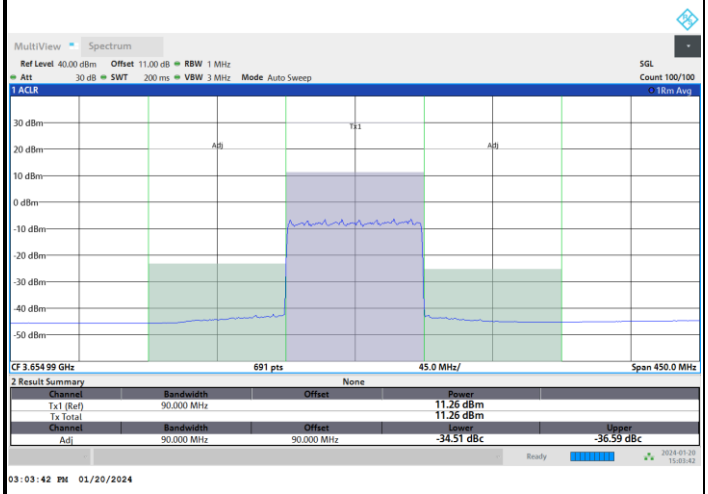
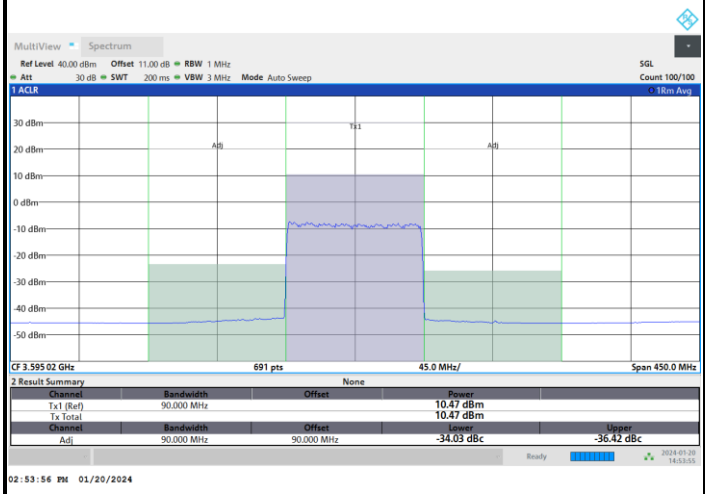
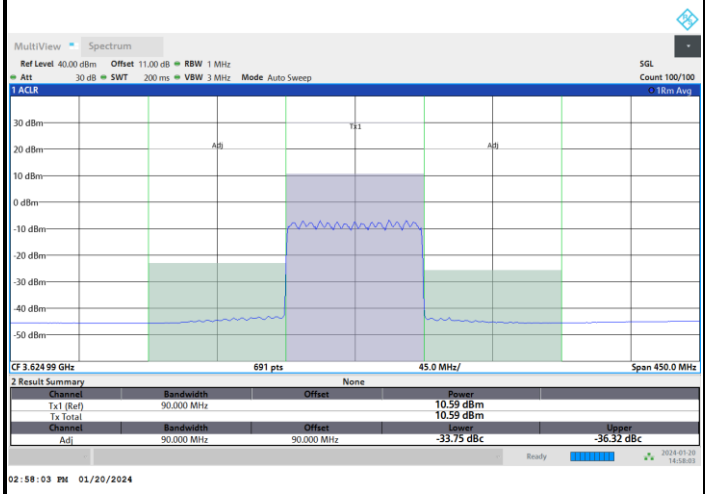
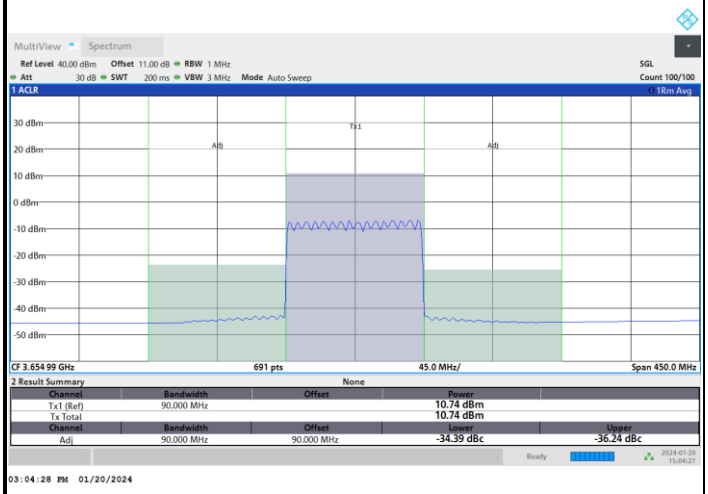
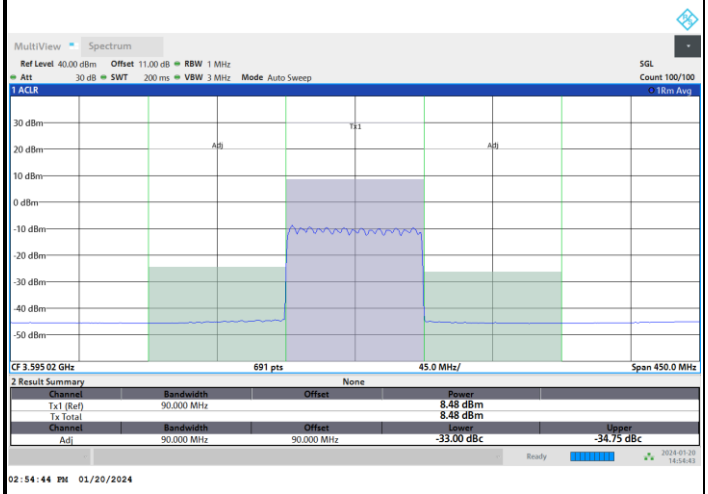
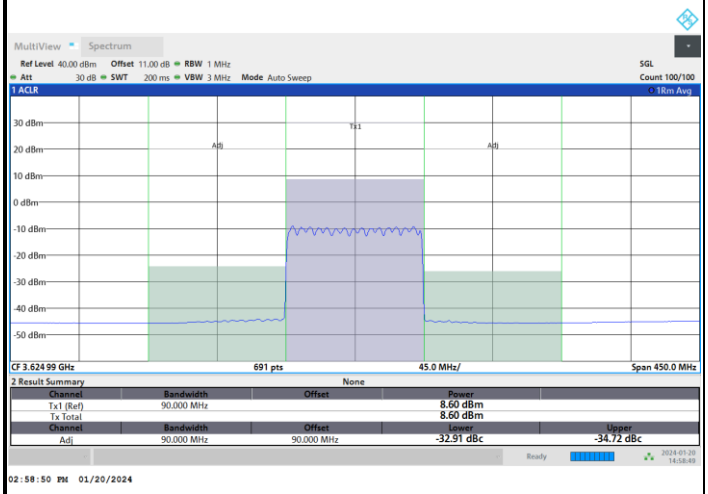
FR1 n48 / 90MHz / DFT-S OFDM / 16QAM	
Highest Channel	
Full RB	
	

