
16QAM



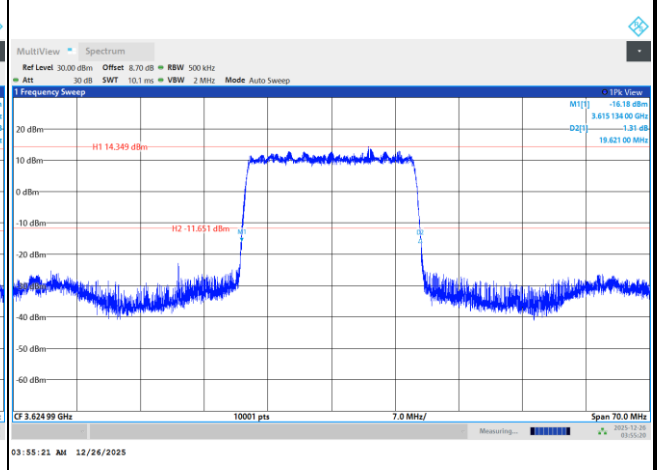


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK

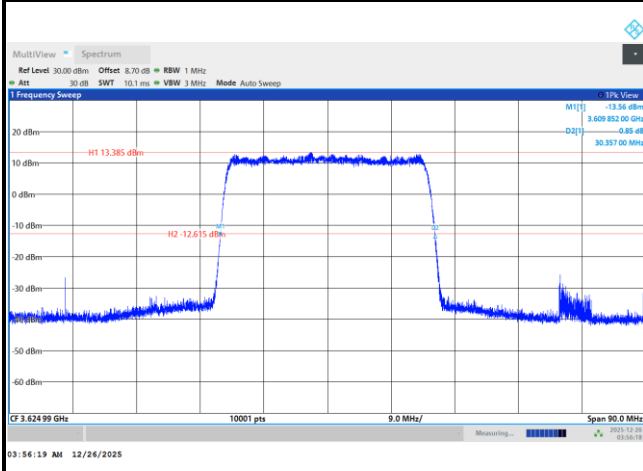


16QAM

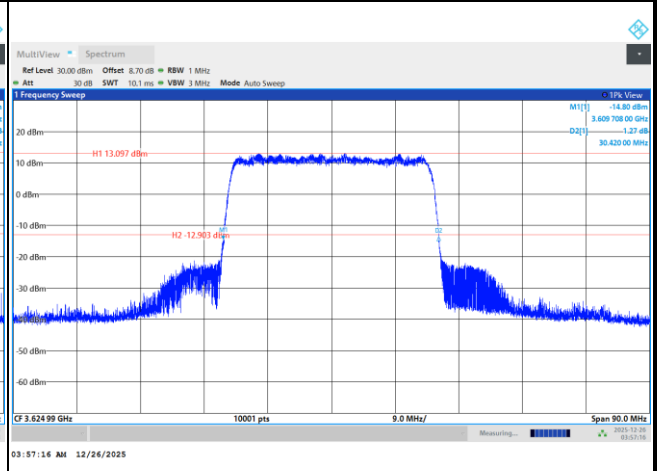


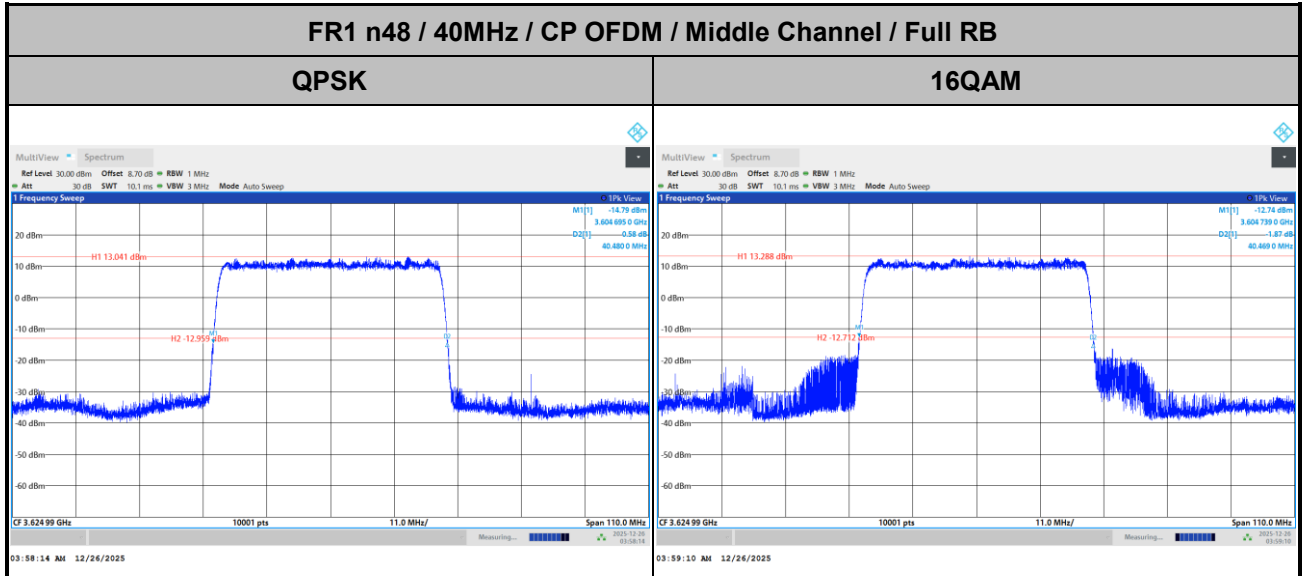
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM





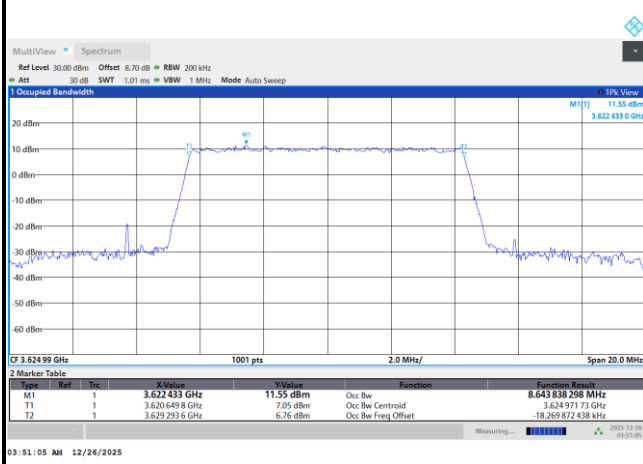
**Occupied Bandwidth**

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.64	8.64	13.63	13.61	18.29	18.39	28.15	28.15
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	38.00	38.00						

