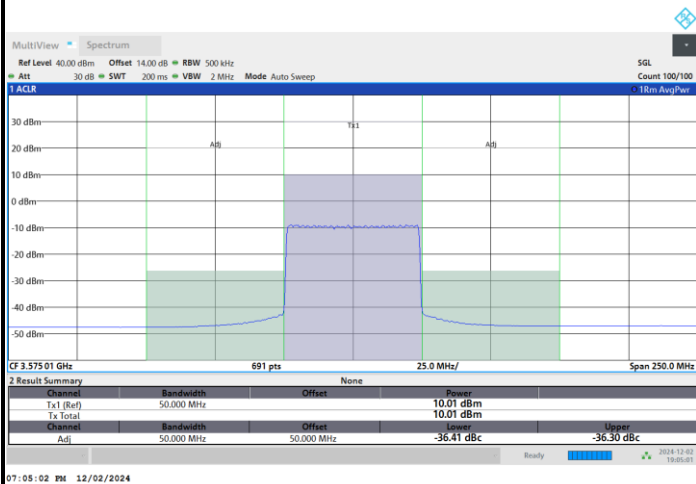




FR1 n77 / 50MHz / CP OFDM / 64QAM

Lowest Channel

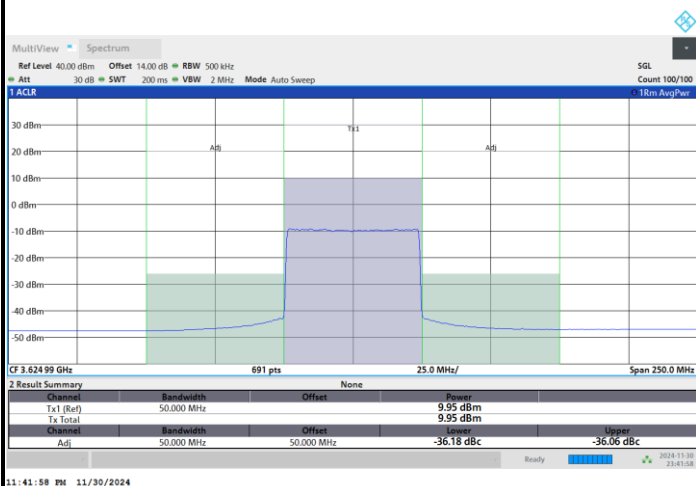
Full RB



FR1 n77 / 50MHz / CP OFDM / 64QAM

Middle Channel

Full RB

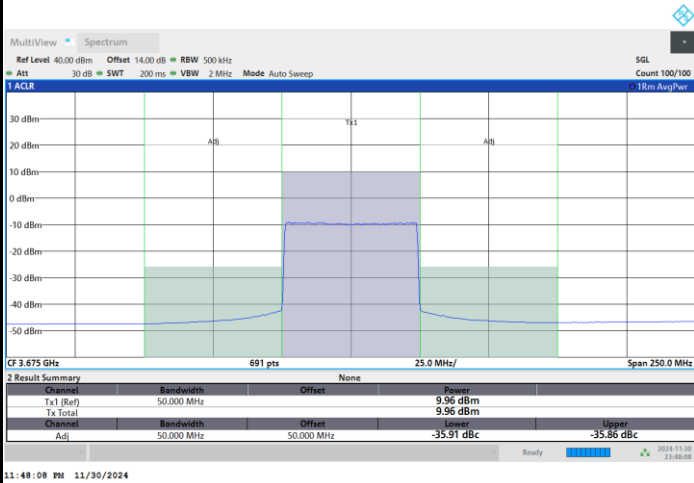




FR1 n77 / 50MHz / CP OFDM / 64QAM

Highest Channel

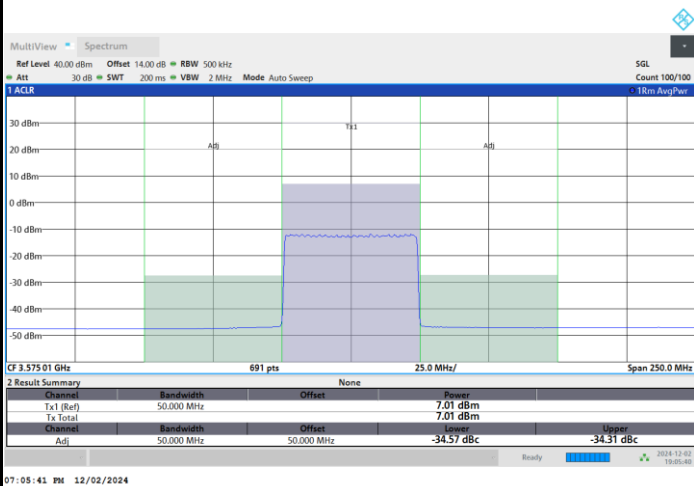
Full RB



FR1 n77 / 50MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

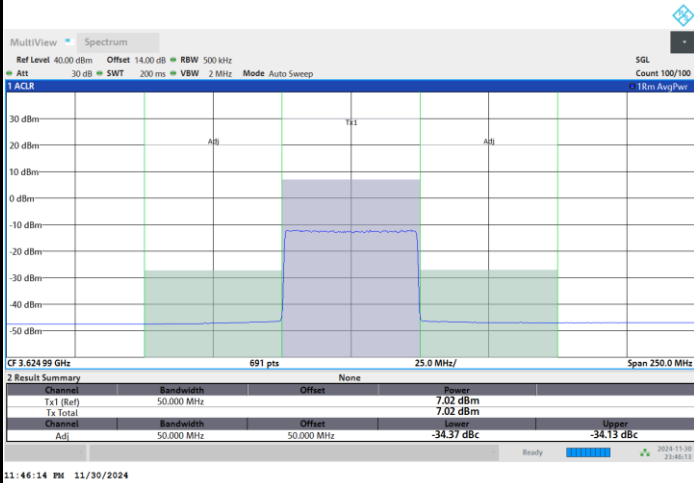




FR1 n77 / 50MHz / CP OFDM / 256QAM

Middle Channel

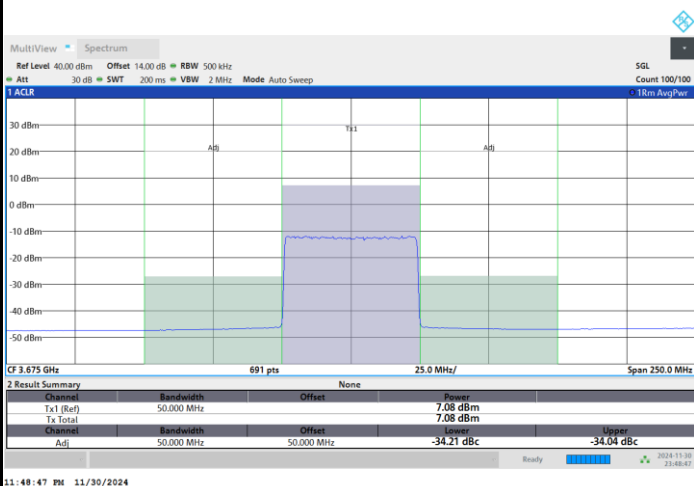
Full RB



FR1 n77 / 50MHz / CP OFDM / 256QAM

Highest Channel

Full RB

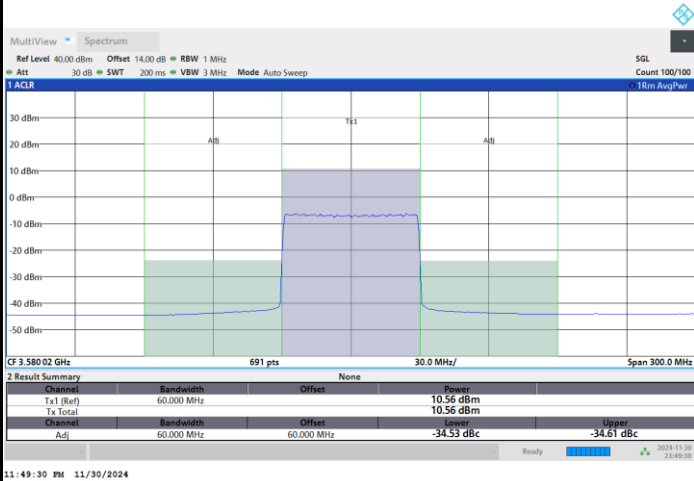




FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Channel

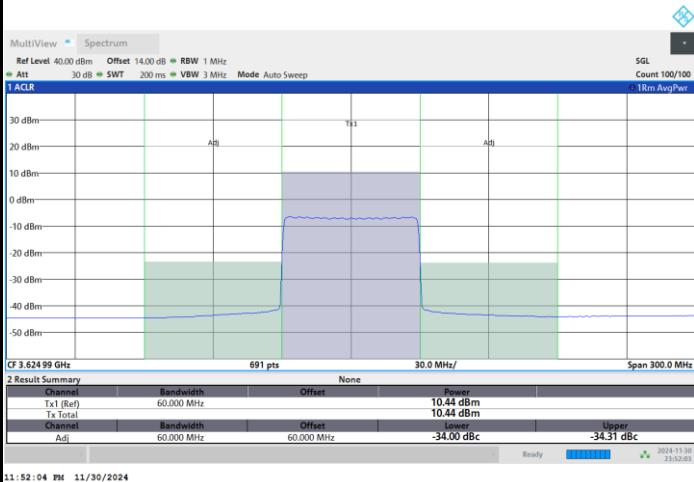
Full RB



FR1 n77 / 60MHz / CP OFDM / QPSK

Middle Channel

Full RB

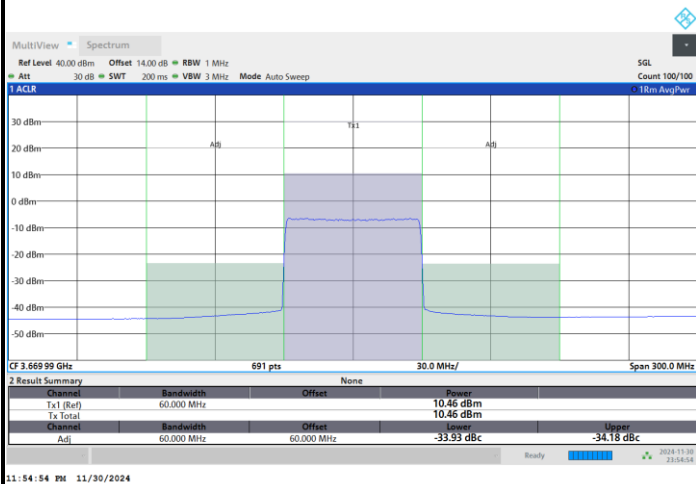




FR1 n77 / 60MHz / CP OFDM / QPSK

Highest Channel

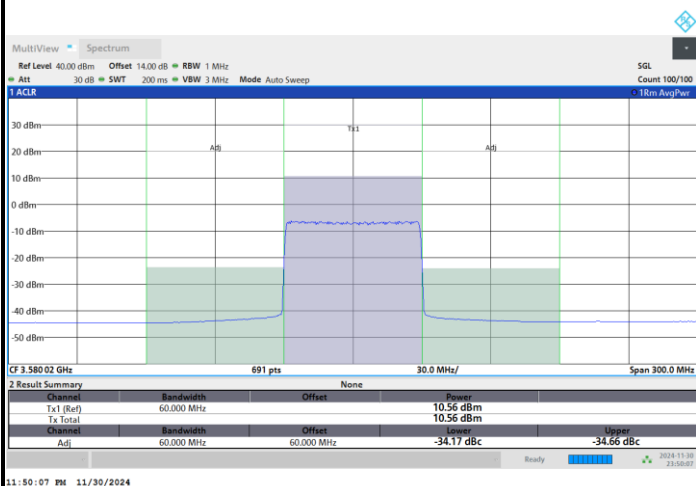
Full RB



FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

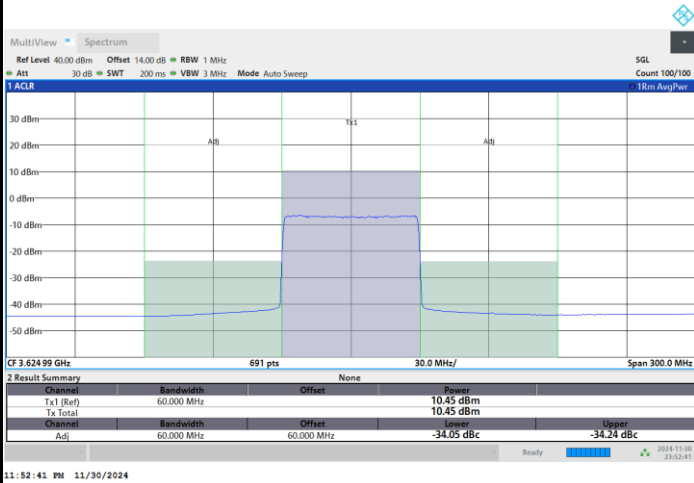




FR1 n77 / 60MHz / CP OFDM / 16QAM

Middle Channel

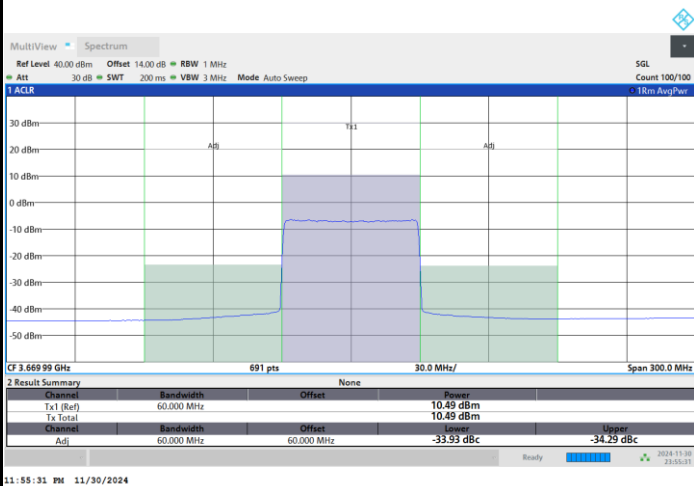
Full RB