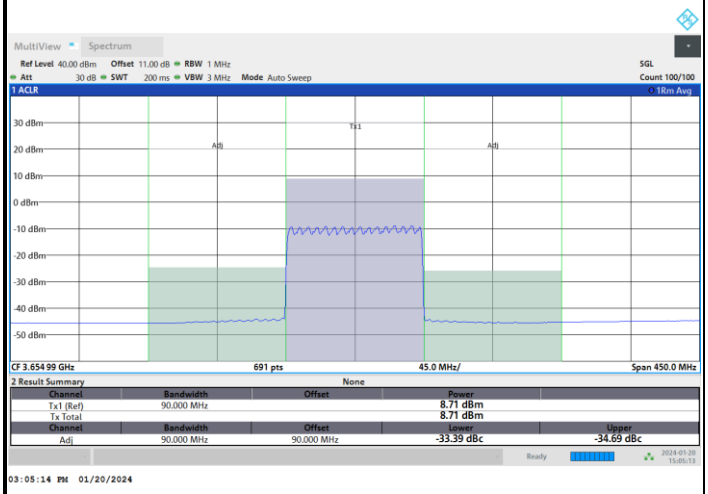
FR1 n48 / 90MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
Full RB	
	

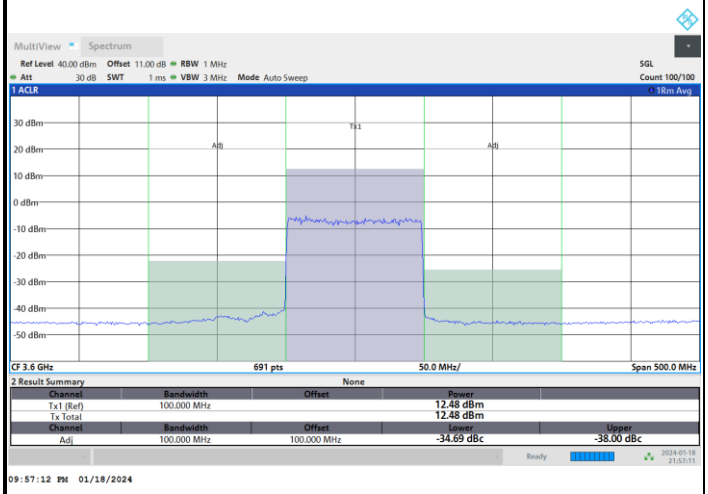
FR1 n48 / 90MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	
	

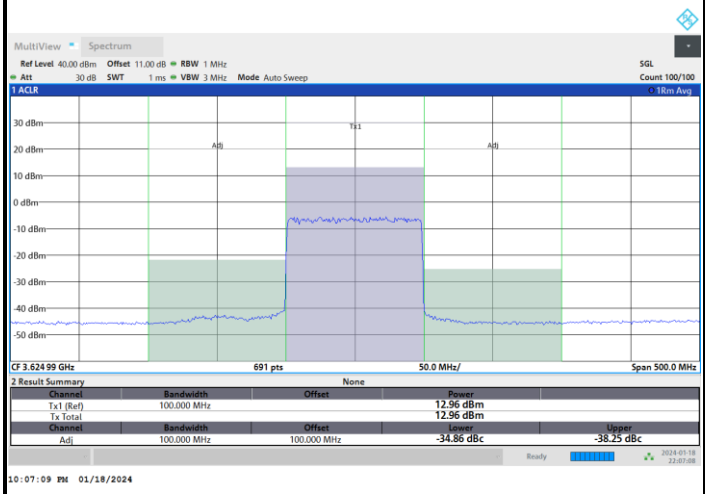
FR1 n48 / 90MHz / DFT-S OFDM / 64QAM	
Highest Channel	
Full RB	
	

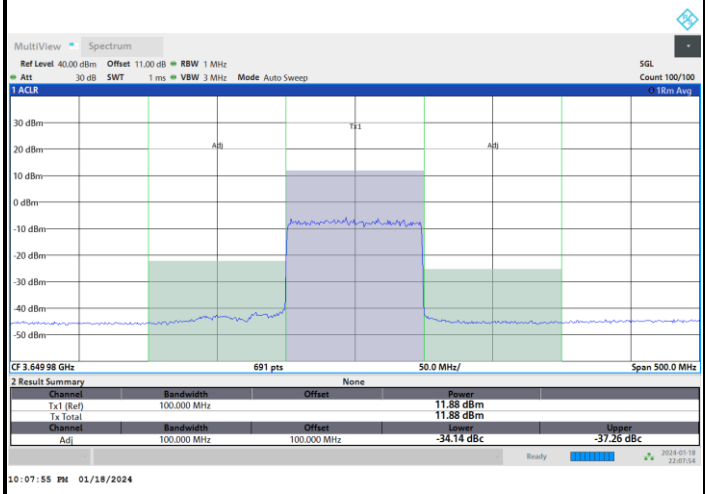
FR1 n48 / 90MHz / DFT-S OFDM / 256QAM	
Lowest Channel	
Full RB	
	

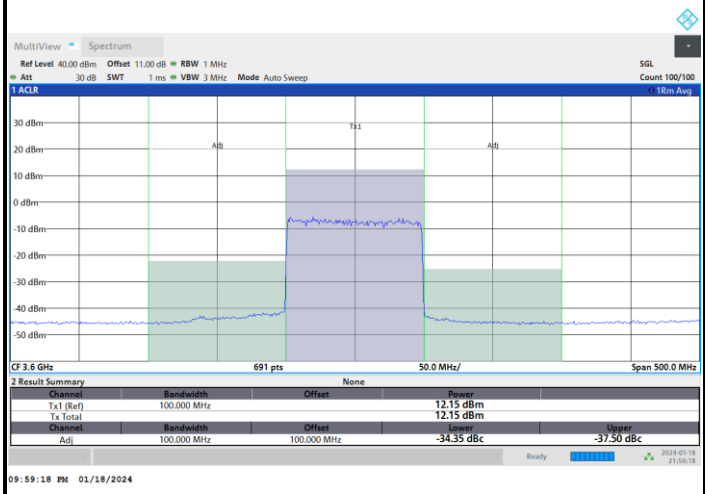
FR1 n48 / 90MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	
	

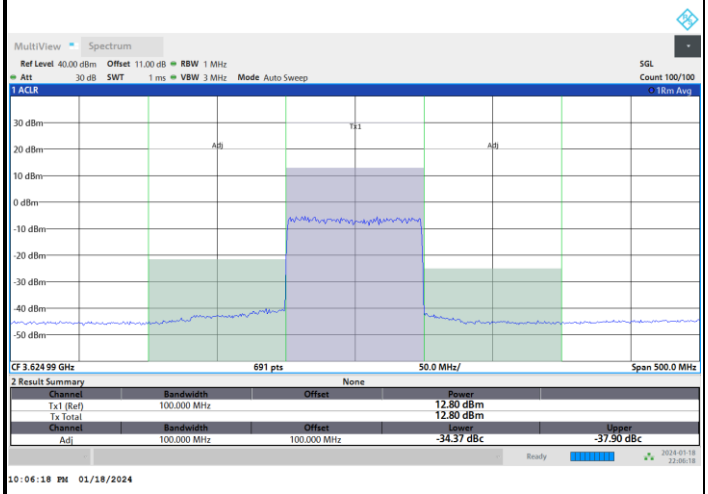
FR1 n48 / 90MHz / DFT-S OFDM / 256QAM	
Highest Channel	
Full RB	
	