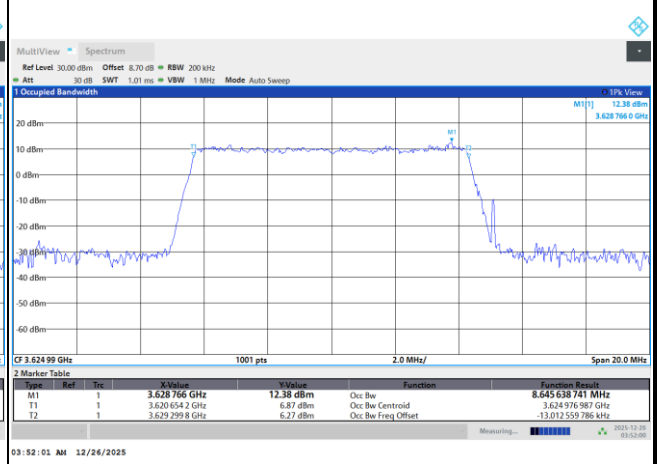


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK

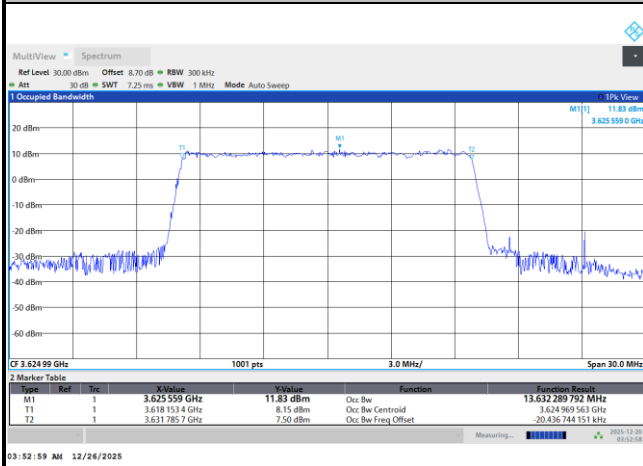


16QAM

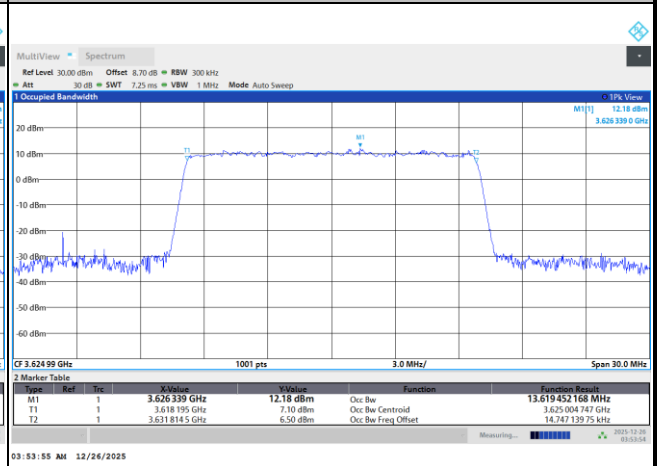


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



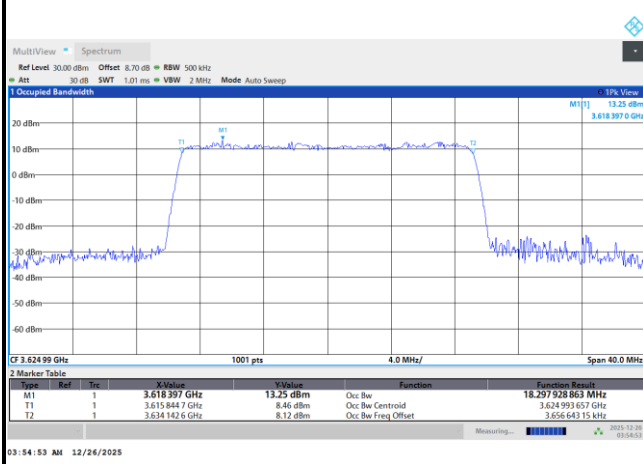
16QAM



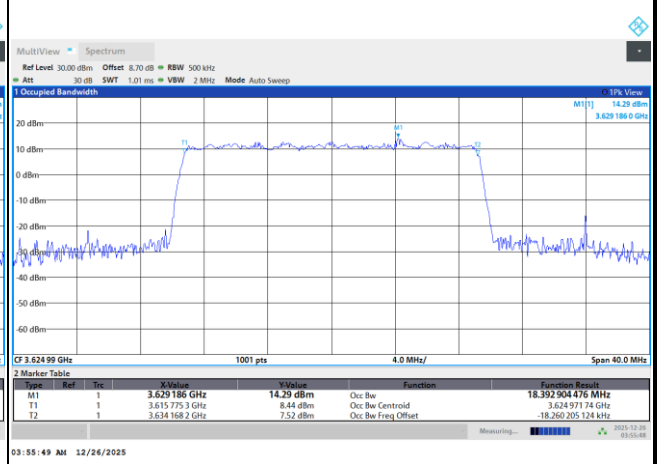


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK

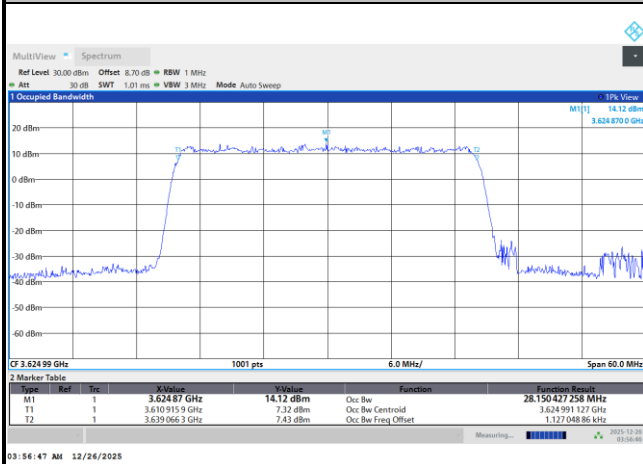


16QAM

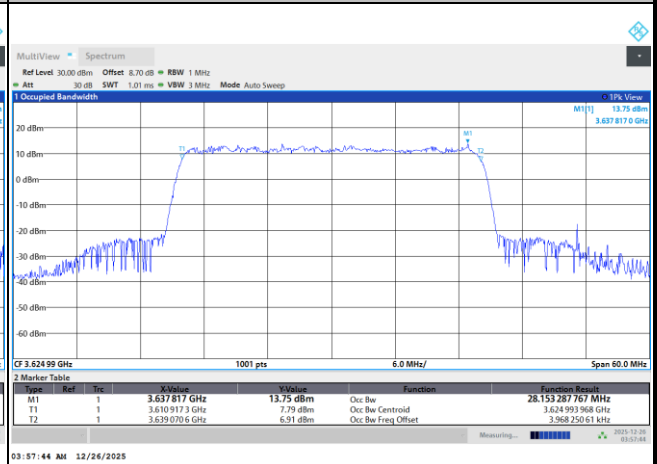