FR1 n77 / 60MHz / CP OFDM / 16QAM

Highest Channel

Full RB

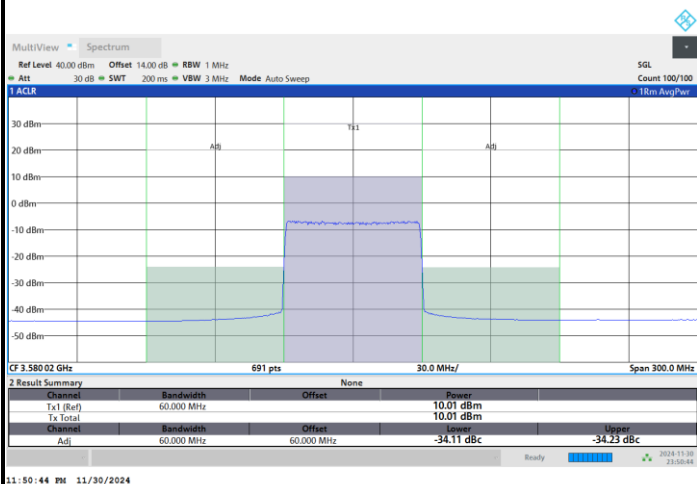




FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Channel

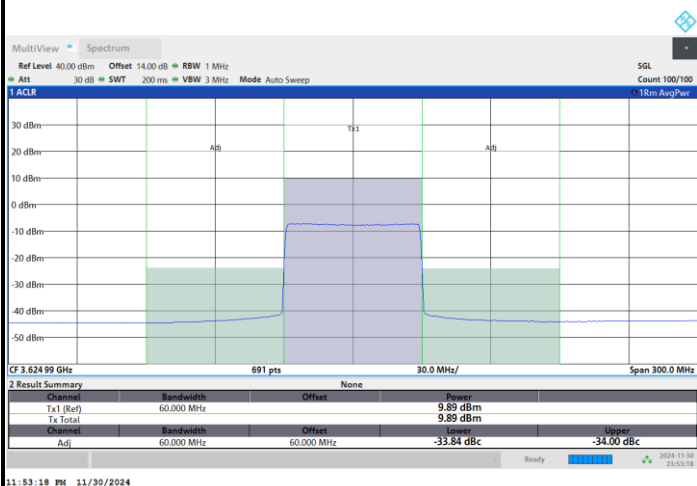
Full RB



FR1 n77 / 60MHz / CP OFDM / 64QAM

Middle Channel

Full RB

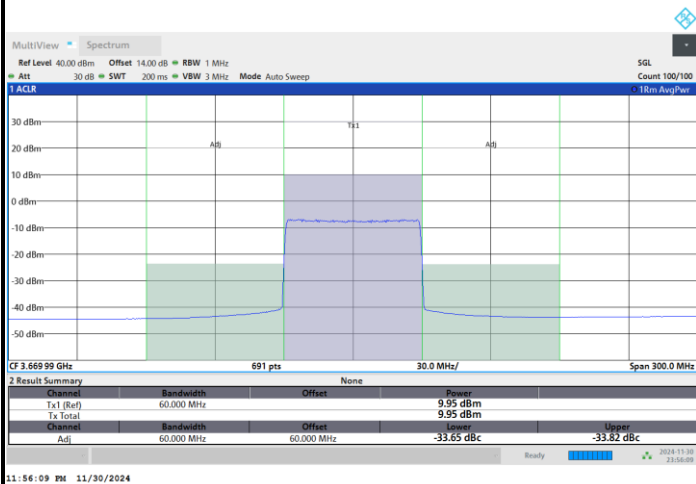




FR1 n77 / 60MHz / CP OFDM / 64QAM

Highest Channel

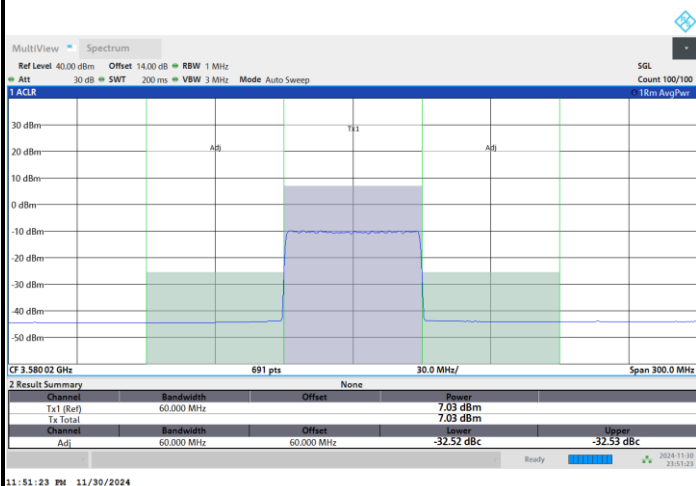
Full RB



FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

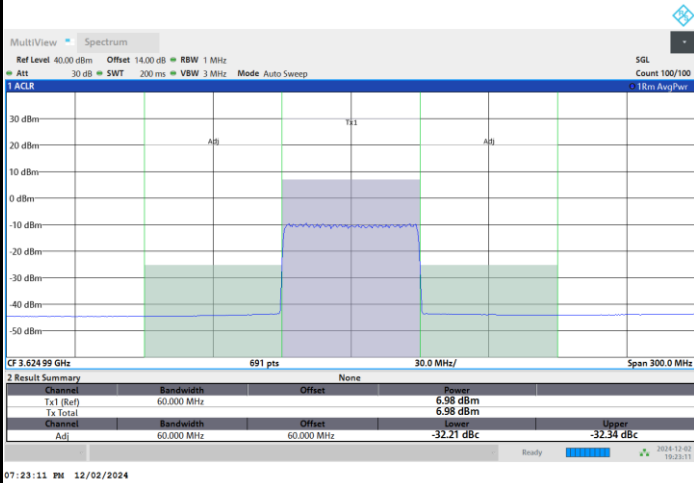




FR1 n77 / 60MHz / CP OFDM / 256QAM

Middle Channel

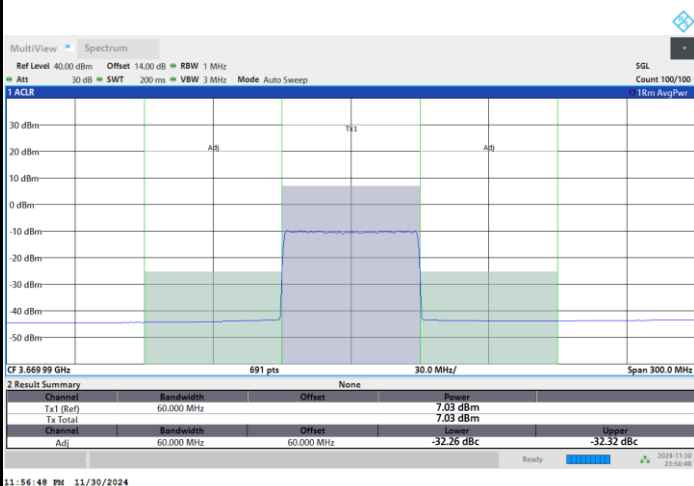
Full RB



FR1 n77 / 60MHz / CP OFDM / 256QAM

Highest Channel

Full RB

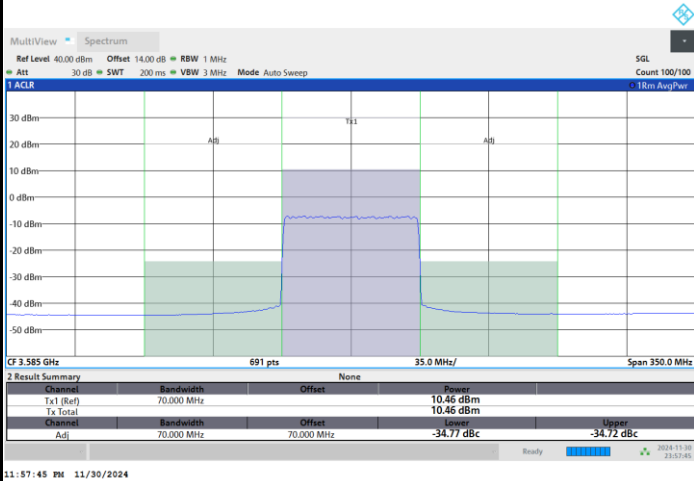




FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Channel

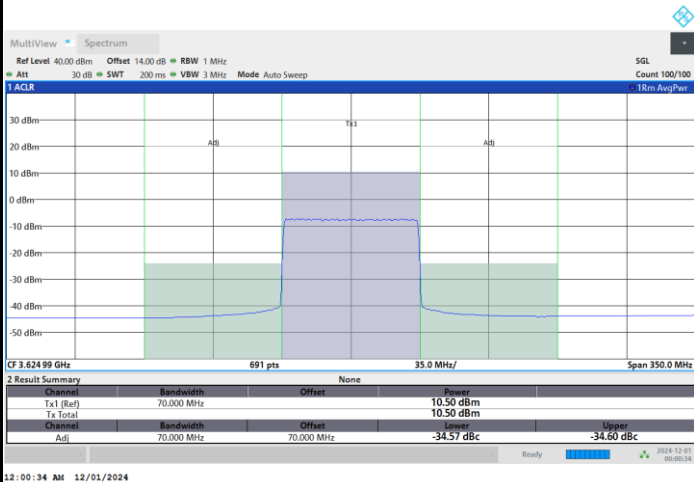
Full RB



FR1 n77 / 70MHz / CP OFDM / QPSK

Middle Channel

Full RB

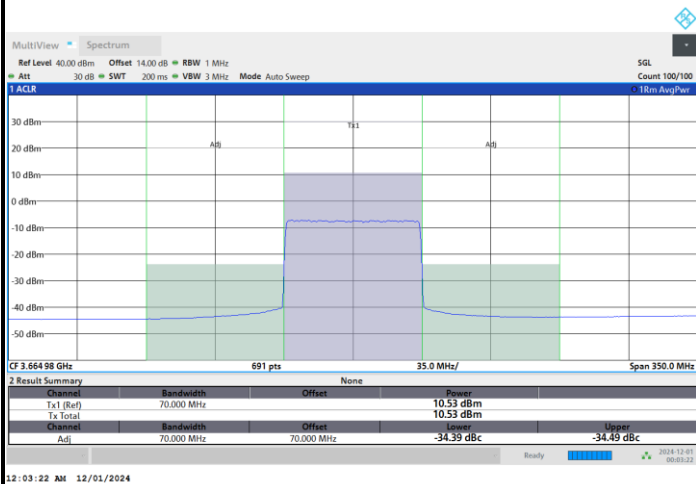




FR1 n77 / 70MHz / CP OFDM / QPSK

Highest Channel

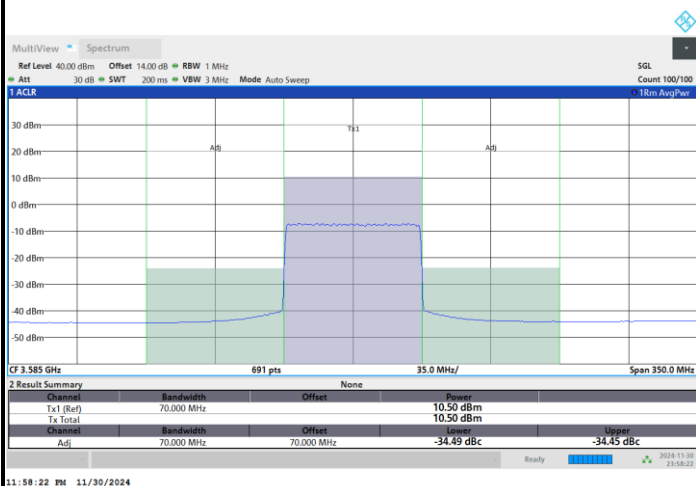
Full RB



FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

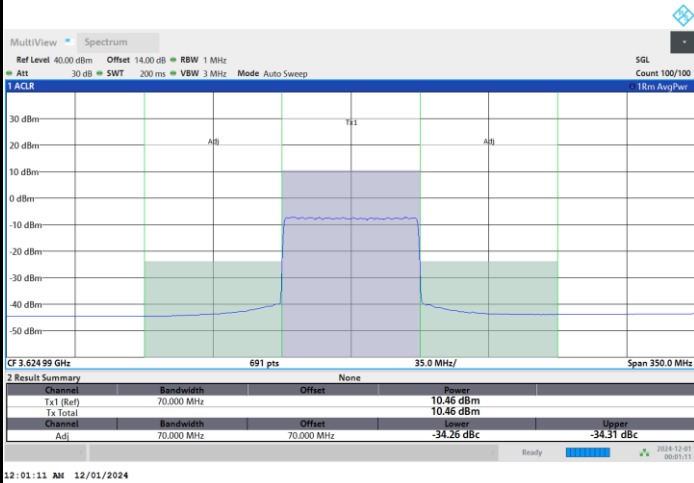




FR1 n77 / 70MHz / CP OFDM / 16QAM