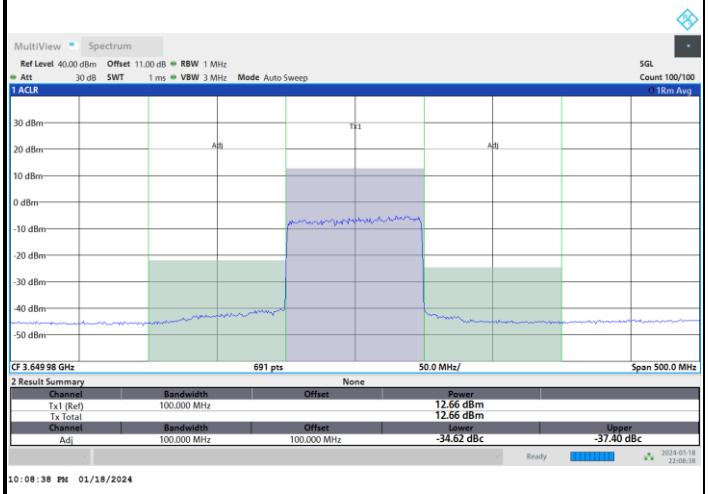
FR1 n48 / 100MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Channel	
Full RB	
	

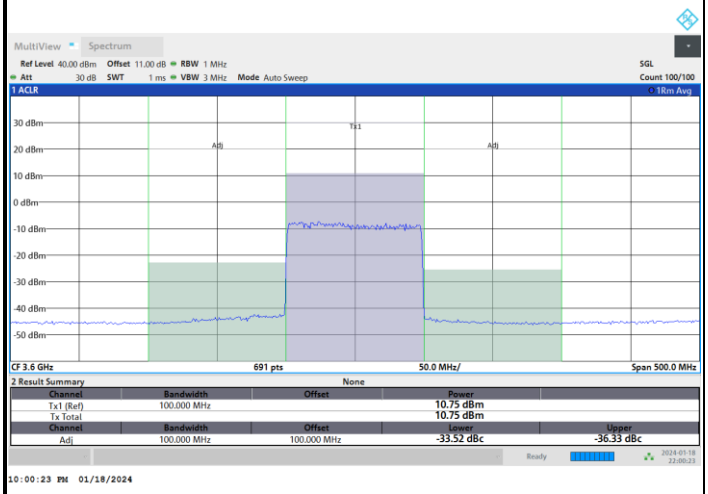
FR1 n48 / 100MHz / DFT-S OFDM / PI/2 BPSK	
Middle Channel	
Full RB	
	

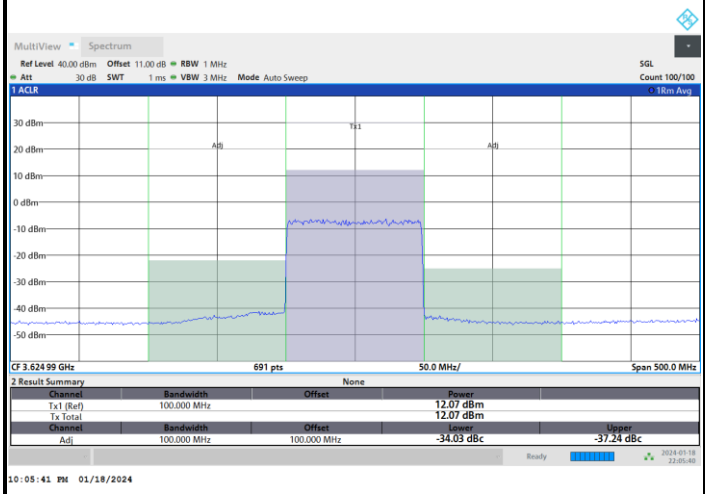
FR1 n48 / 100MHz / DFT-S OFDM / PI/2 BPSK	
Highest Channel	
Full RB	
	

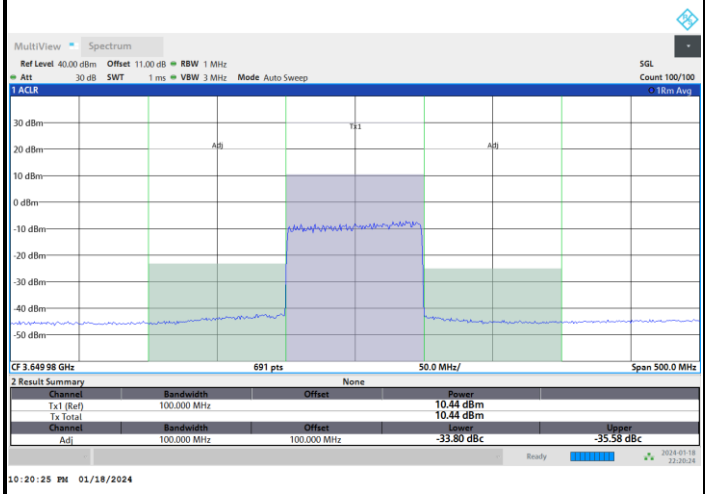
FR1 n48 / 100MHz / DFT-S OFDM / QPSK	
Lowest Channel	
Full RB	
	

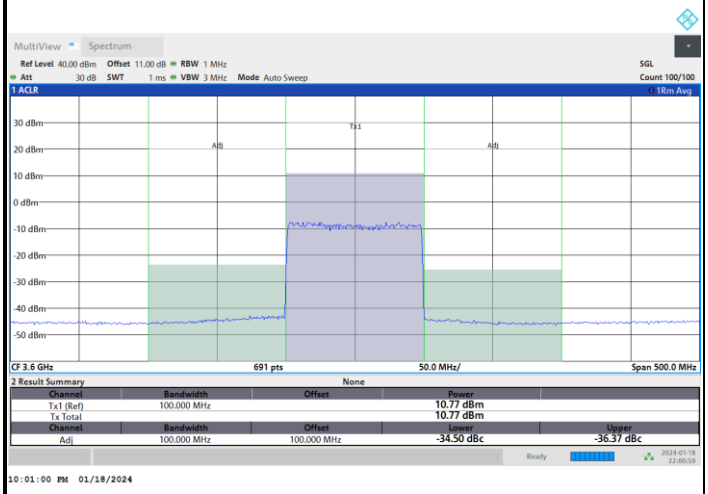
FR1 n48 / 100MHz / DFT-S OFDM / QPSK	
Middle Channel	
Full RB	
	