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM

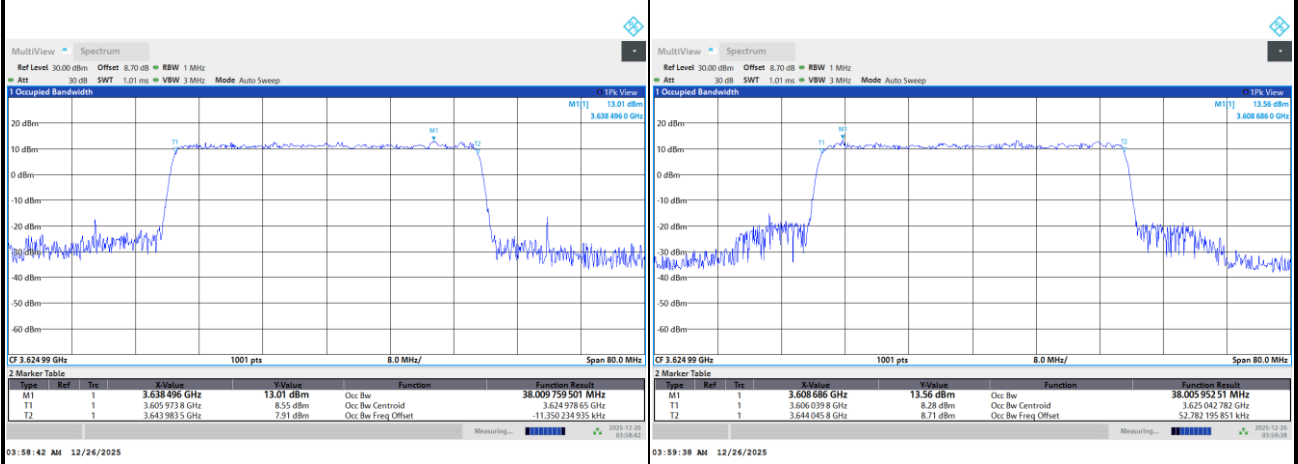




FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

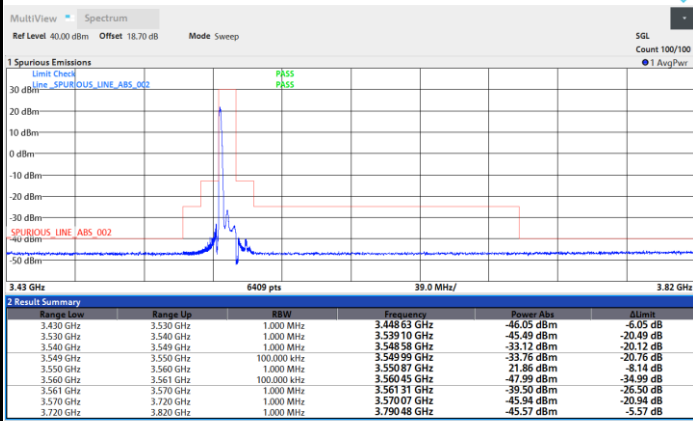
QPSK

16QAM

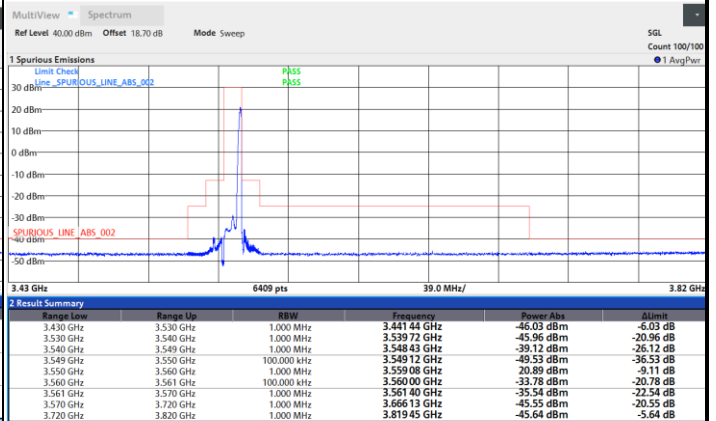


**Unwanted Emission (MASK)**

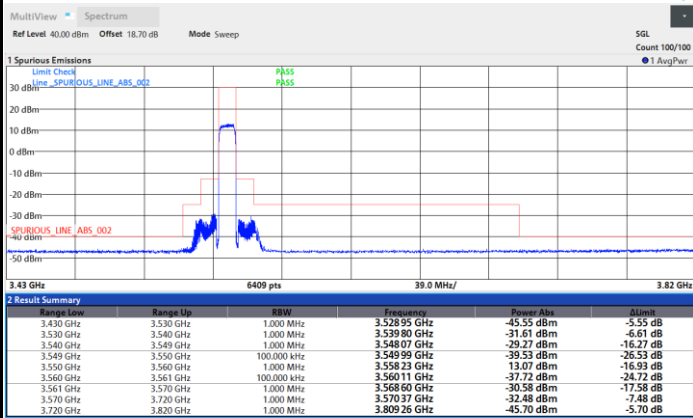
FR1 n48 / 10MHz / CP OFDM / QPSK

Lowest Channel**1RB0****1RBmax**

05:18:12 PM 11/17/2025



04:52:34 PM 11/17/2025

Full RB

04:53:18 PM 11/17/2025

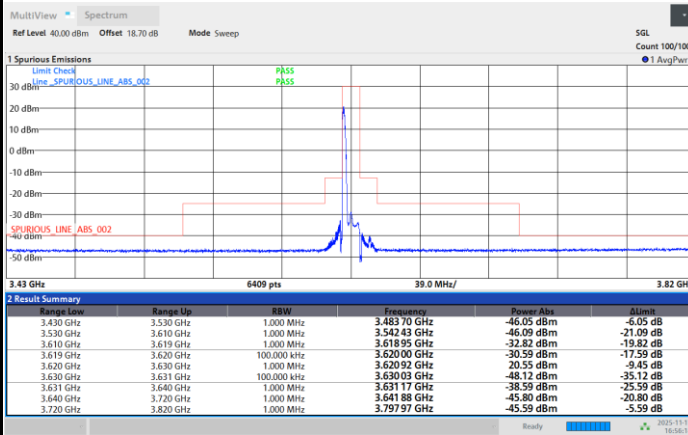


FR1 n48 / 10MHz / CP OFDM / QPSK