Middle Channel

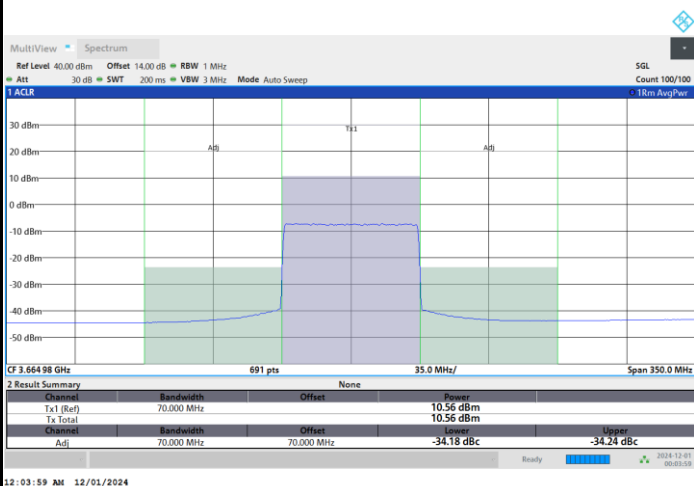
Full RB



FR1 n77 / 70MHz / CP OFDM / 16QAM

Highest Channel

Full RB

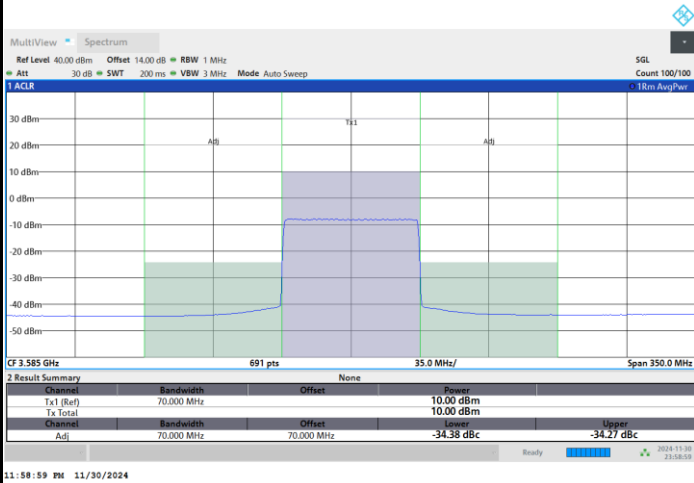




FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Channel

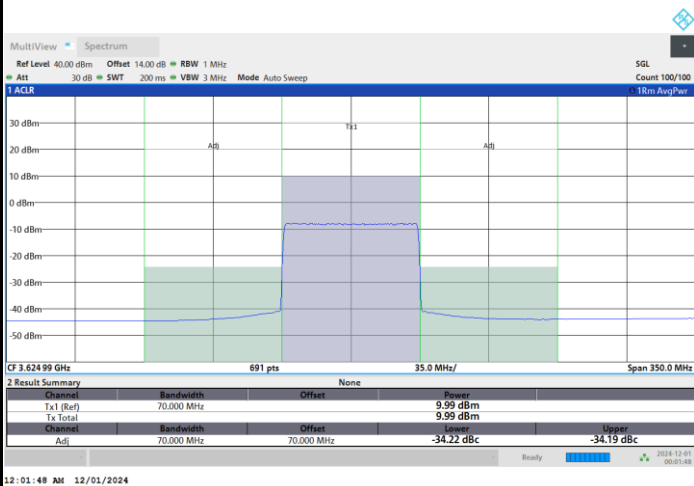
Full RB



FR1 n77 / 70MHz / CP OFDM / 64QAM

Middle Channel

Full RB

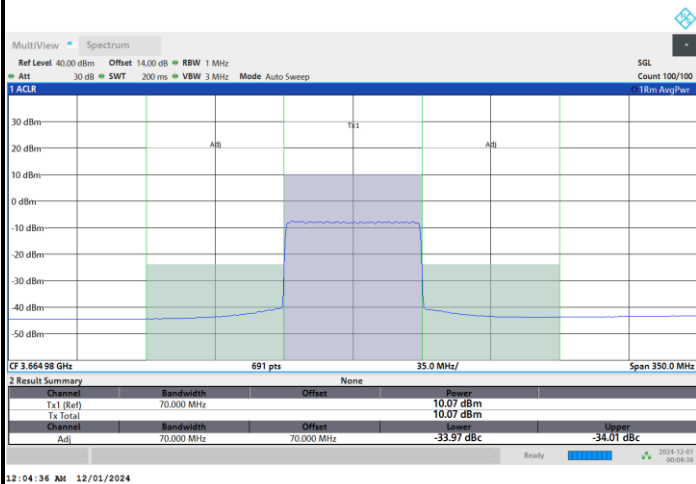




FR1 n77 / 70MHz / CP OFDM / 64QAM

Highest Channel

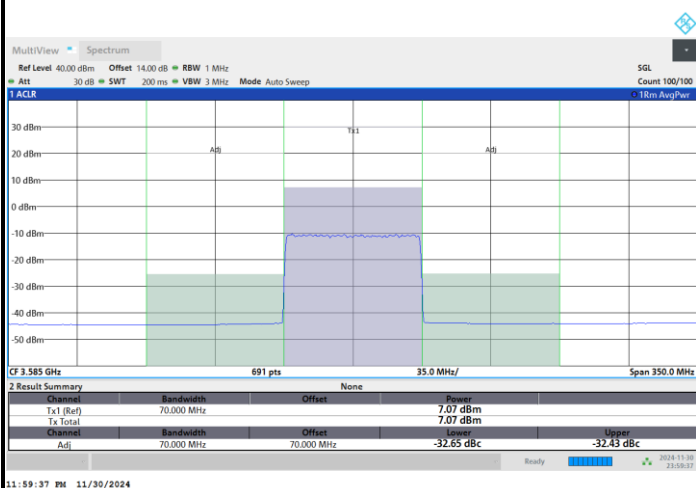
Full RB



FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

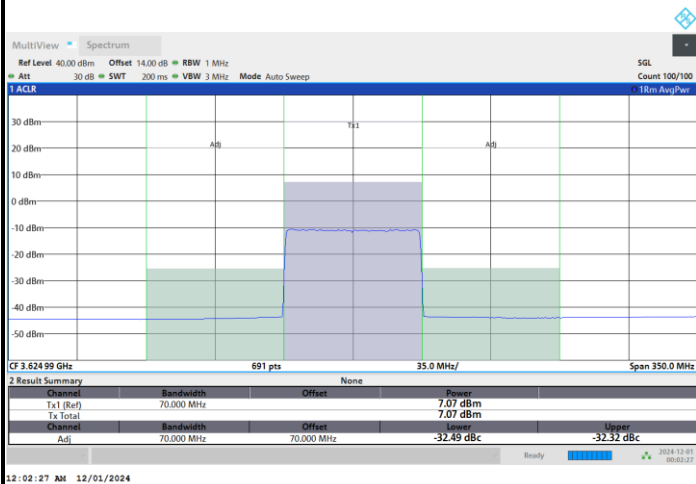




FR1 n77 / 70MHz / CP OFDM / 256QAM

Middle Channel

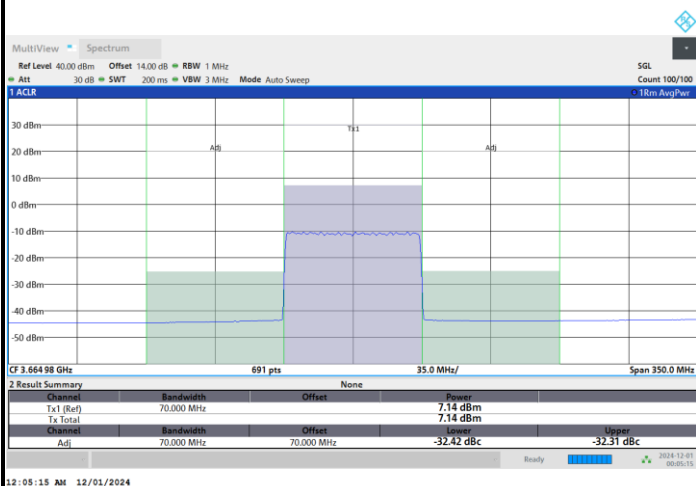
Full RB



FR1 n77 / 70MHz / CP OFDM / 256QAM

Highest Channel

Full RB

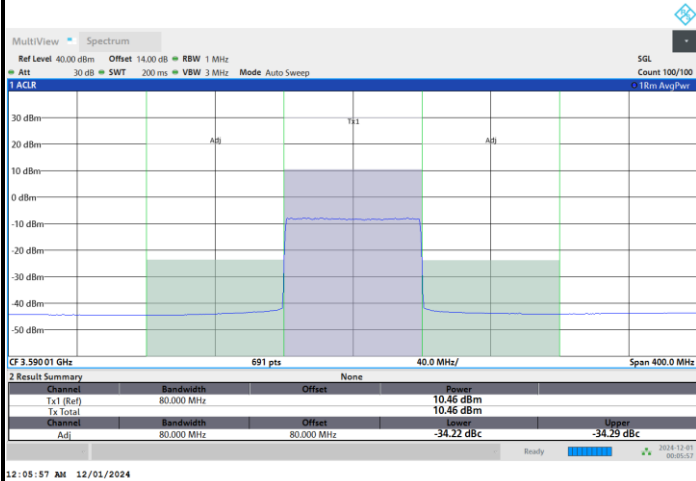




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Channel

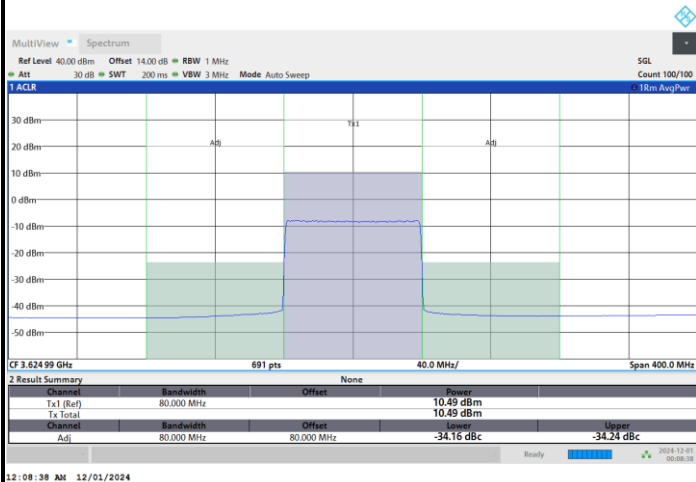
Full RB



FR1 n77 / 80MHz / CP OFDM / QPSK

Middle Channel

Full RB

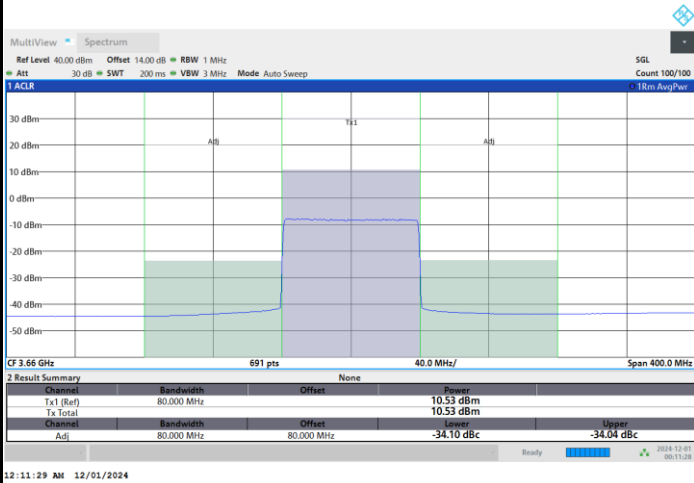




FR1 n77 / 80MHz / CP OFDM / QPSK

Highest Channel

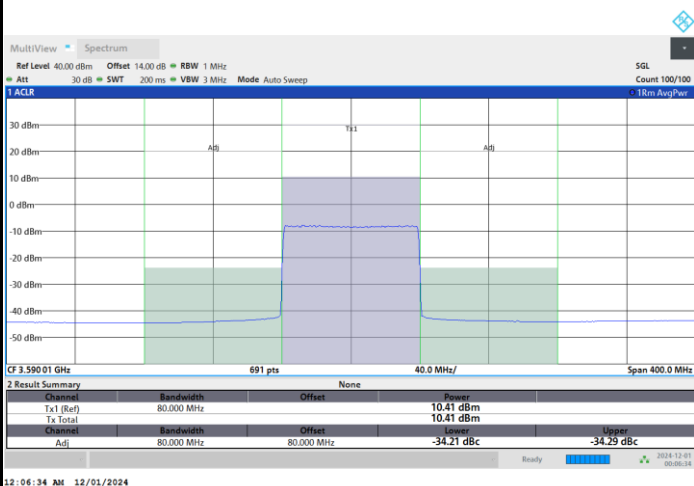
Full RB

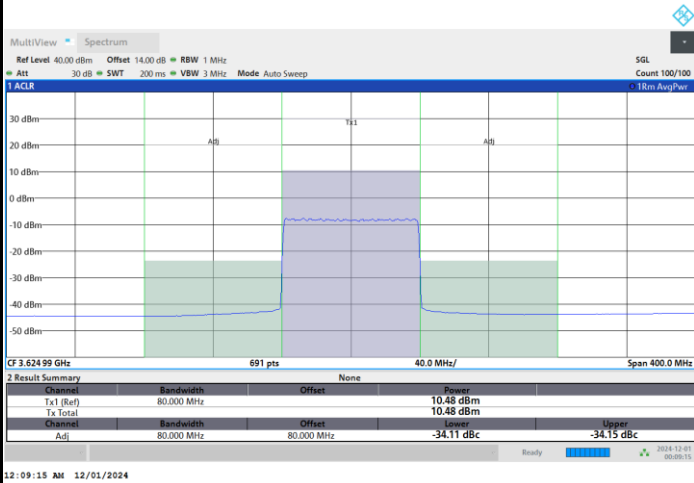
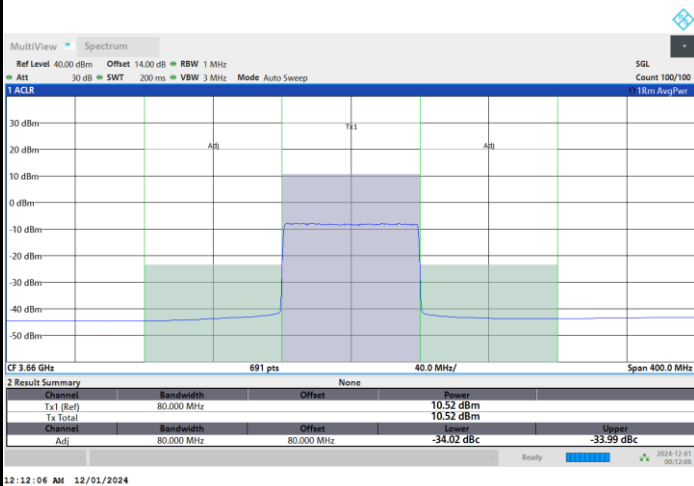


FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Channel

Full RB



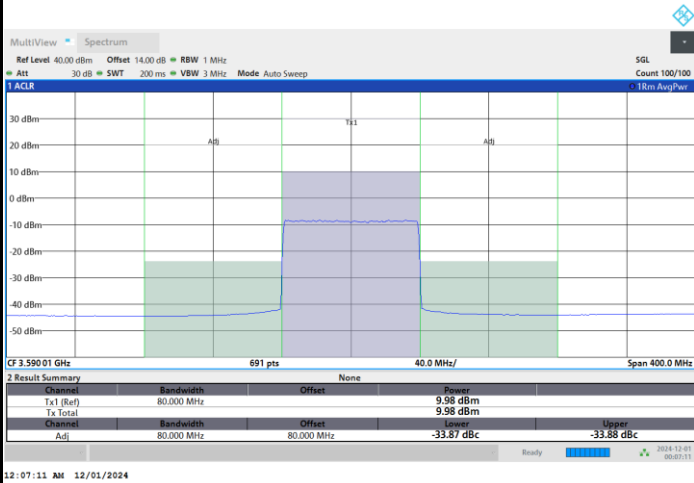
**FR1 n77 / 80MHz / CP OFDM / 16QAM****Middle Channel****Full RB****FR1 n77 / 80MHz / CP OFDM / 16QAM****Highest Channel****Full RB**



FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Channel

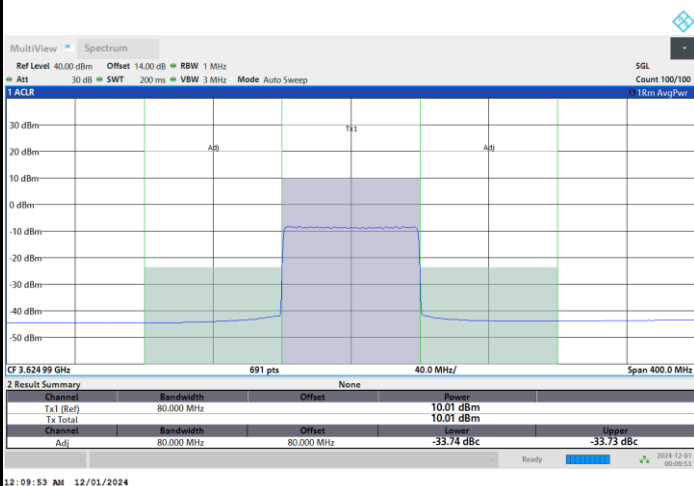
Full RB



FR1 n77 / 80MHz / CP OFDM / 64QAM

Middle Channel

Full RB

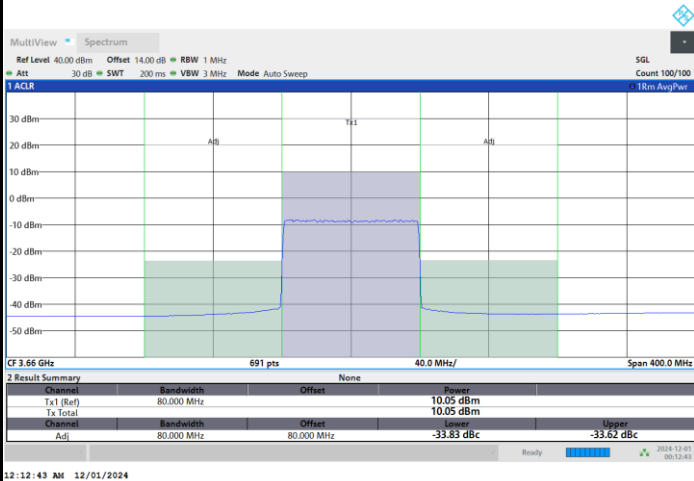




FR1 n77 / 80MHz / CP OFDM / 64QAM

Highest Channel

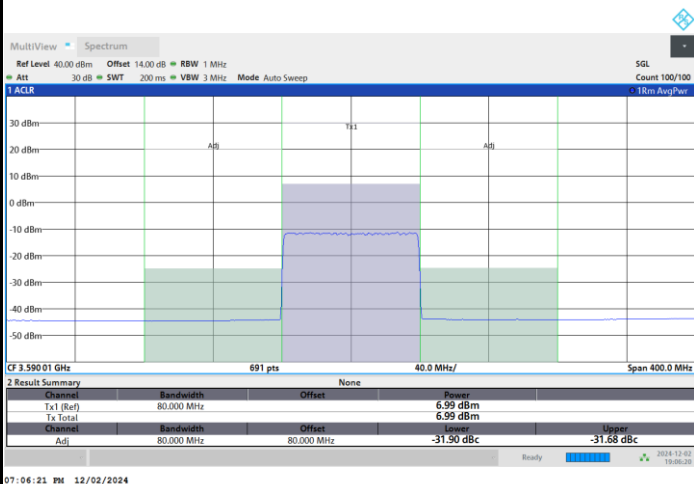
Full RB



FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

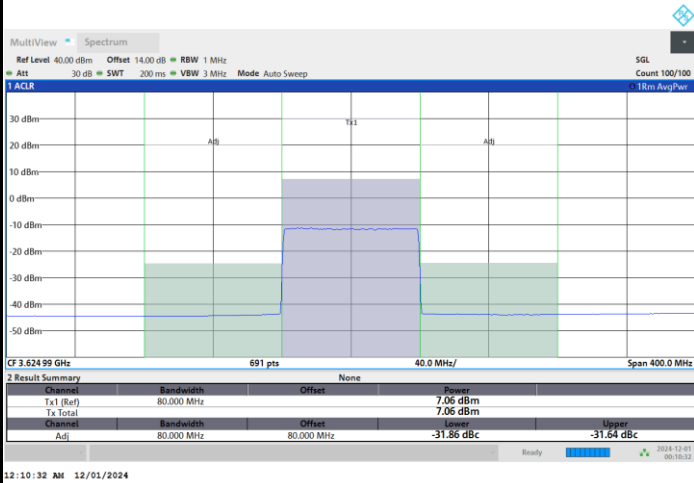




FR1 n77 / 80MHz / CP OFDM / 256QAM

Middle Channel

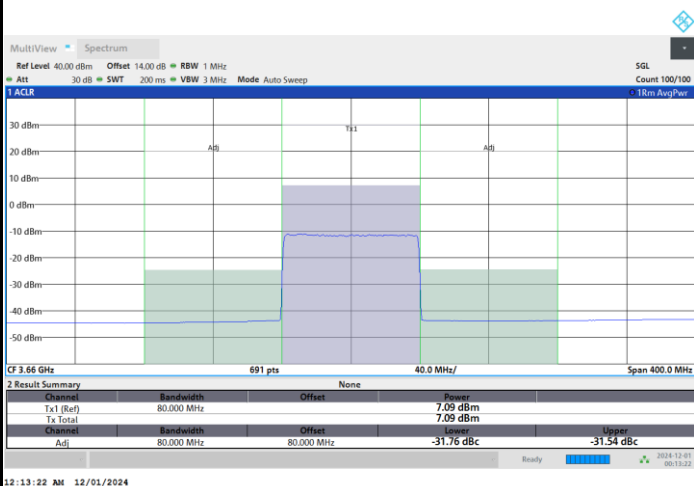
Full RB



FR1 n77 / 80MHz / CP OFDM / 256QAM

Highest Channel

Full RB

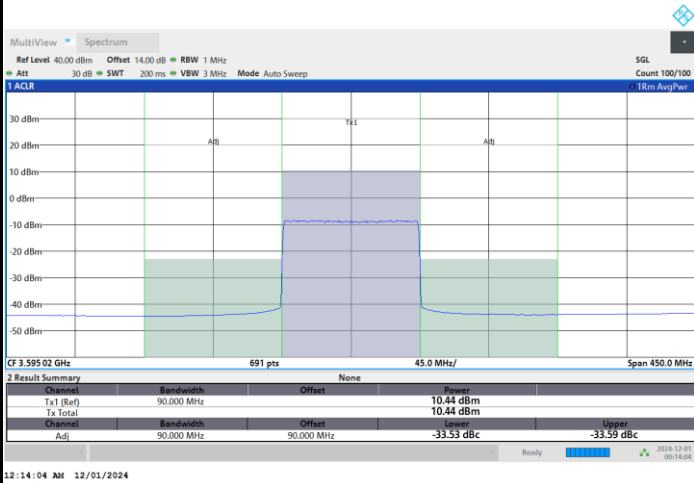




FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Channel

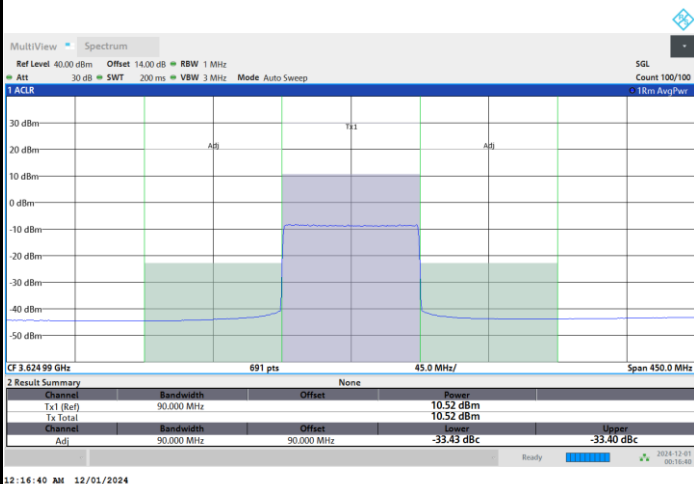
Full RB



FR1 n77 / 90MHz / CP OFDM / QPSK

Middle Channel

Full RB

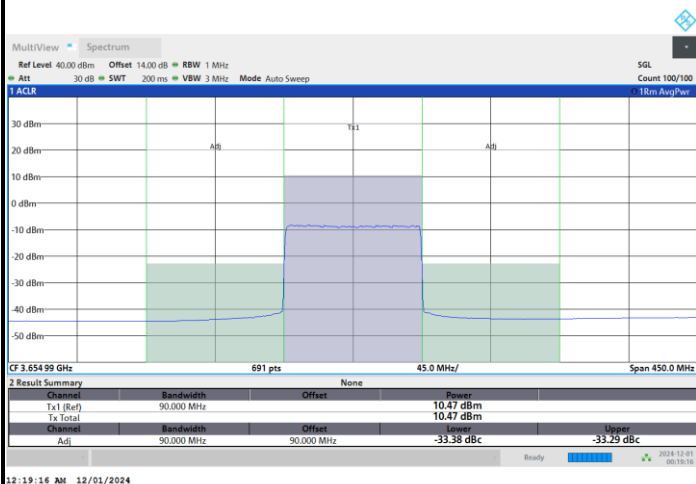




FR1 n77 / 90MHz / CP OFDM / QPSK

Highest Channel

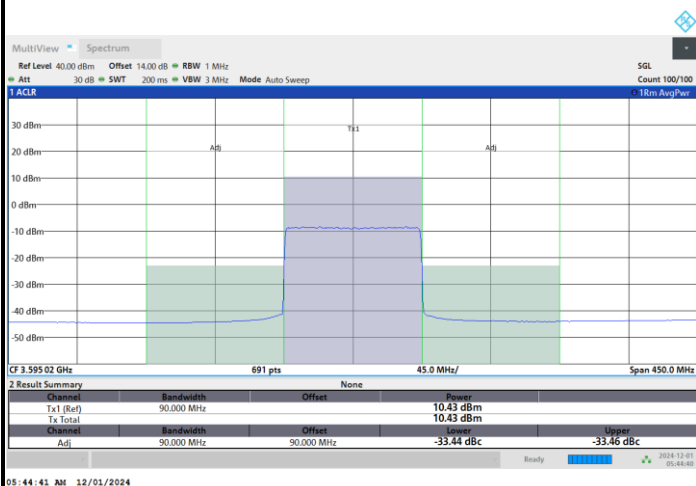
Full RB



FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

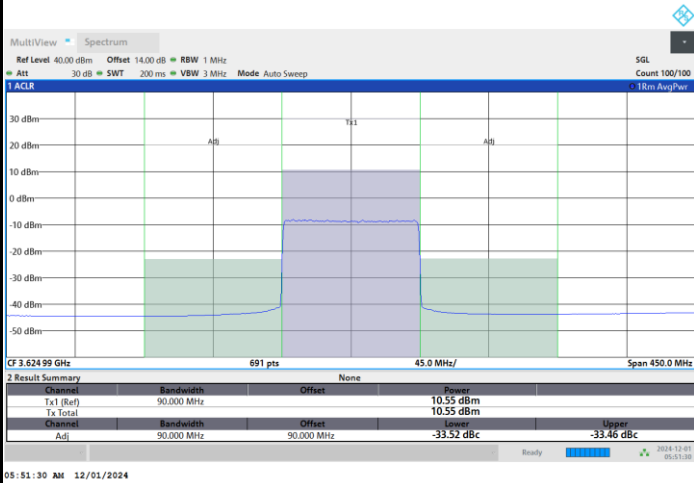




FR1 n77 / 90MHz / CP OFDM / 16QAM

Middle Channel

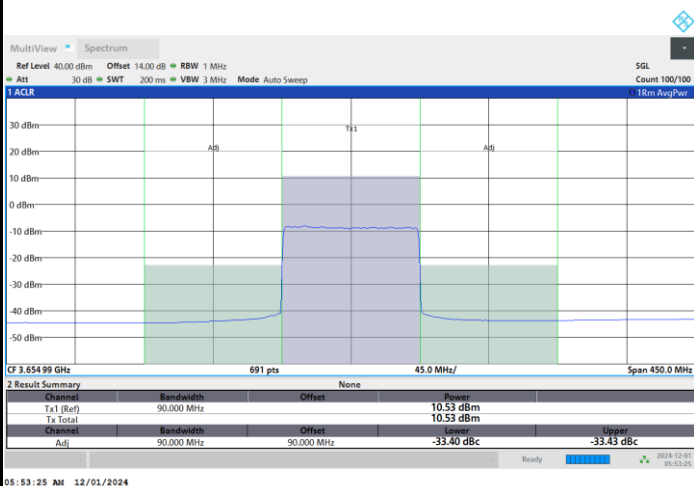
Full RB



FR1 n77 / 90MHz / CP OFDM / 16QAM

Highest Channel

Full RB

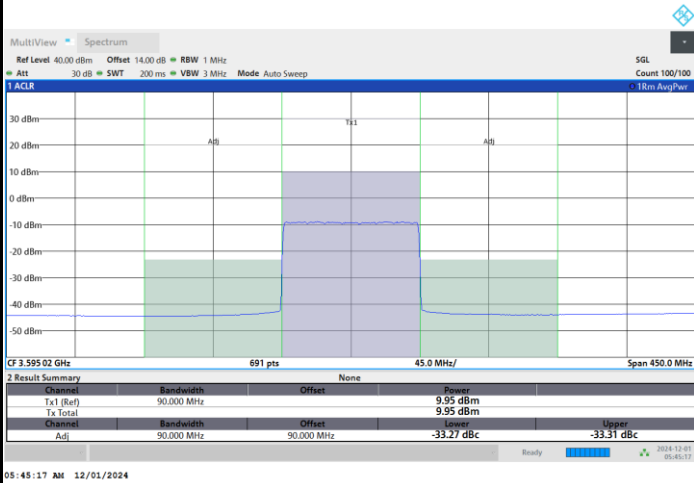




FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Channel

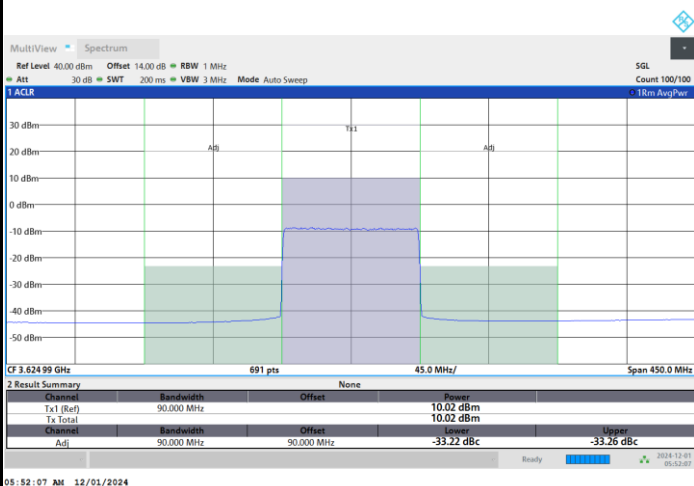
Full RB



FR1 n77 / 90MHz / CP OFDM / 64QAM

Middle Channel

Full RB

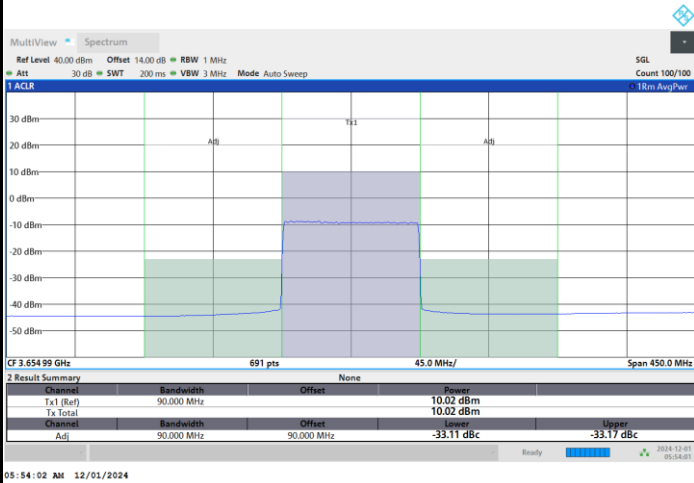




FR1 n77 / 90MHz / CP OFDM / 64QAM

Highest Channel

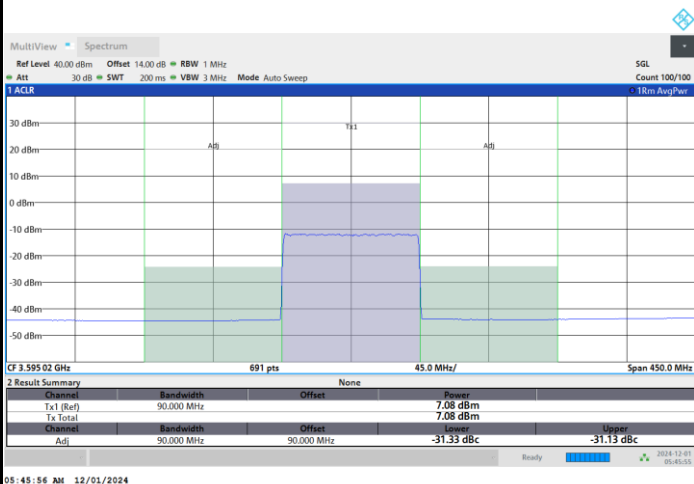
Full RB



FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

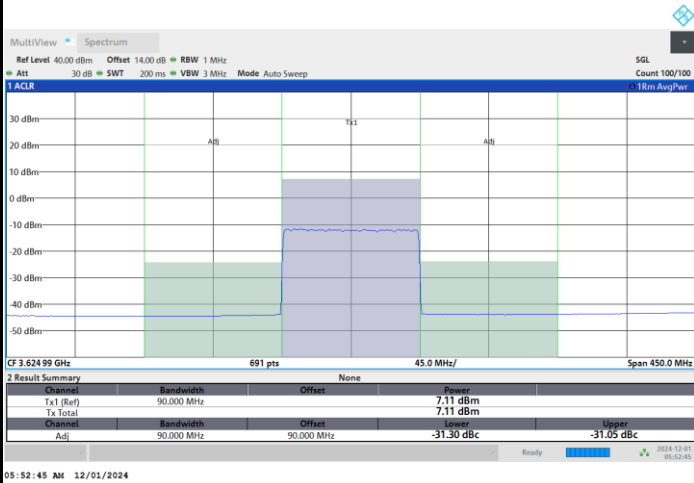




FR1 n77 / 90MHz / CP OFDM / 256QAM

Middle Channel

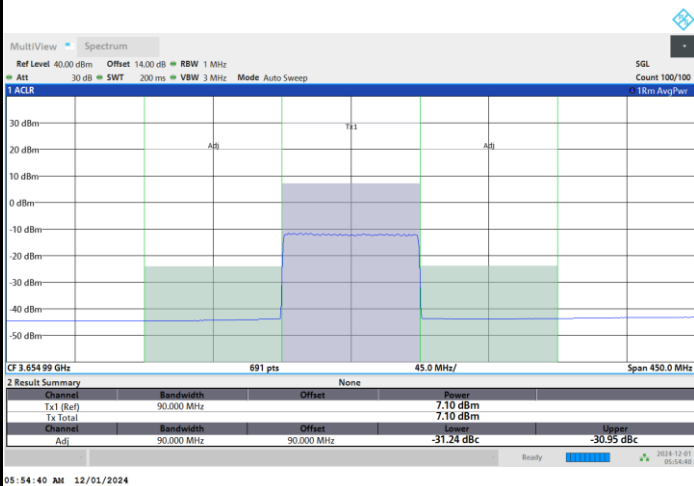
Full RB



FR1 n77 / 90MHz / CP OFDM / 256QAM

Highest Channel

Full RB

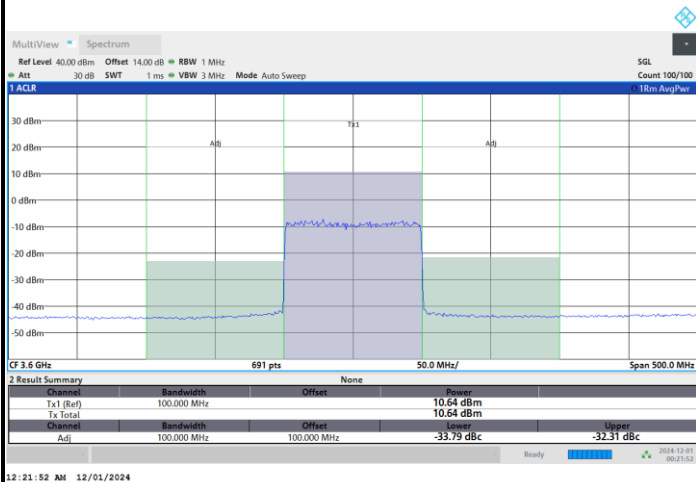




FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Channel

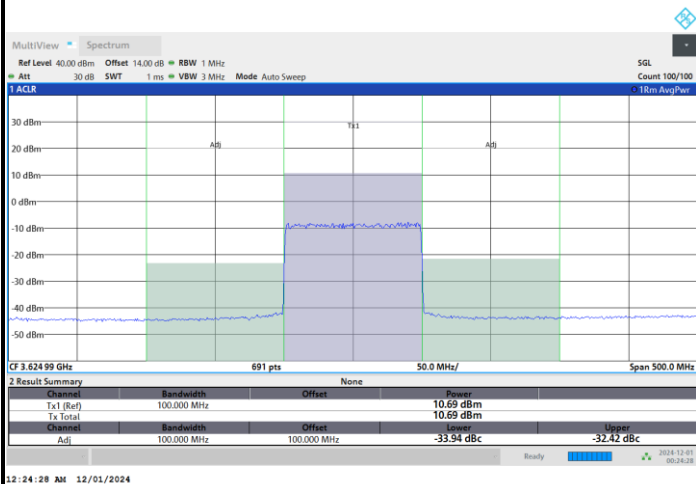
Full RB



FR1 n77 / 100MHz / CP OFDM / QPSK

Middle Channel

Full RB





FR1 n77 / 100MHz / CP OFDM / QPSK

Highest Channel

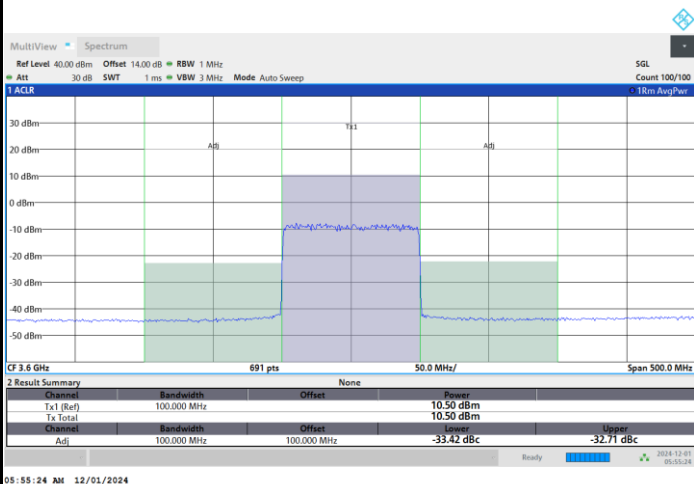
Full RB



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Channel