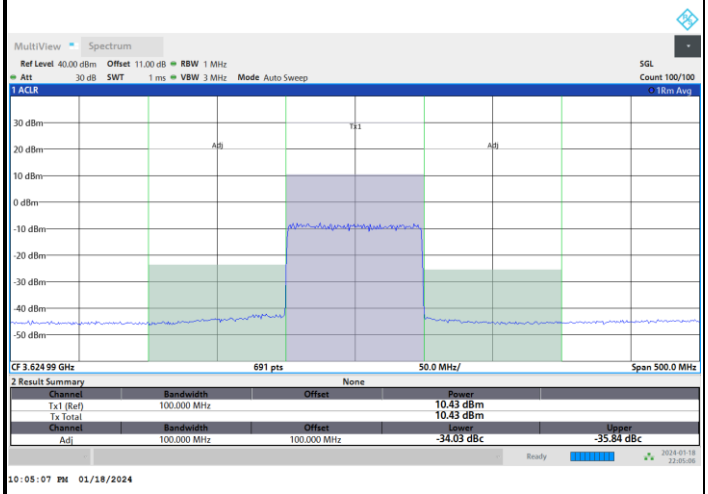
FR1 n48 / 100MHz / DFT-S OFDM / QPSK	
Highest Channel	
Full RB	
	

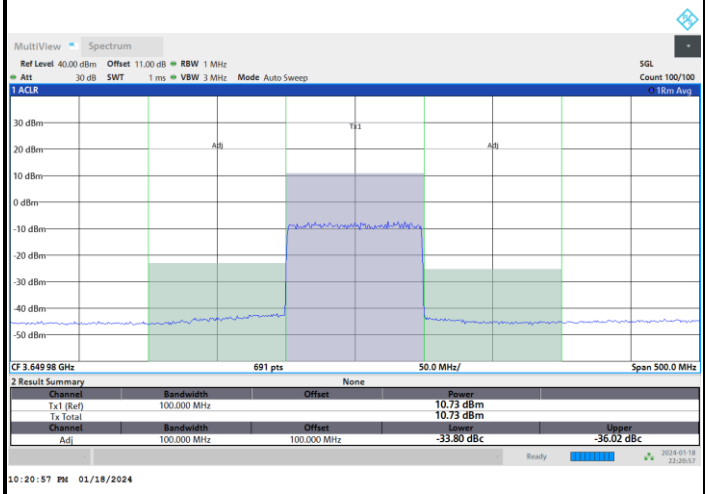
FR1 n48 / 100MHz / DFT-S OFDM / 16QAM	
Lowest Channel	
Full RB	
	

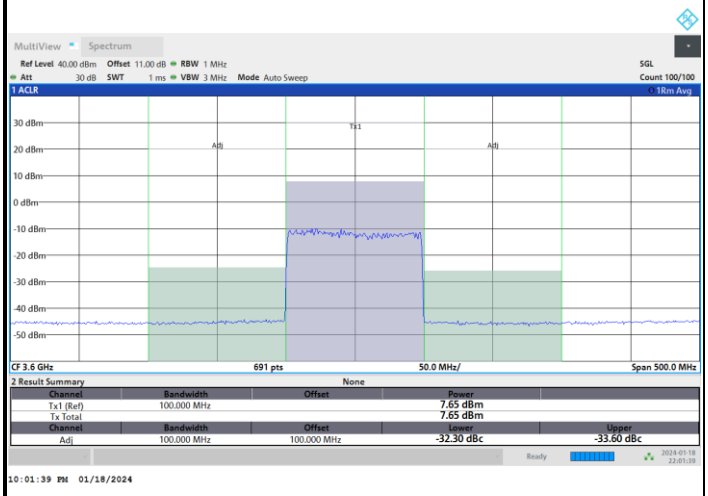
FR1 n48 / 100MHz / DFT-S OFDM / 16QAM	
Middle Channel	
Full RB	
	

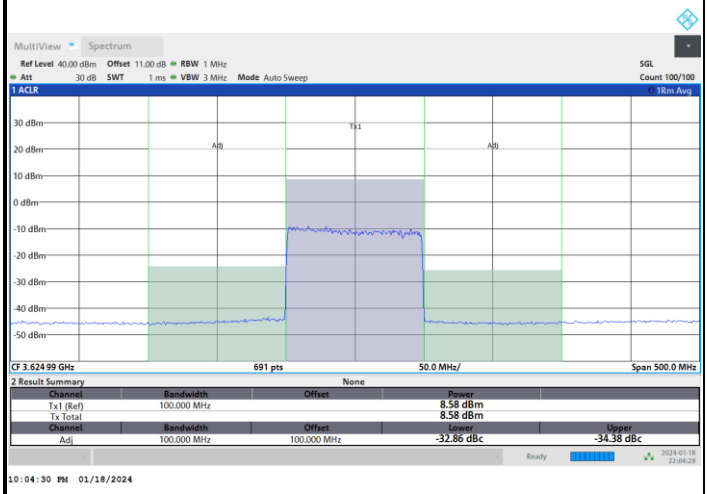
FR1 n48 / 100MHz / DFT-S OFDM / 16QAM	
Highest Channel	
Full RB	
	

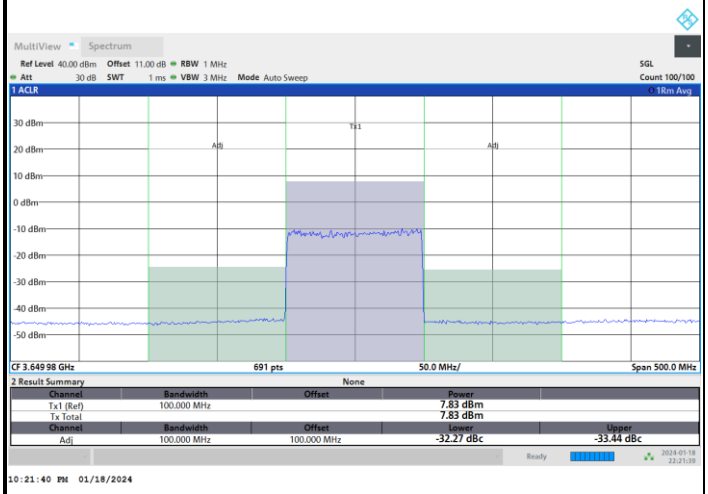
FR1 n48 / 100MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
Full RB	
	