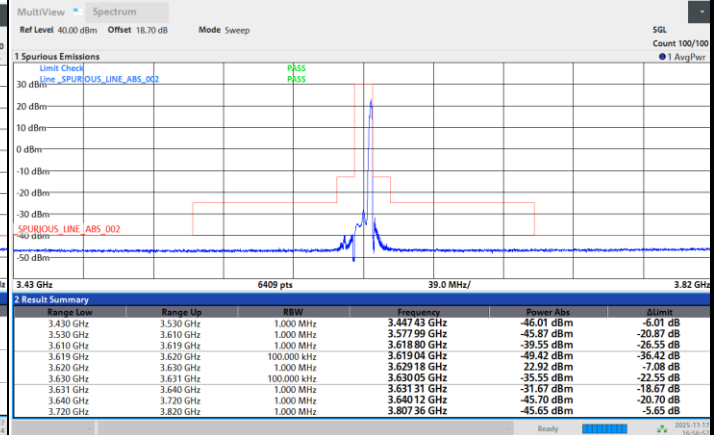
Middle Channel

1RB0

1RBmax

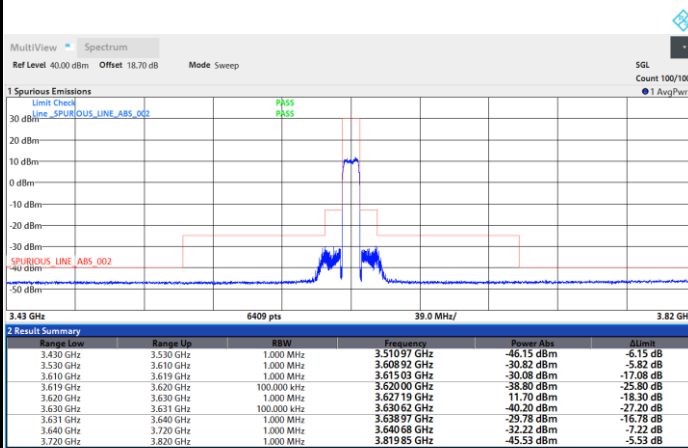


04:56:14 PM 11/17/2025



04:56:57 PM 11/17/2025

Full RB



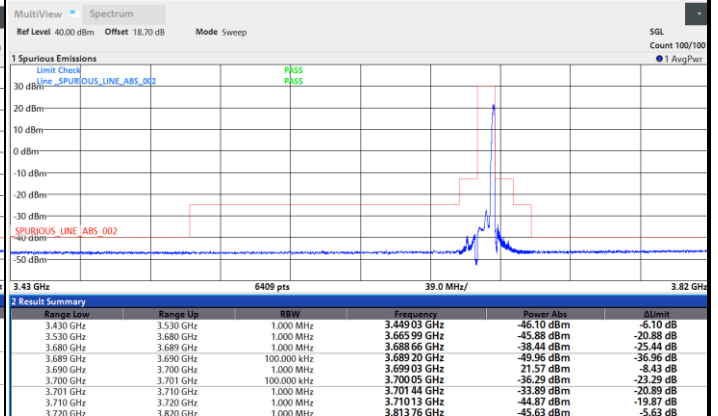
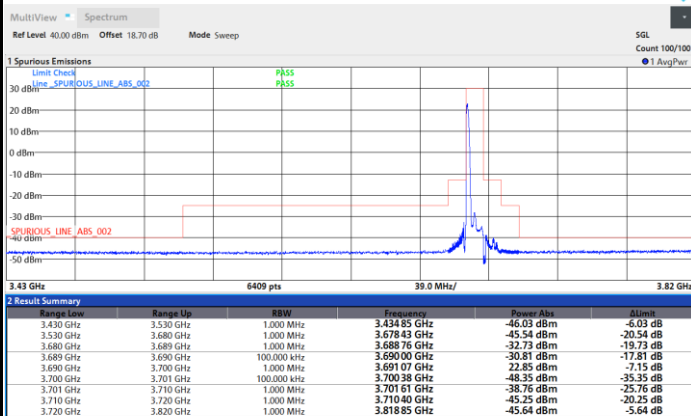
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FR1 n48 / 10MHz / CP OFDM / QPSK

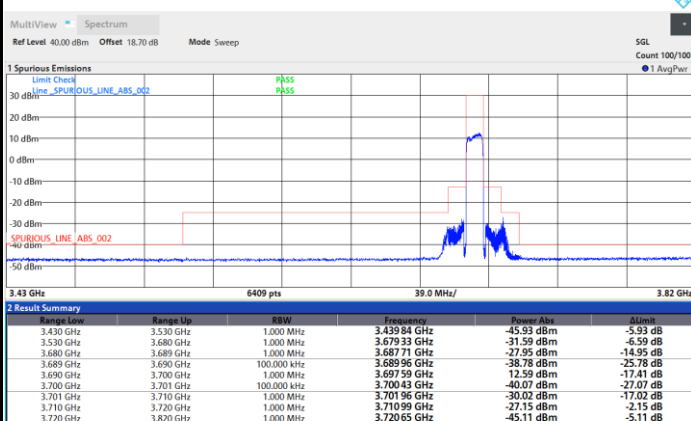
Highest Channel

1RB0

1RBmax



Full RB

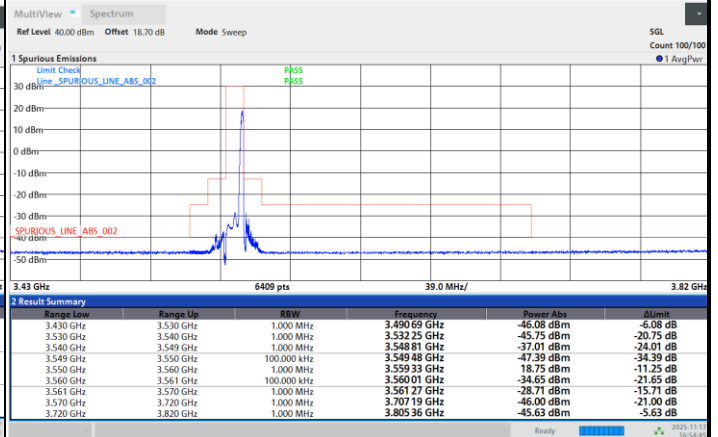
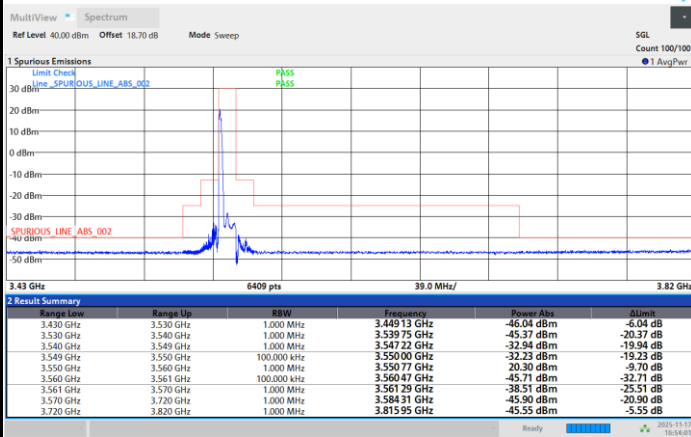