Full RB





FR1 n77 / 100MHz / CP OFDM / 16QAM

Middle Channel

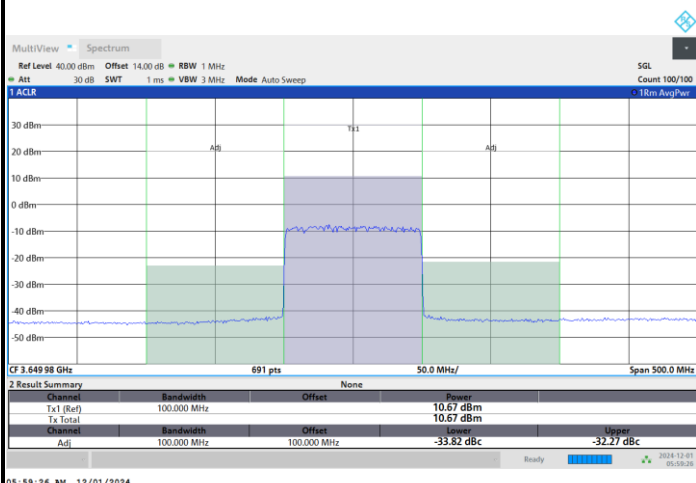
Full RB



FR1 n77 / 100MHz / CP OFDM / 16QAM

Highest Channel

Full RB

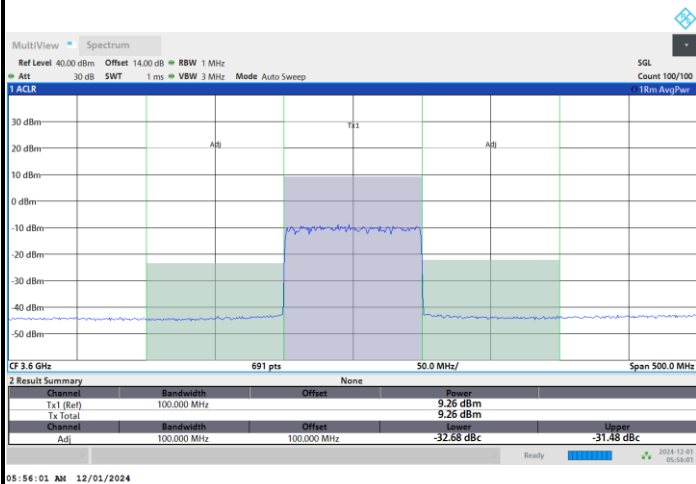




FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Channel

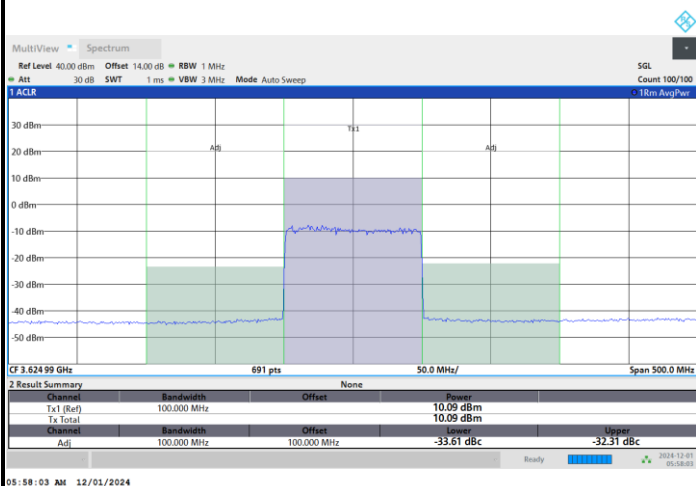
Full RB



FR1 n77 / 100MHz / CP OFDM / 64QAM

Middle Channel

Full RB

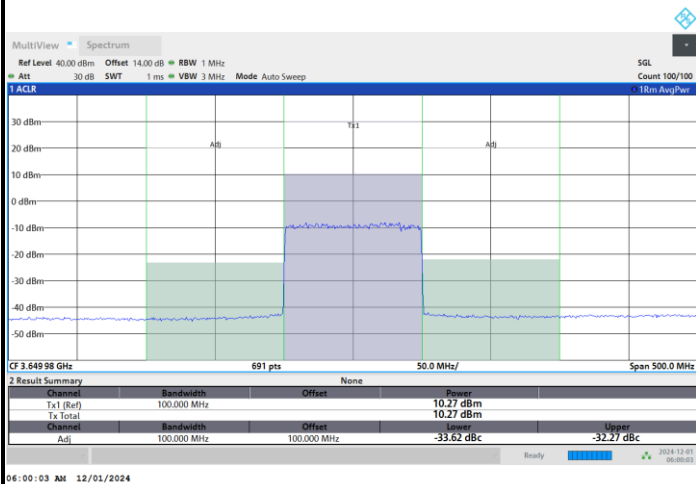




FR1 n77 / 100MHz / CP OFDM / 64QAM

Highest Channel

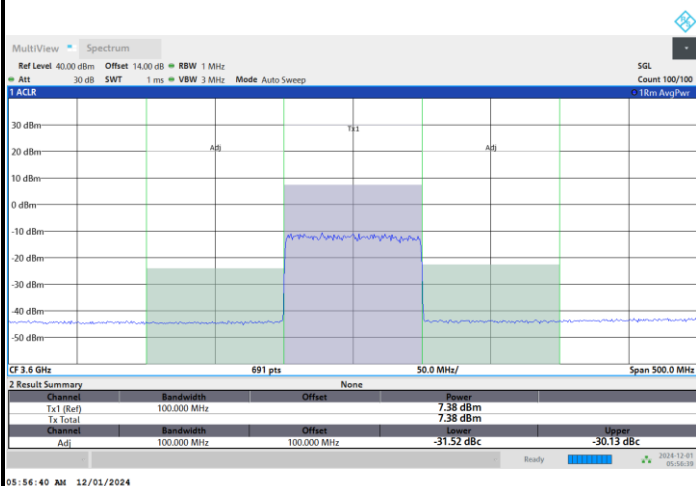
Full RB



FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

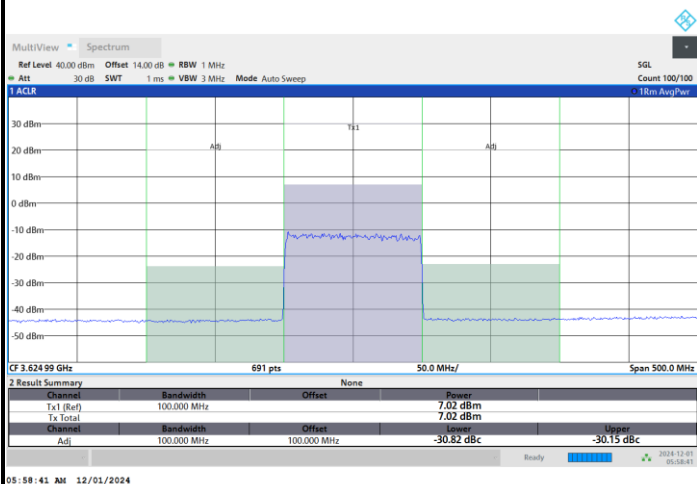




FR1 n77 / 100MHz / CP OFDM / 256QAM

Middle Channel

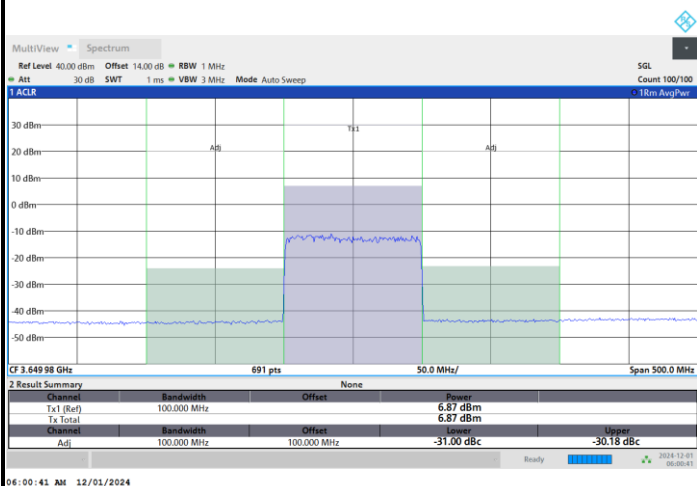
Full RB



FR1 n77 / 100MHz / CP OFDM / 256QAM

Highest Channel

Full RB

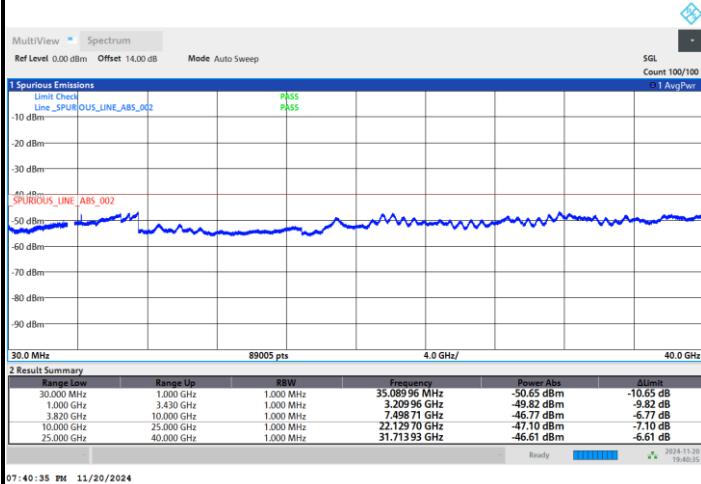




Conducted Spurious Emission

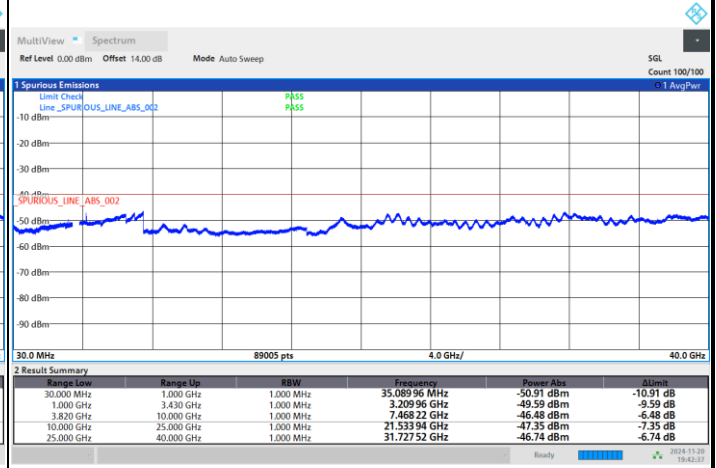
FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



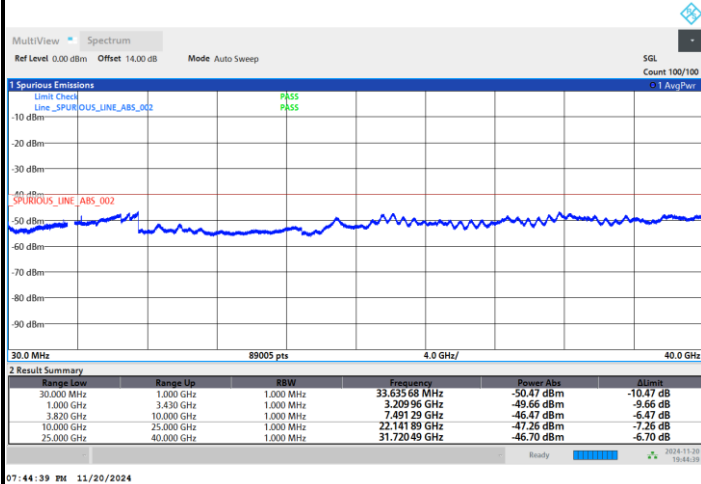
07:40:35 PM 11/20/2024

Middle Channel



07:42:37 PM 11/20/2024

Highest Channel



07:44:39 PM 11/20/2024

Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0075	
30	Normal Voltage	0.0075	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0093	
-10	Normal Voltage	0.0095	
-20	Normal Voltage	0.0087	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0014	

Note:

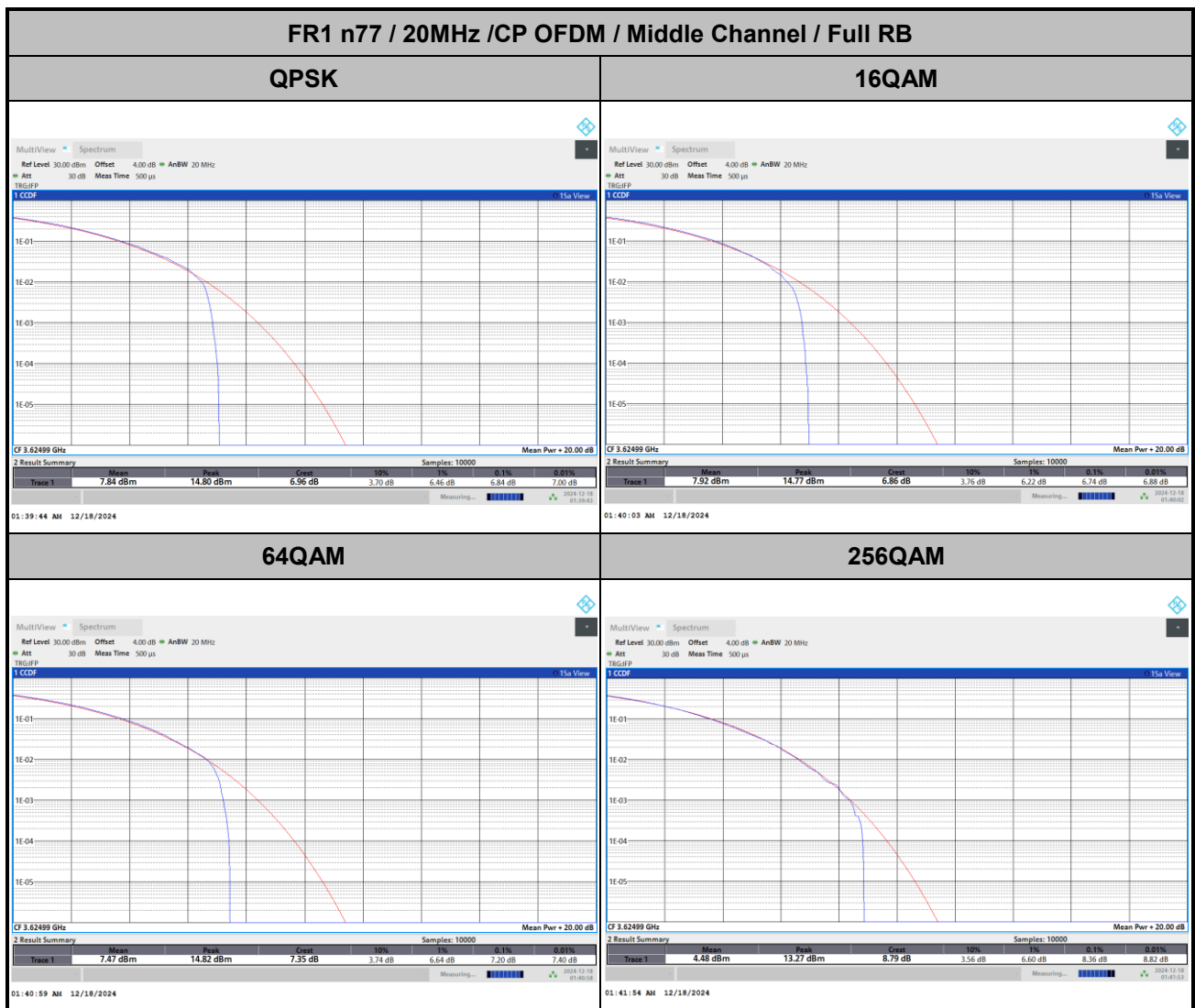
1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 9>

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	6.84	6.74	7.20	8.36	PASS



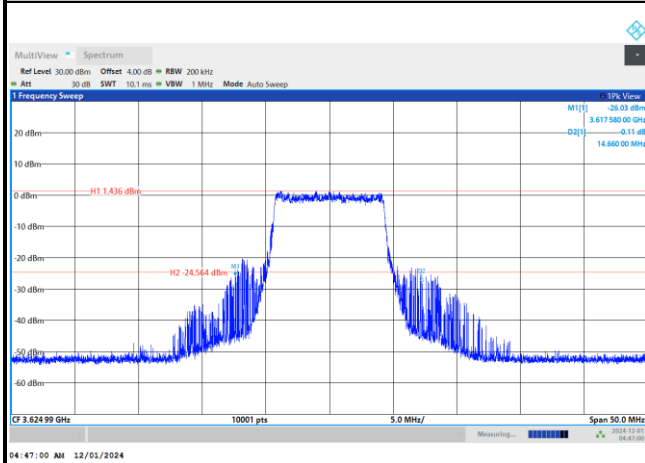
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	14.66	10.37	18.39	19.15	21.53	20.22	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	12.29	10.52	19.04	20.94	20.74	20.11	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	35.89	34.46	45.90	43.53	53.46	54.93	67.21	63.96
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	33.24	33.84	46.00	41.03	53.68	55.25	64.59	67.63
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	74.27	74.73	82.17	85.10	98.15	94.66	104.99	103.45
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	79.23	75.44	82.99	84.17	93.91	96.95	107.34	106.09