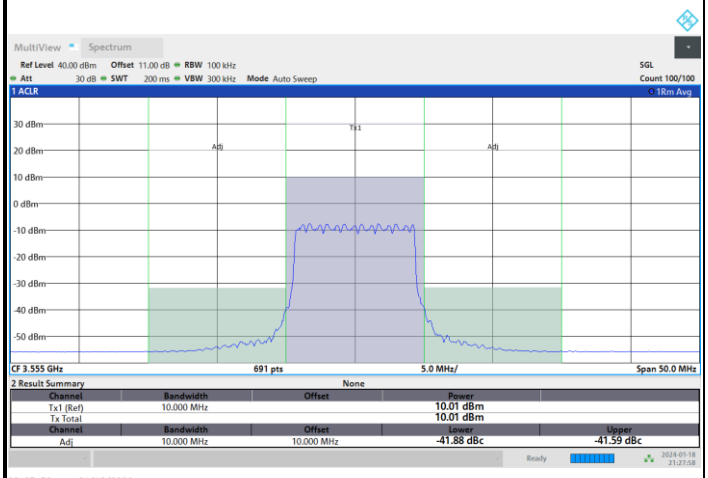
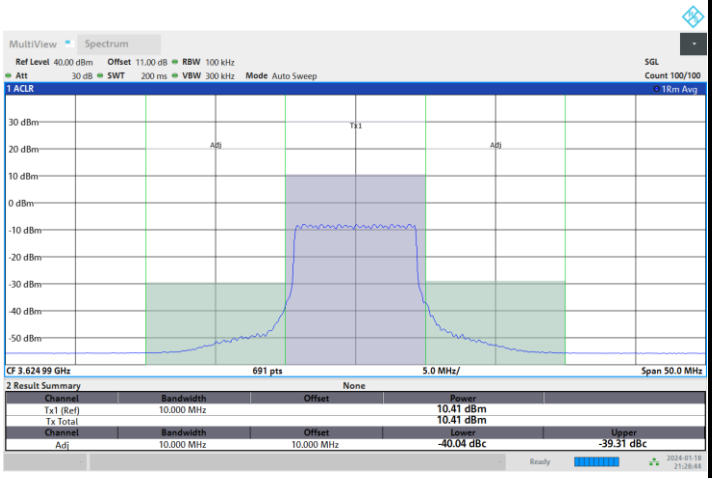
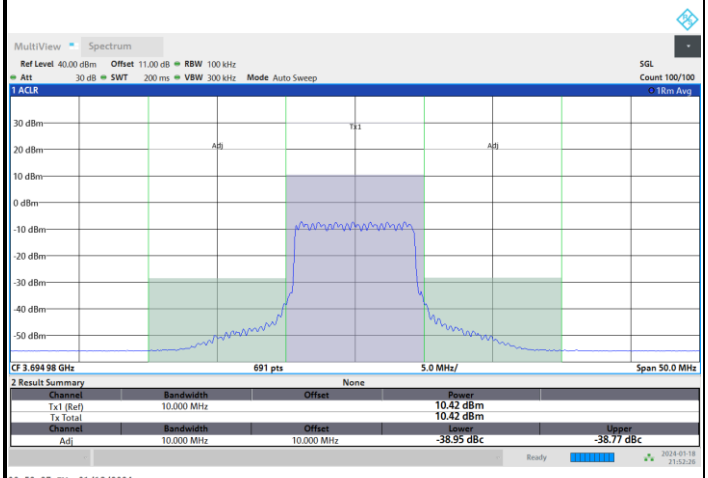
FR1 n48 / 100MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	
	

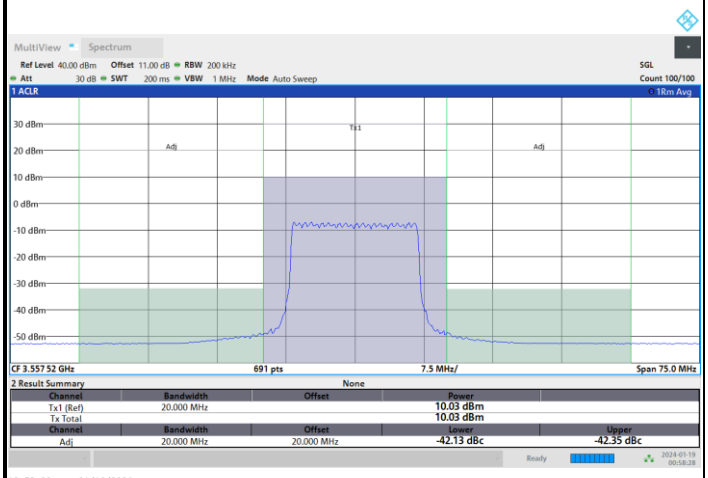
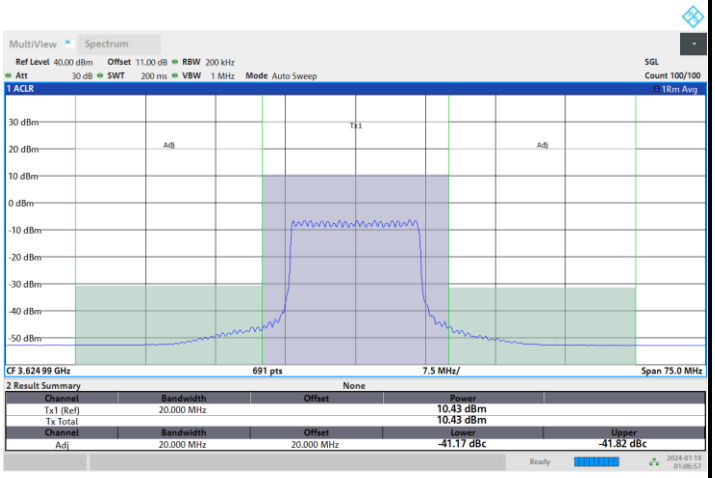
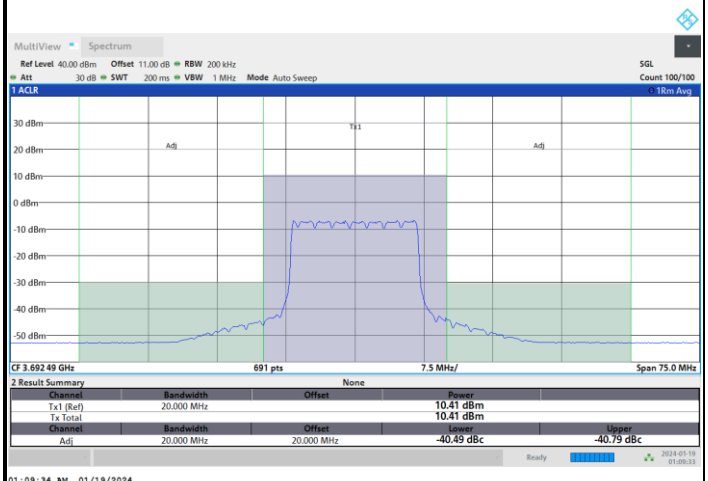
FR1 n48 / 100MHz / DFT-S OFDM / 64QAM	
Highest Channel	
Full RB	
	