FR1 n48 / 10MHz / CP OFDM / 16QAM

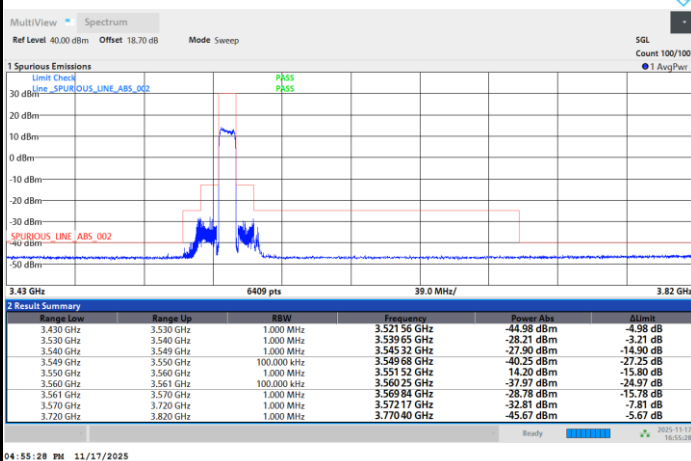
Lowest Channel

1RB0

1RBmax



Full RB



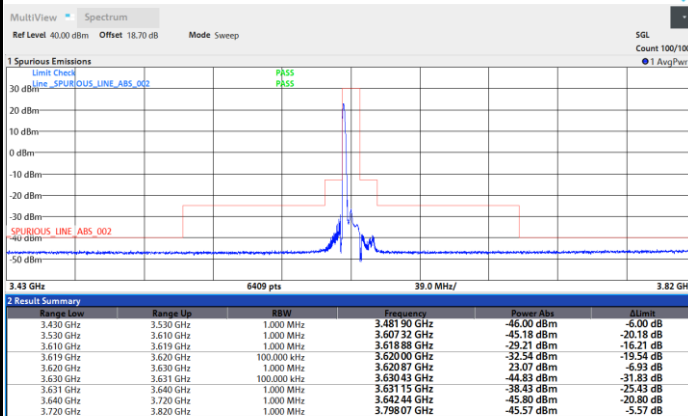


FR1 n48 / 10MHz / CP OFDM / 16QAM

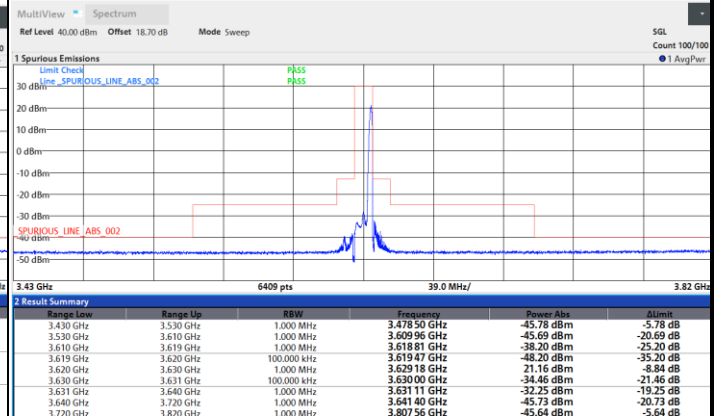
Middle Channel

1RB0

1RBmax

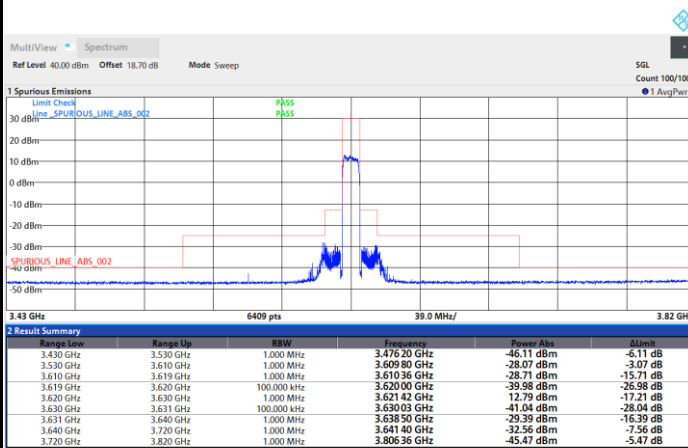


04:58:25 PM 11/17/2025



04:59:08 PM 11/17/2025

Full RB



04:59:51 PM 11/17/2025

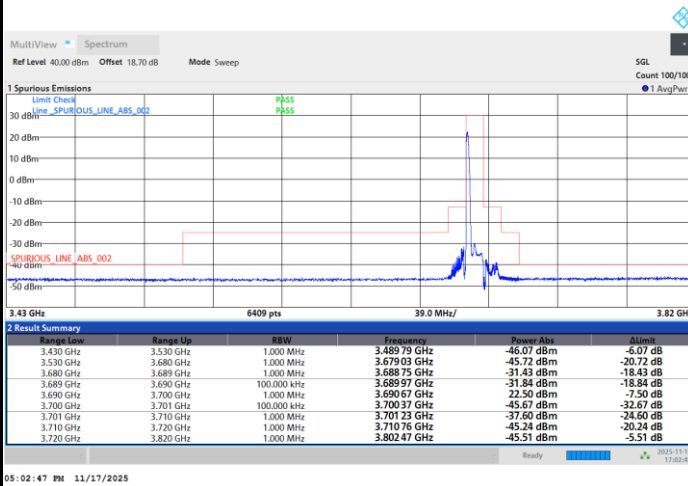


FR1 n48 / 10MHz / CP OFDM / 16QAM

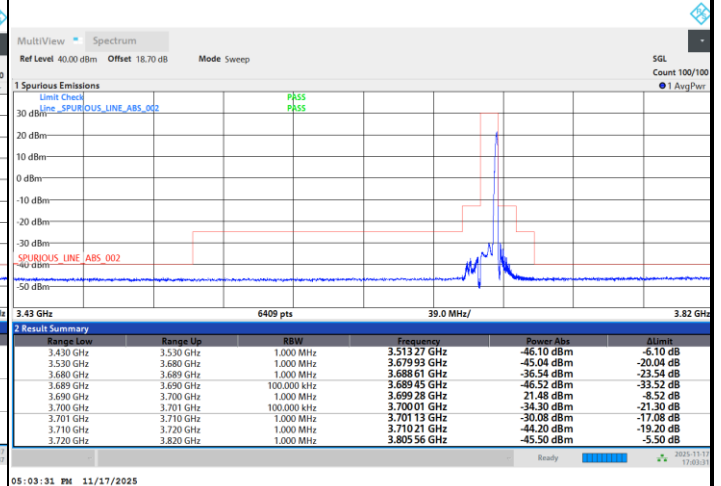
Highest Channel

1RB0

1RBmax

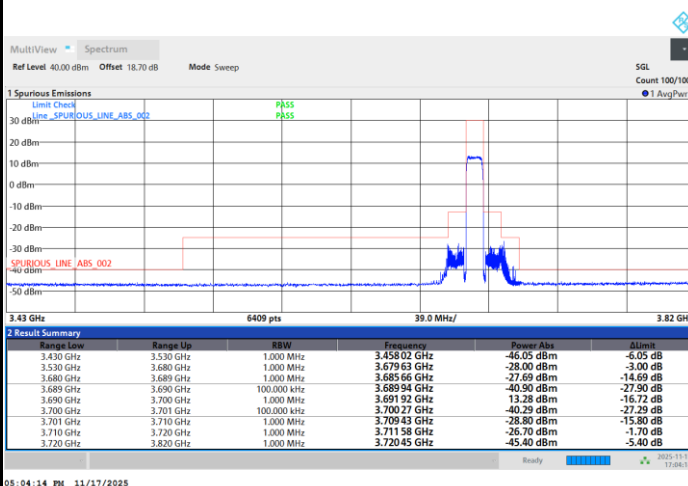


05:02:47 PM 11/17/2025



05:03:31 PM 11/17/2025

Full RB



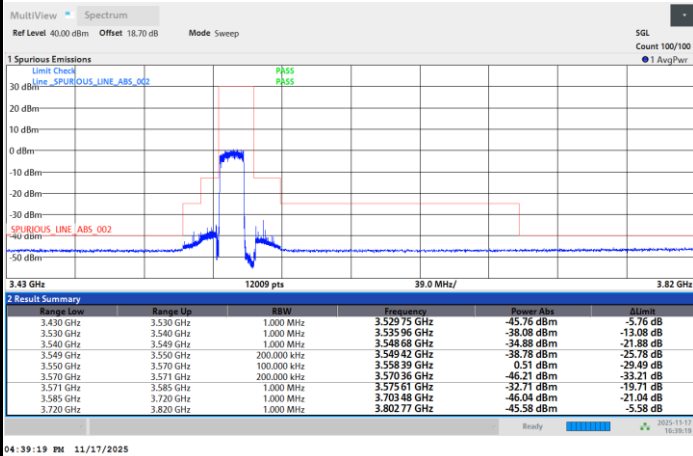
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FR1 n48 / 15MHz / CP OFDM / QPSK