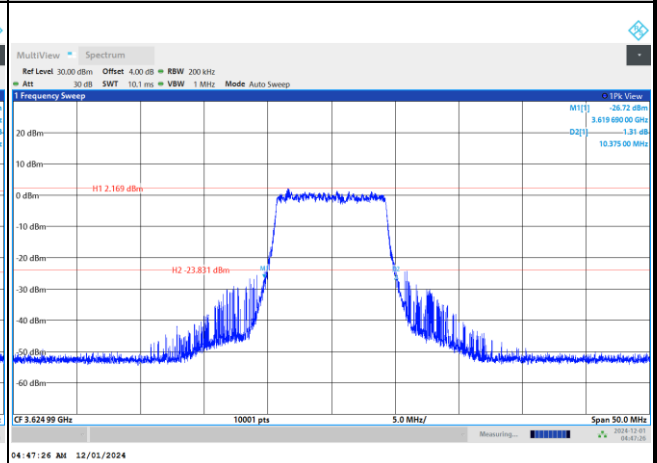


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

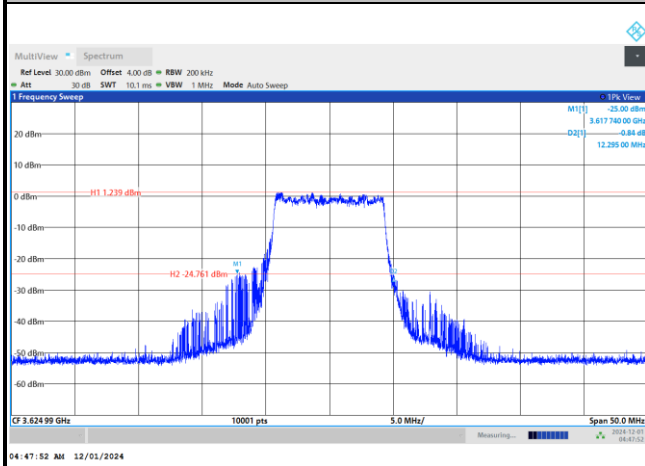
QPSK



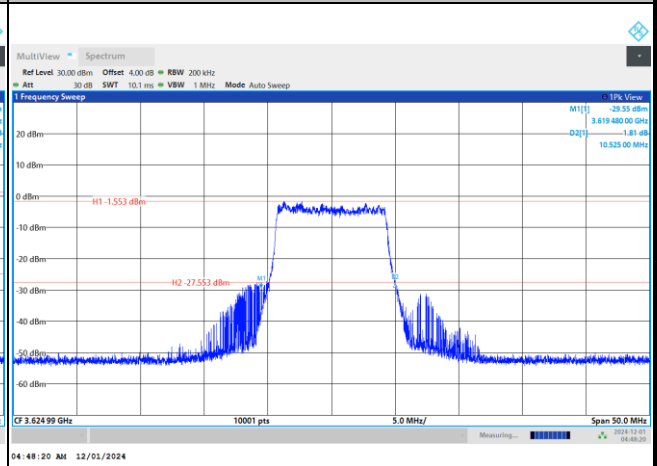
16QAM



64QAM



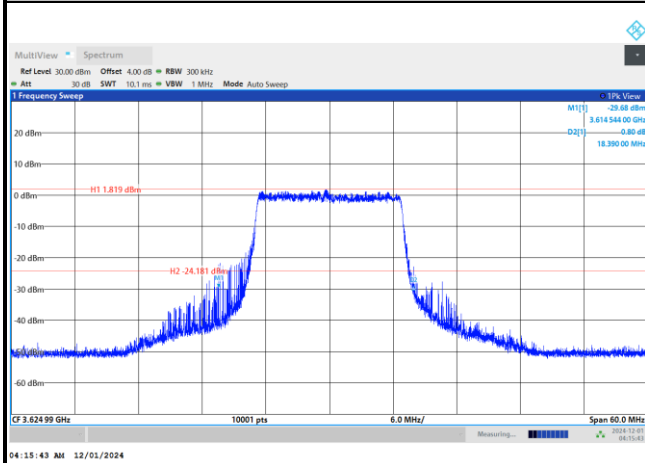
256QAM



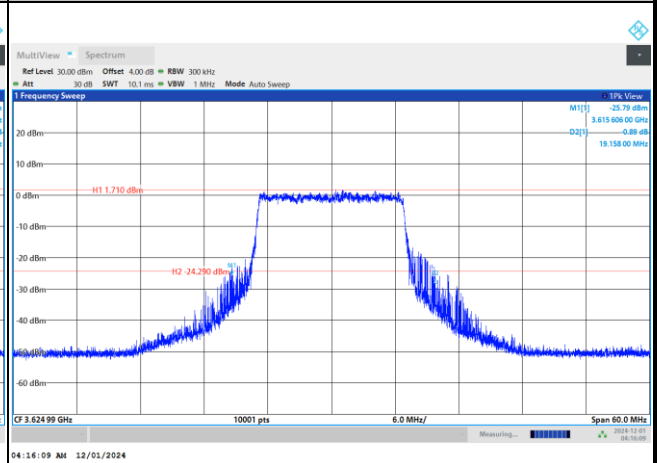


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

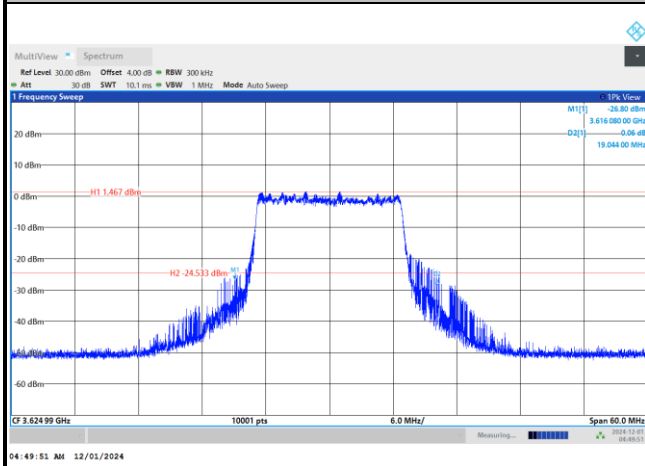
QPSK



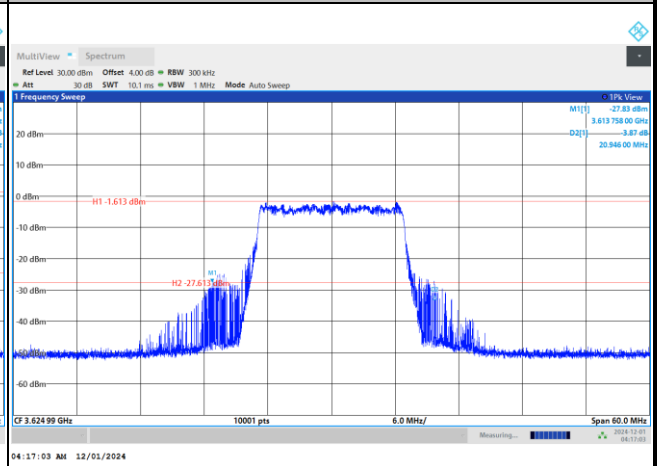
16QAM



64QAM



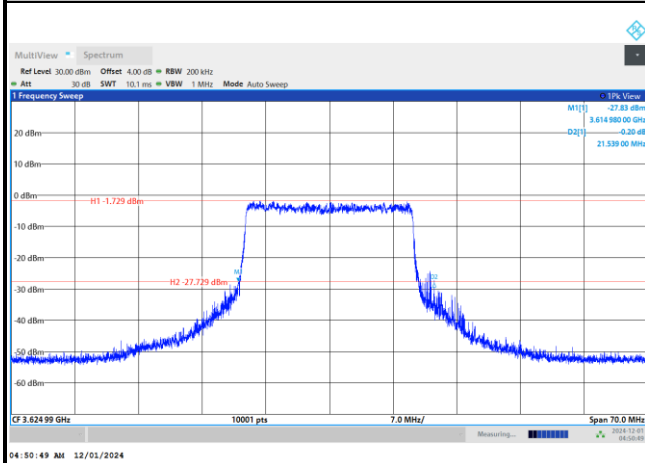
256QAM



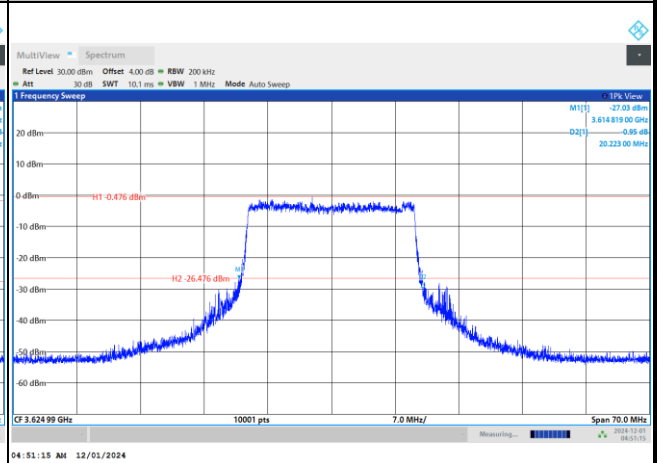


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

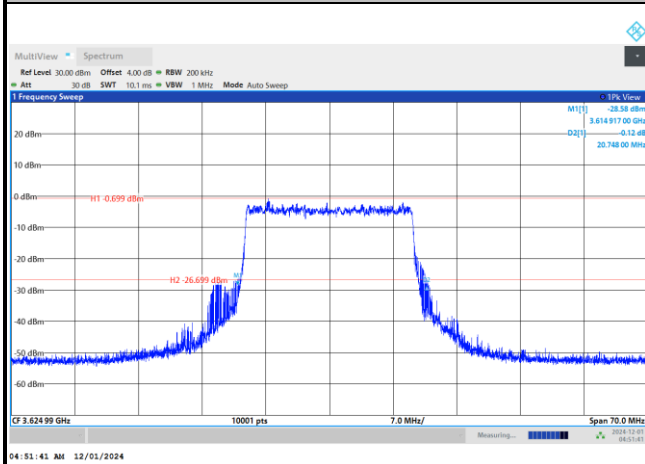
QPSK



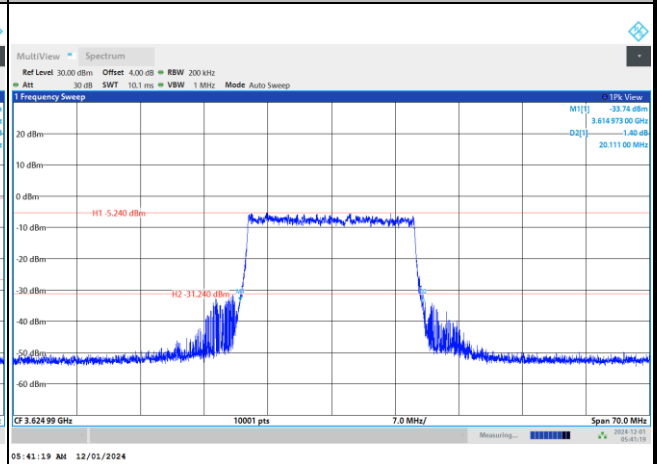
16QAM



64QAM



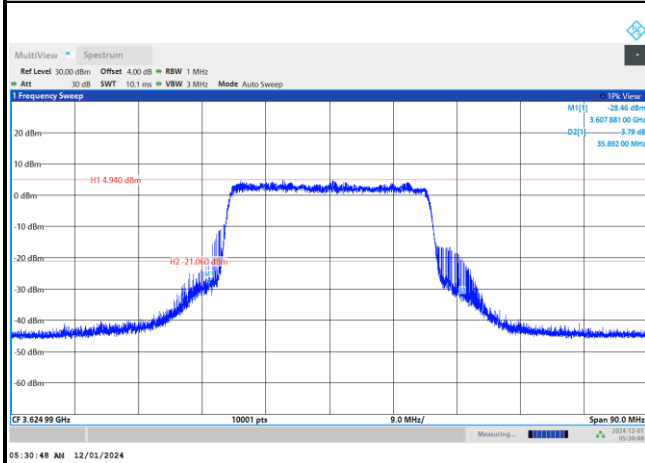
256QAM



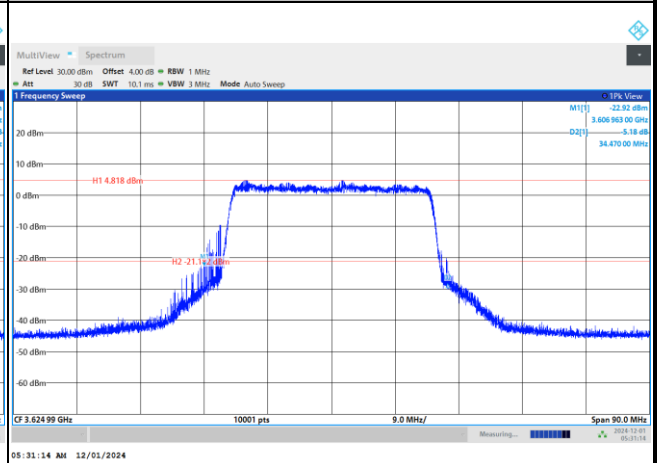


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