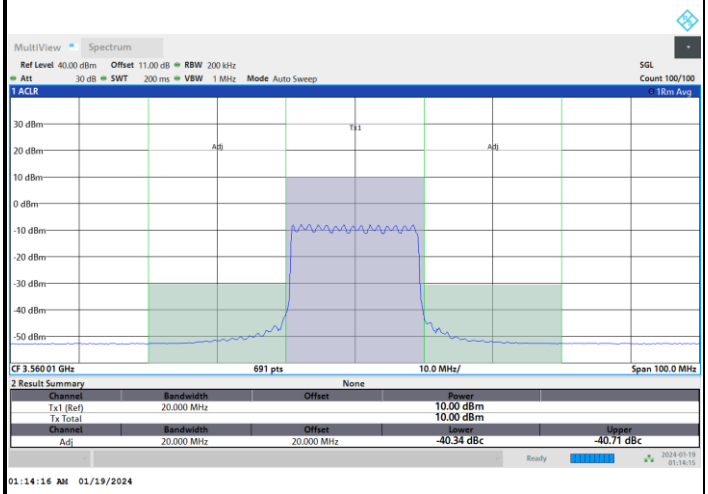
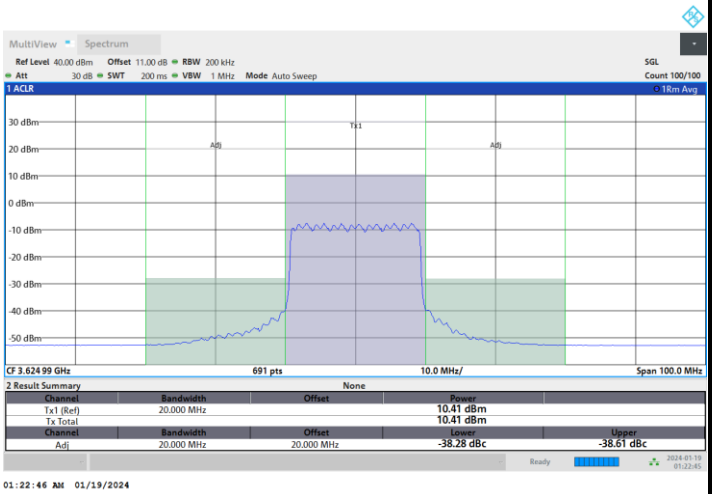
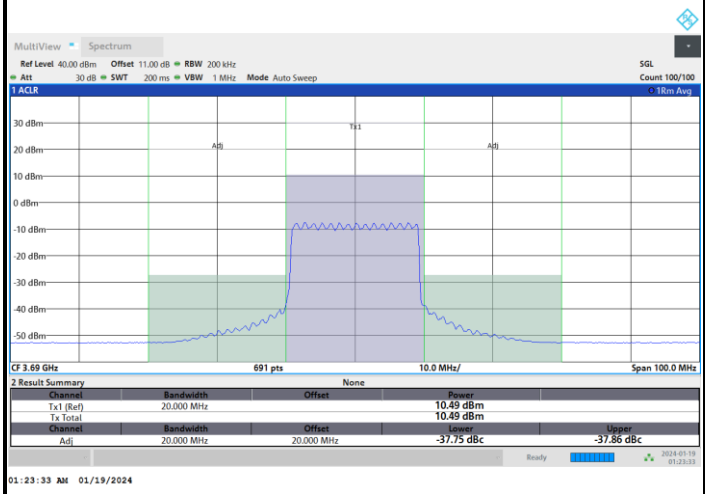
FR1 n48 / 100MHz / DFT-S OFDM / 256QAM	
Lowest Channel	
Full RB	
	

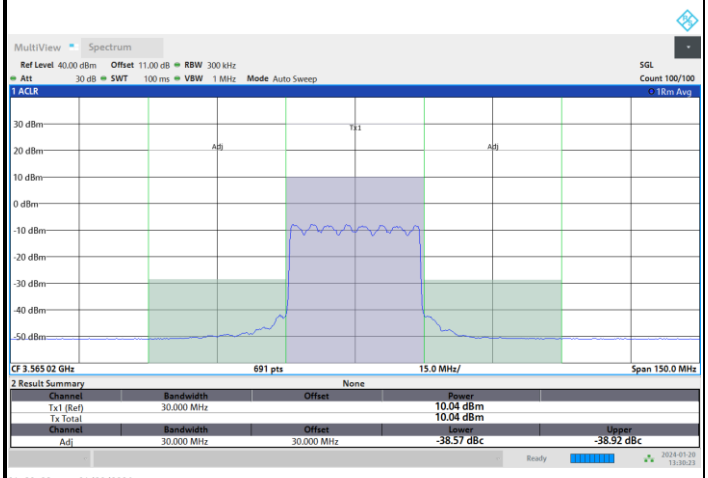
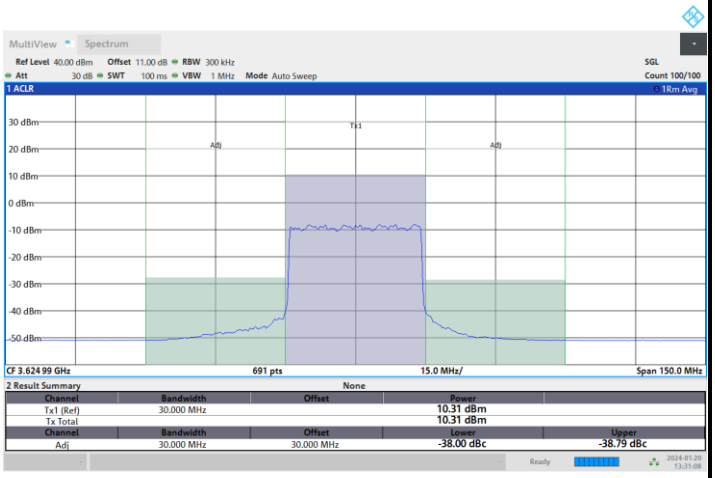
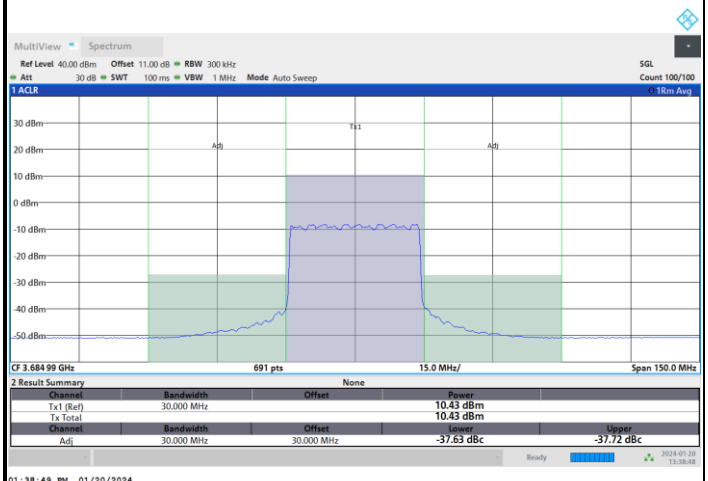
FR1 n48 / 100MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	
	