Lowest Channel

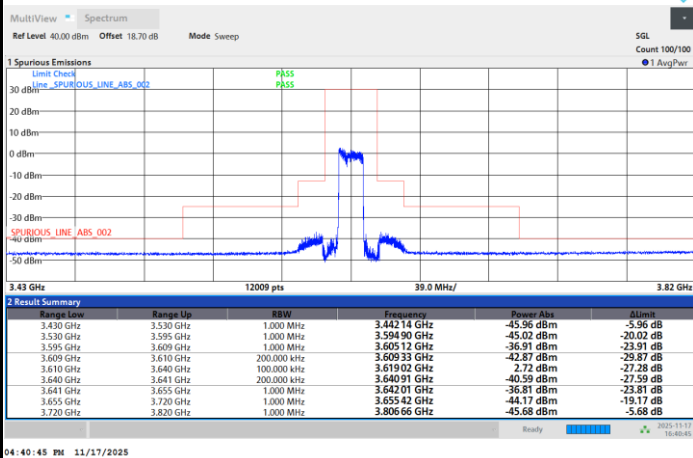
Full RB



FR1 n48 / 15MHz / CP OFDM / QPSK

Middle Channel

Full RB

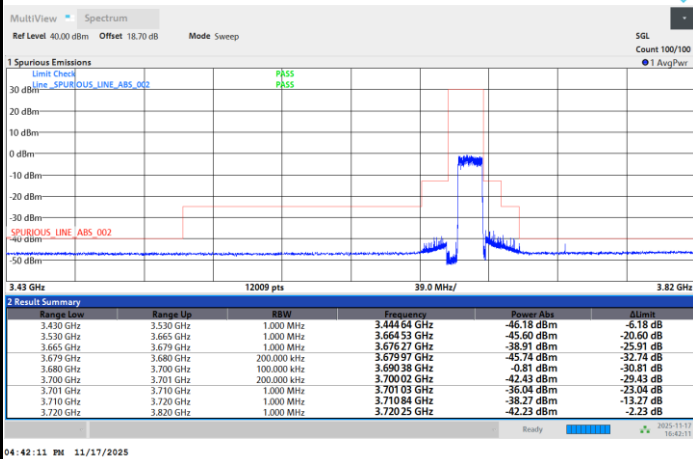




FR1 n48 / 15MHz / CP OFDM / QPSK

Highest Channel

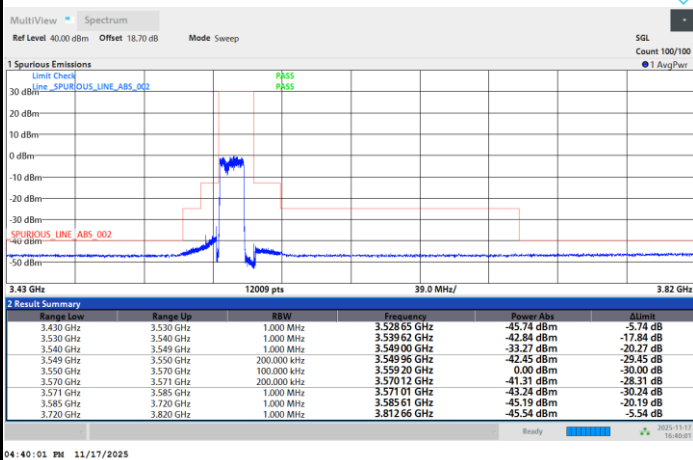
Full RB



FR1 n48 / 15MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

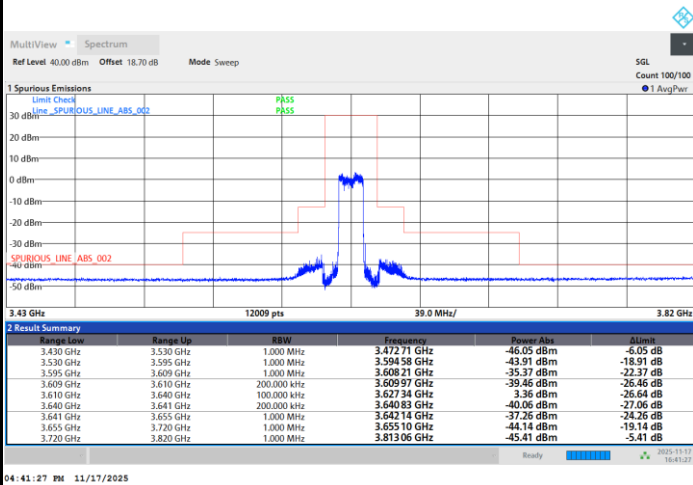




FR1 n48 / 15MHz / CP OFDM / 16QAM

Middle Channel

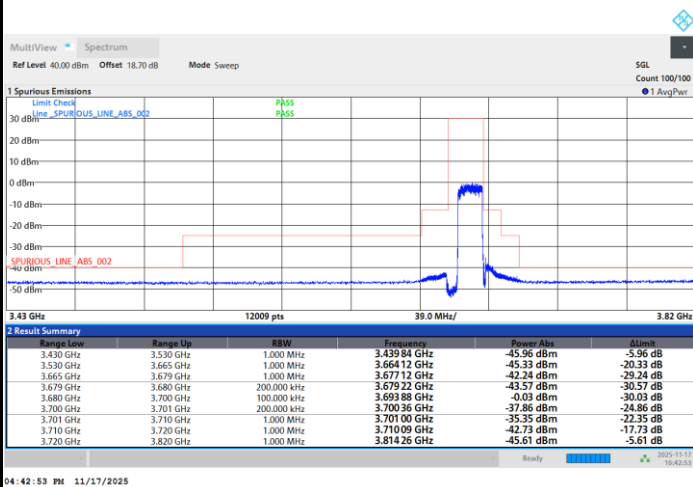
Full RB



FR1 n48 / 15MHz / CP OFDM / 16QAM

Highest Channel