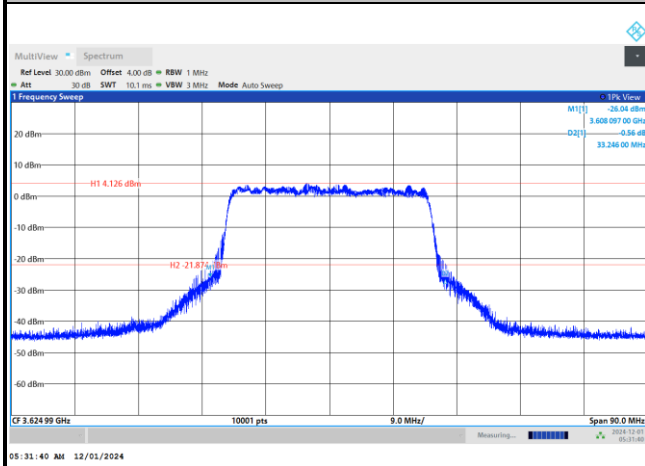
QPSK



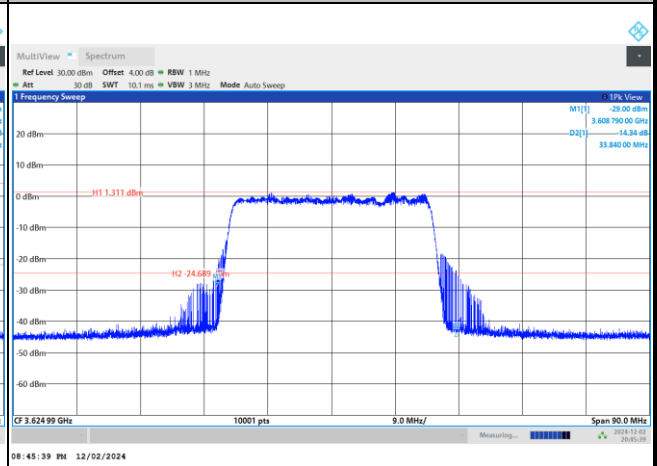
16QAM

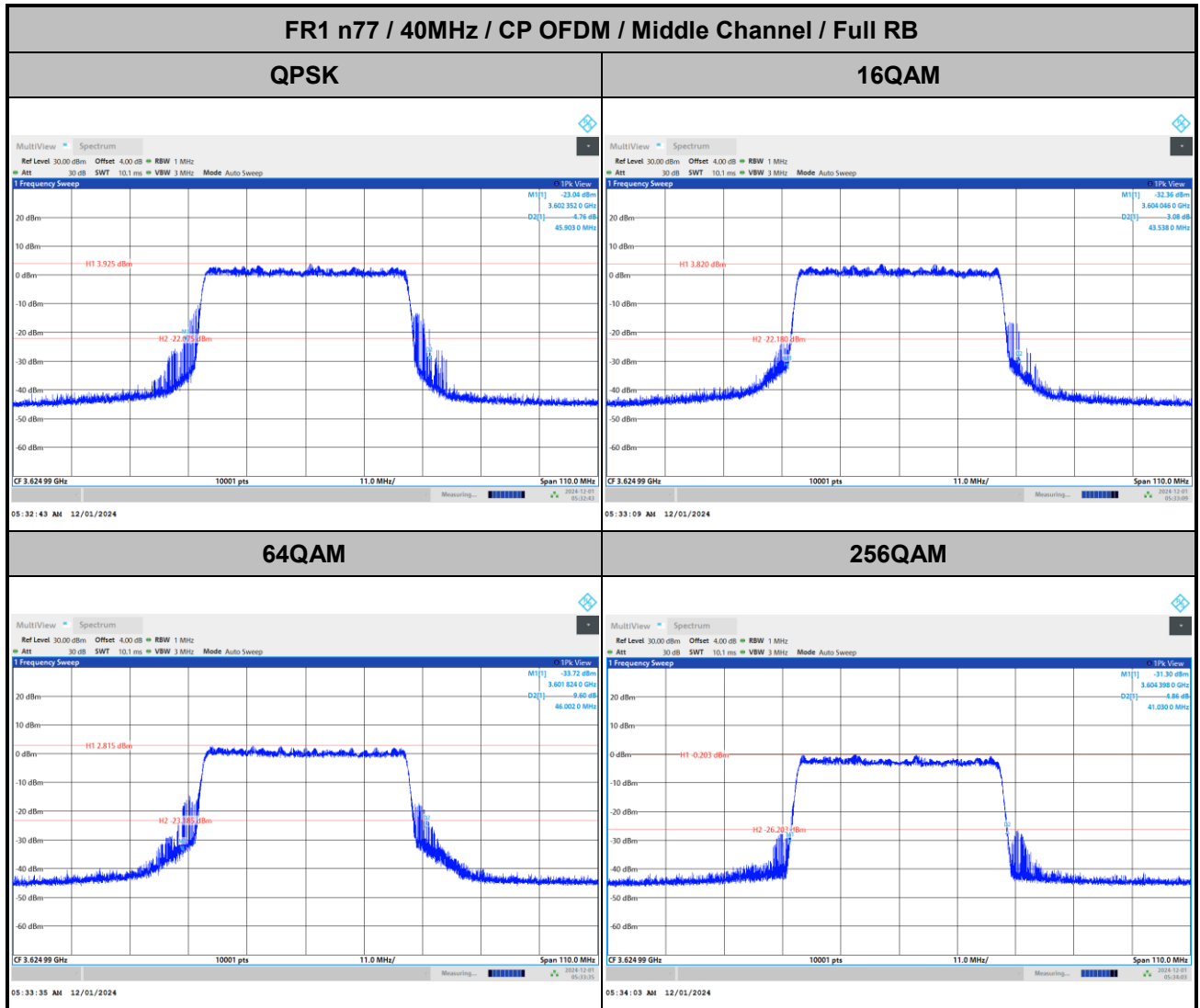


64QAM



256QAM

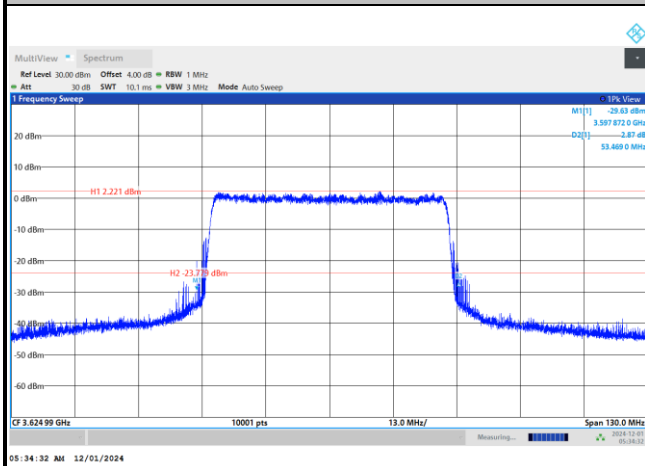




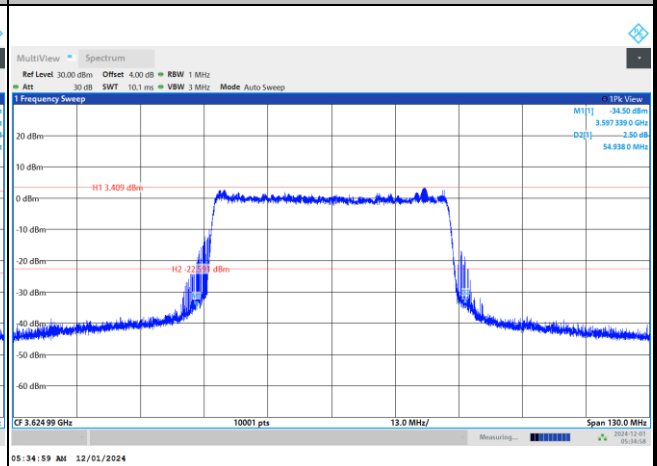


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

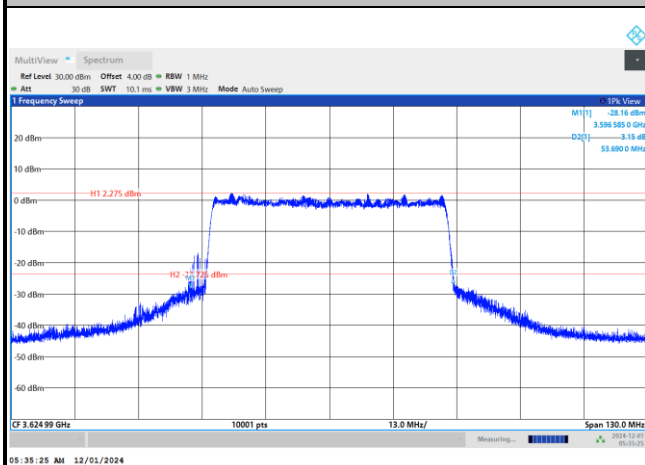
QPSK



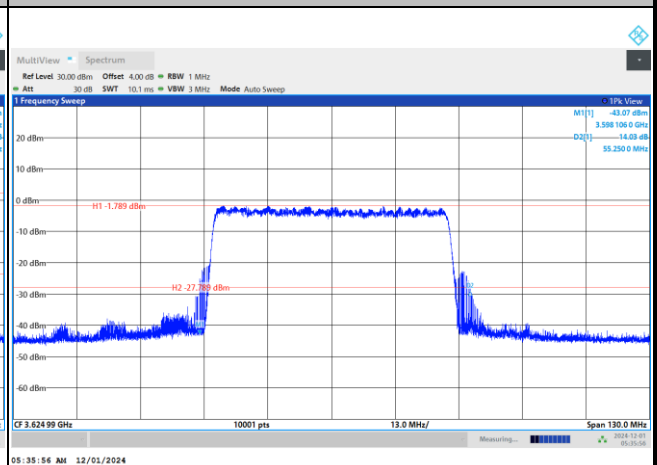
16QAM



64QAM



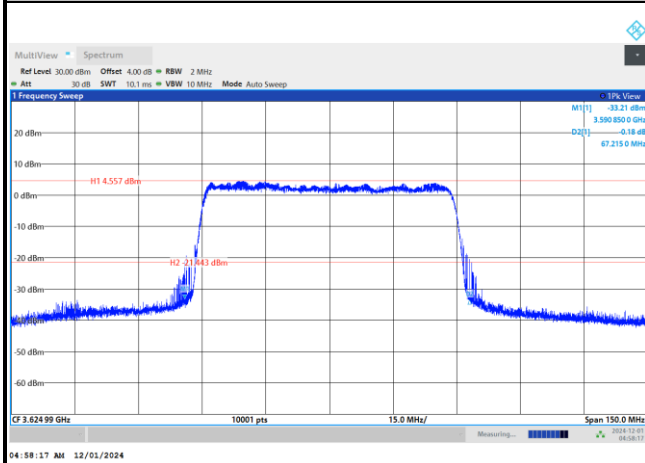
256QAM



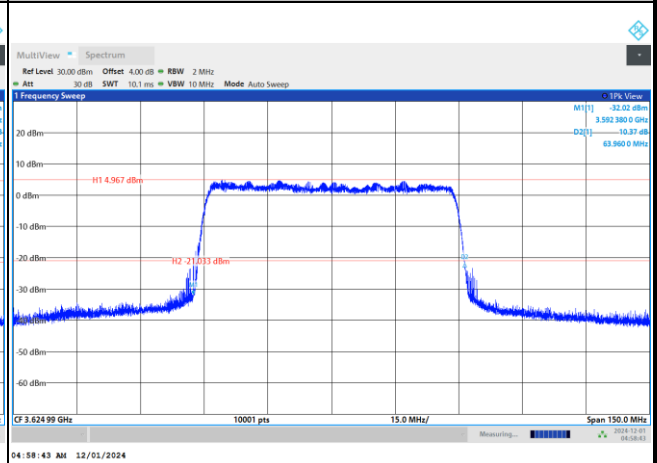


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

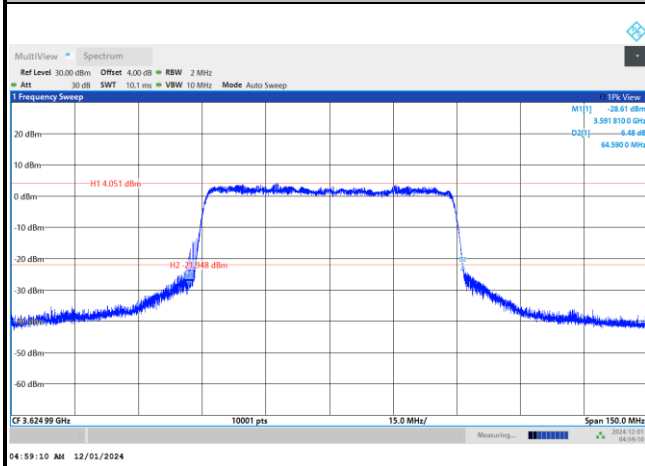
QPSK



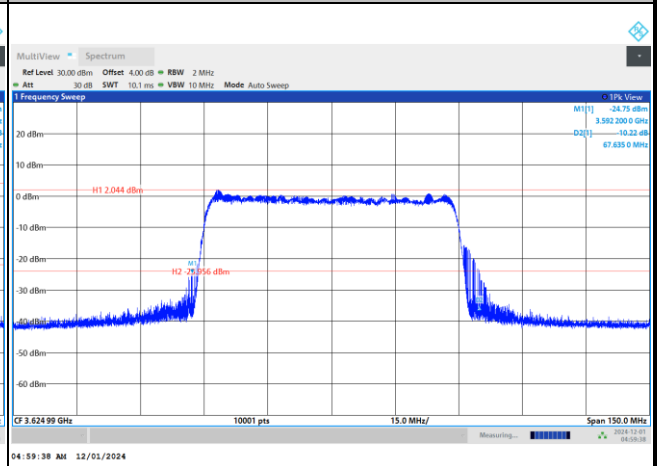
16QAM



64QAM



256QAM

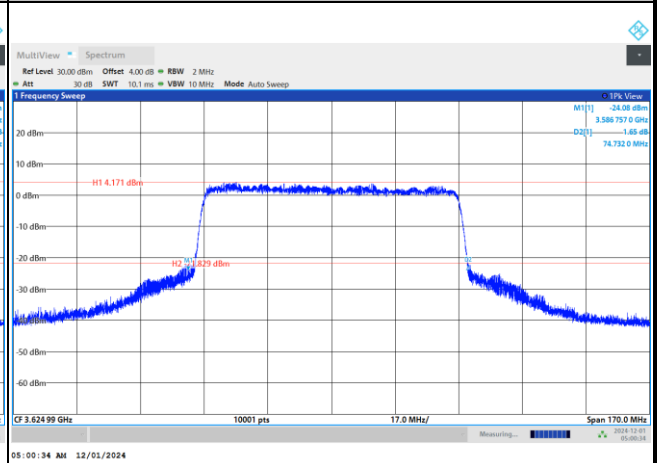
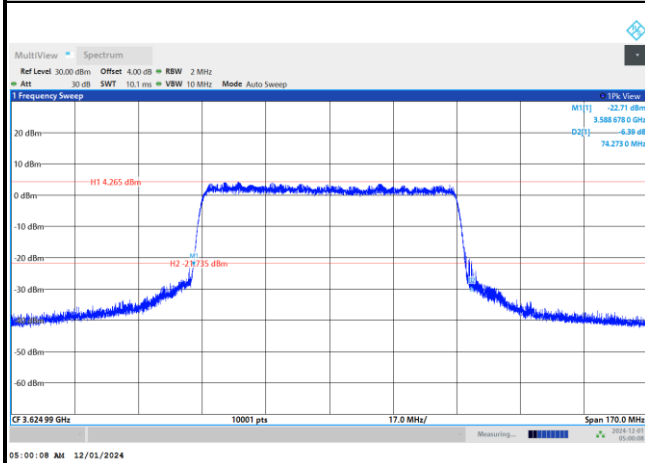




FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



64QAM

256QAM