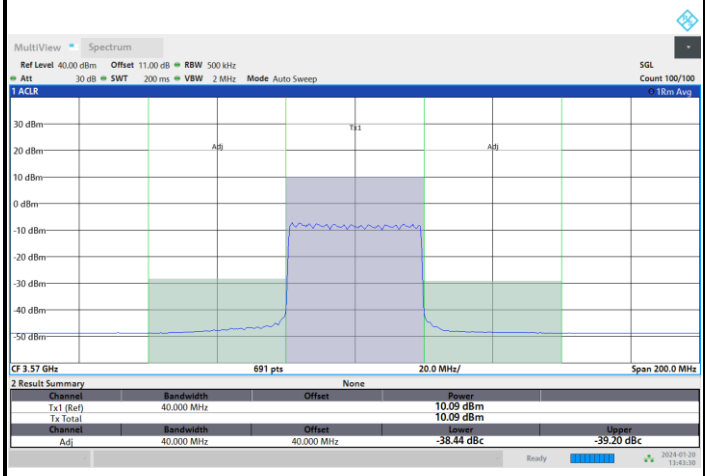
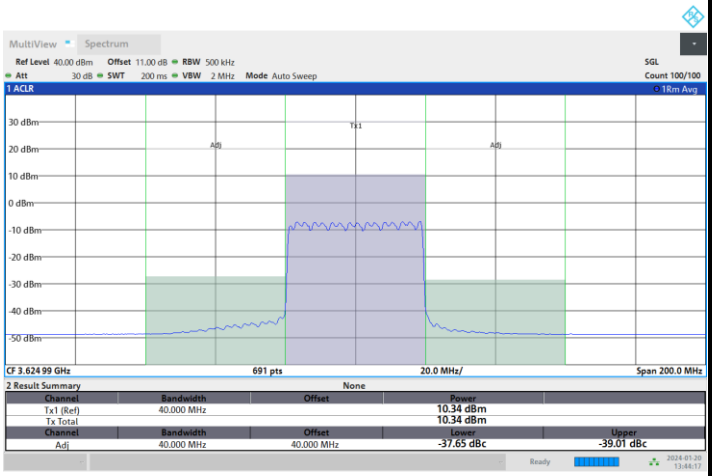
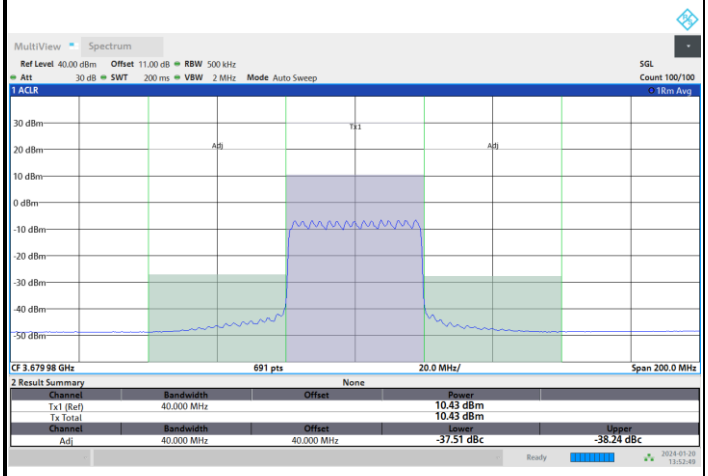
FR1 n48 / 100MHz / DFT-S OFDM / 256QAM	
Highest Channel	
Full RB	
	

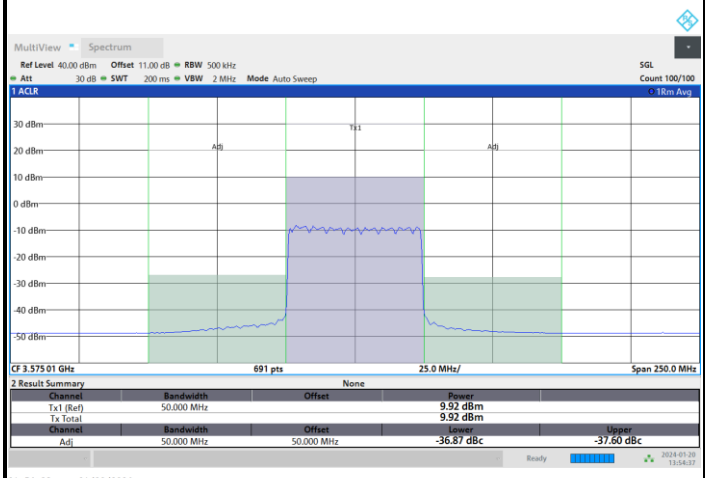
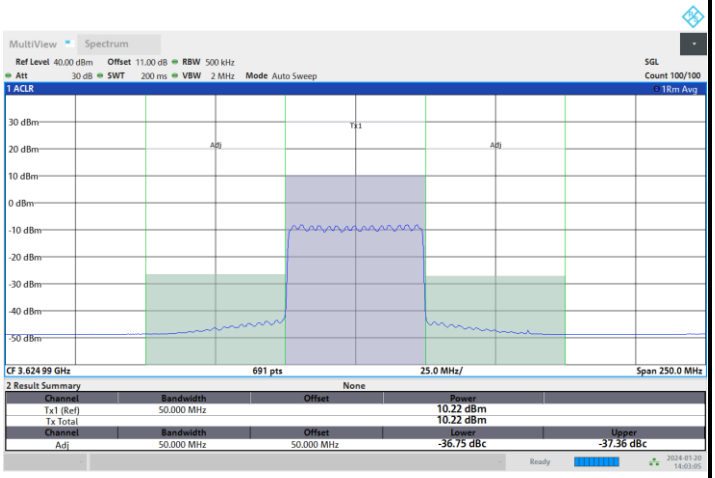
FR1 n48 / 10MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

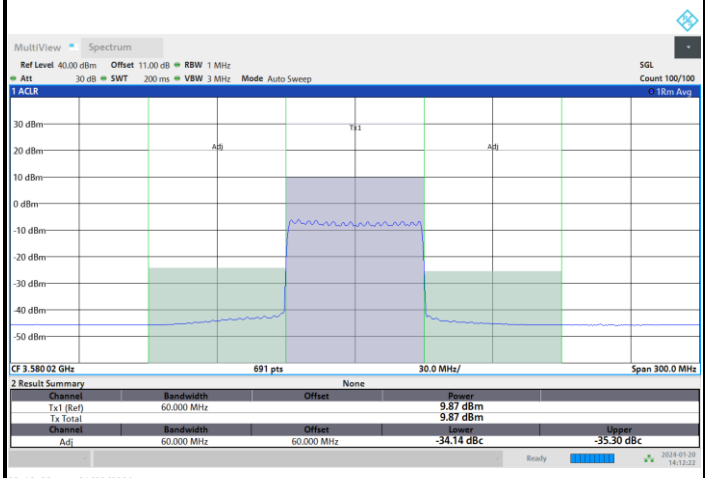
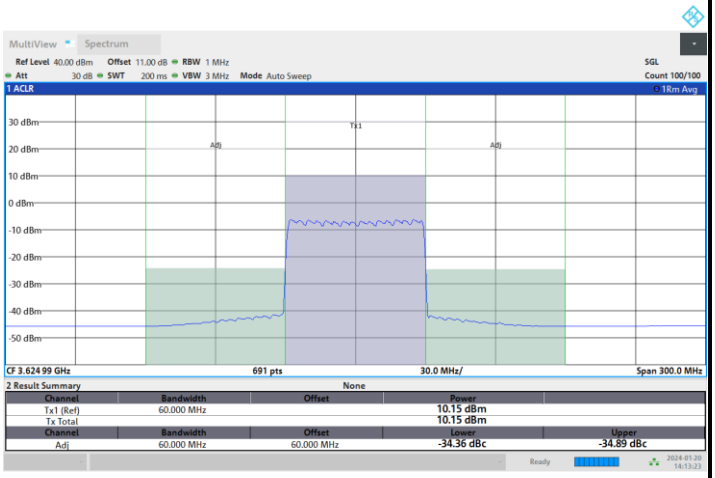
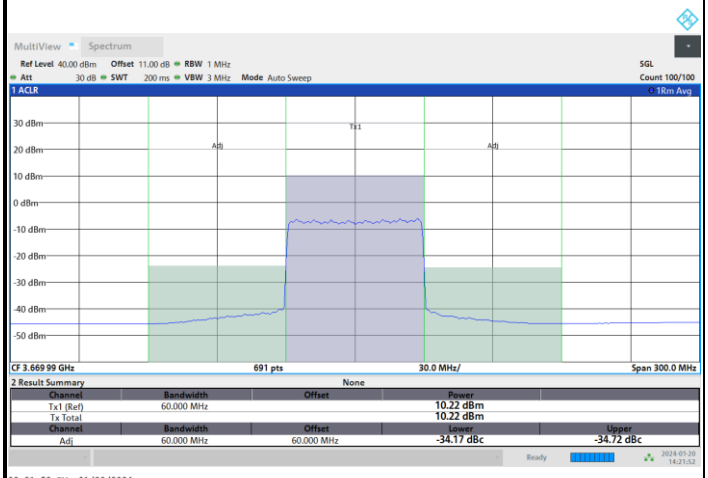
FR1 n48 / 15MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