Full RB

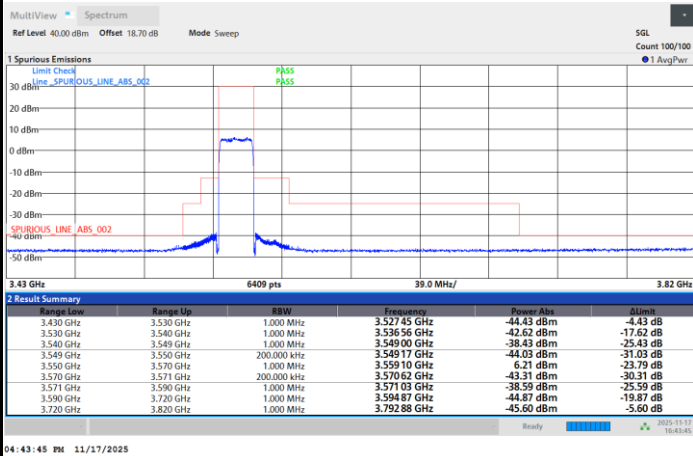




FR1 n48 / 20MHz / CP OFDM / QPSK

Lowest Channel

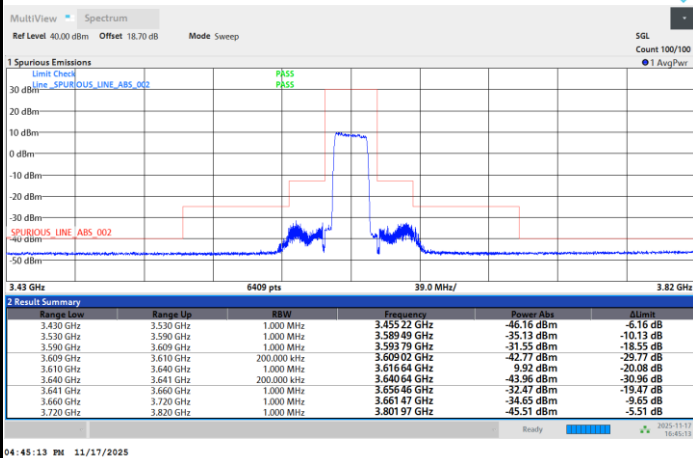
Full RB



FR1 n48 / 20MHz / CP OFDM / QPSK

Middle Channel

Full RB

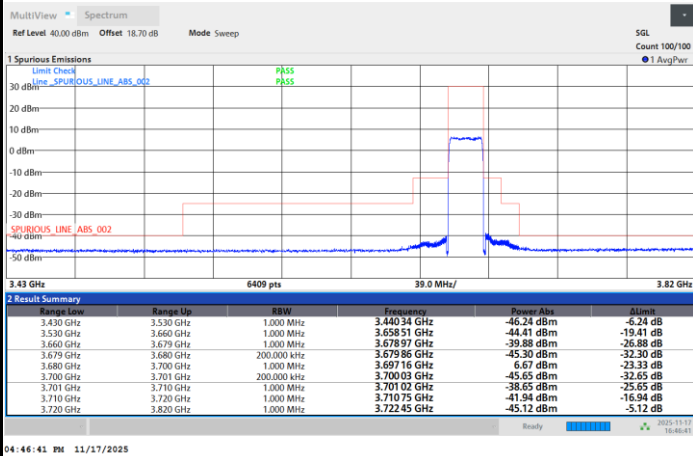




FR1 n48 / 20MHz / CP OFDM / QPSK

Highest Channel

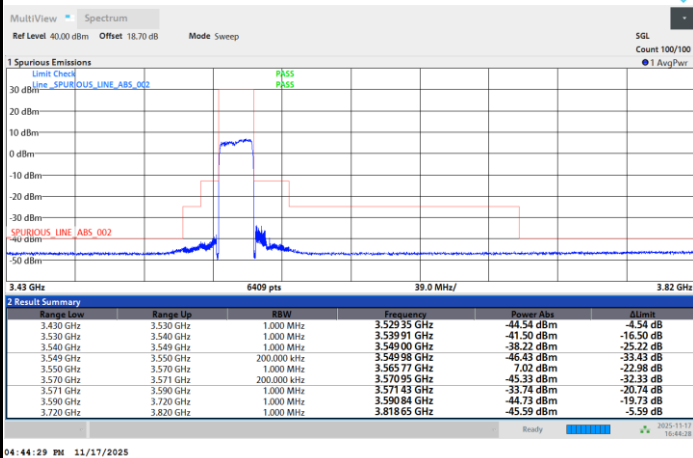
Full RB



FR1 n48 / 20MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

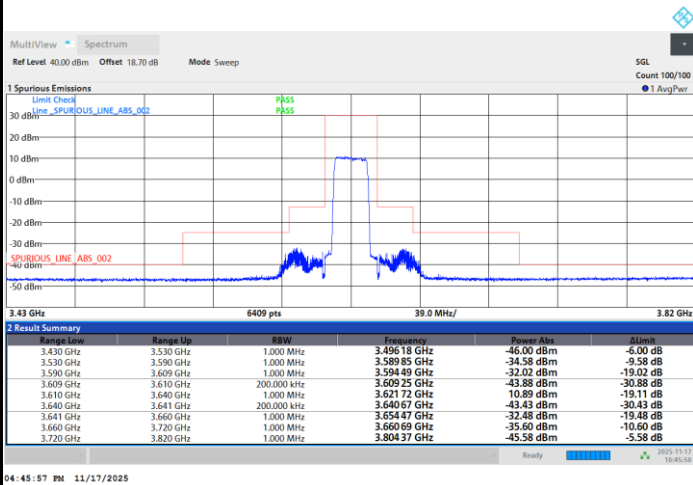




FR1 n48 / 20MHz / CP OFDM / 16QAM

Middle Channel

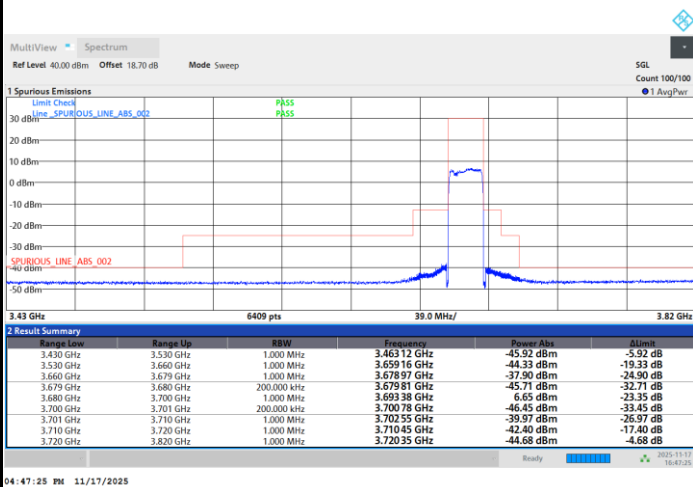
Full RB



FR1 n48 / 20MHz / CP OFDM / 16QAM

Highest Channel

Full RB

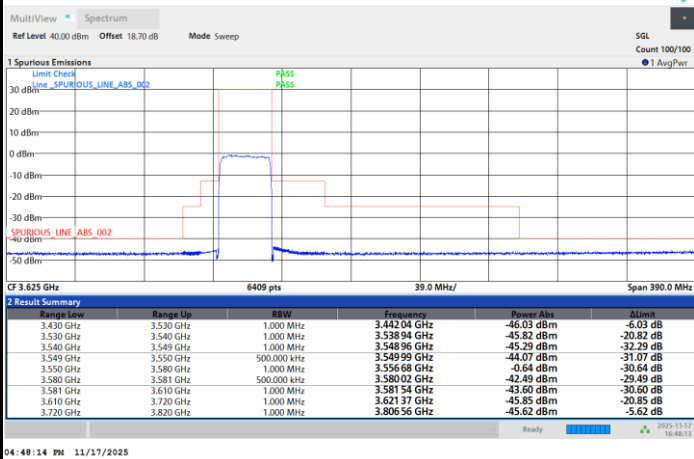




FR1 n48 / 30MHz / CP OFDM / QPSK

Lowest Channel

Full RB

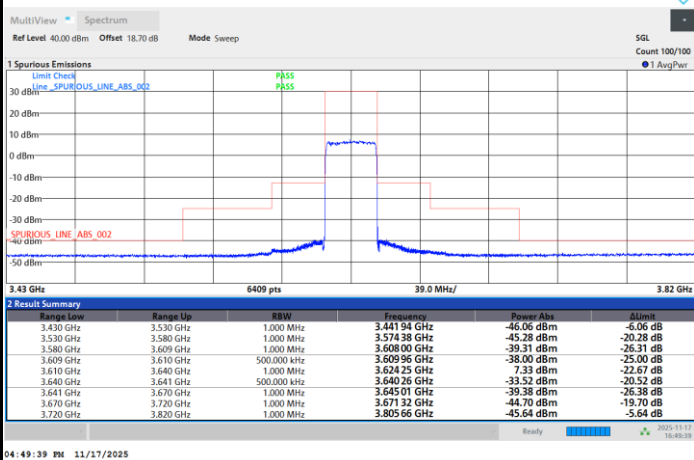


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FR1 n48 / 30MHz / CP OFDM / QPSK

Middle Channel

Full RB



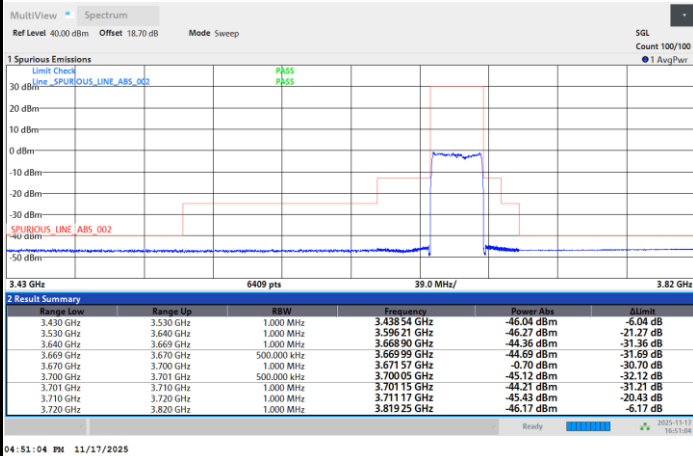
04:49:39 PM 11/17/2025



FR1 n48 / 30MHz / CP OFDM / QPSK

Highest Channel

Full RB



FR1 n48 / 30MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