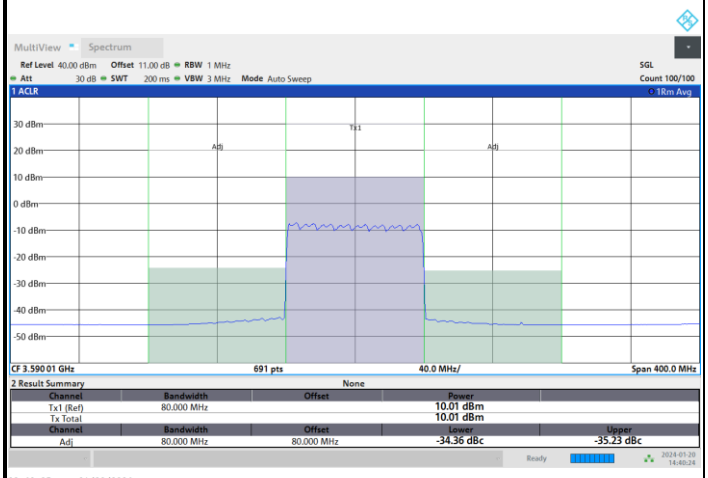
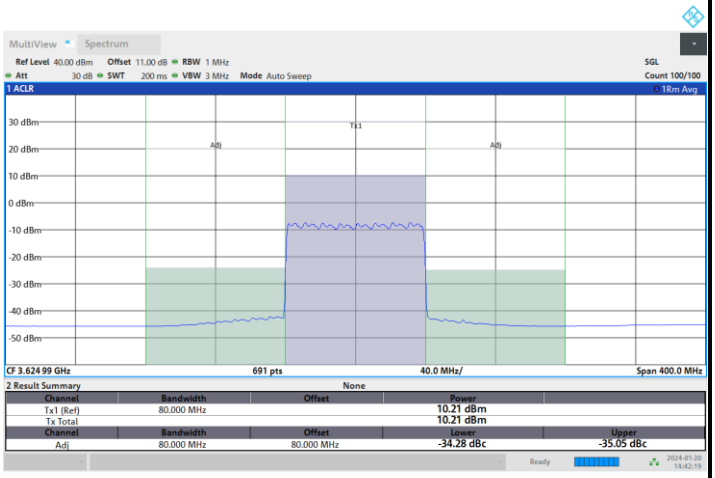
FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

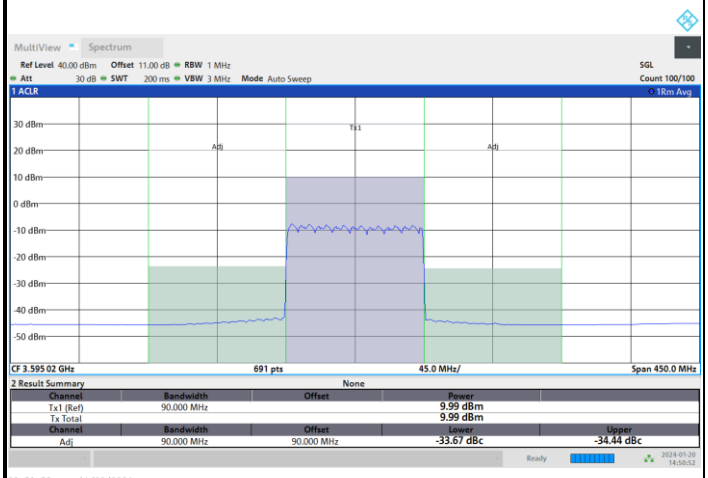
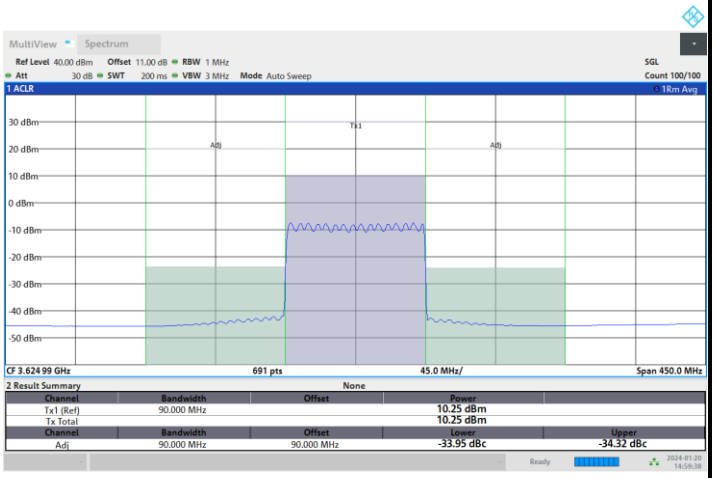
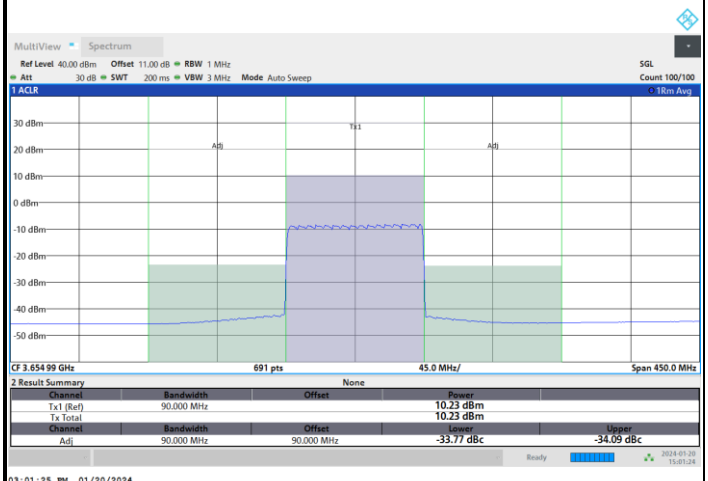
FR1 n48 / 30MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

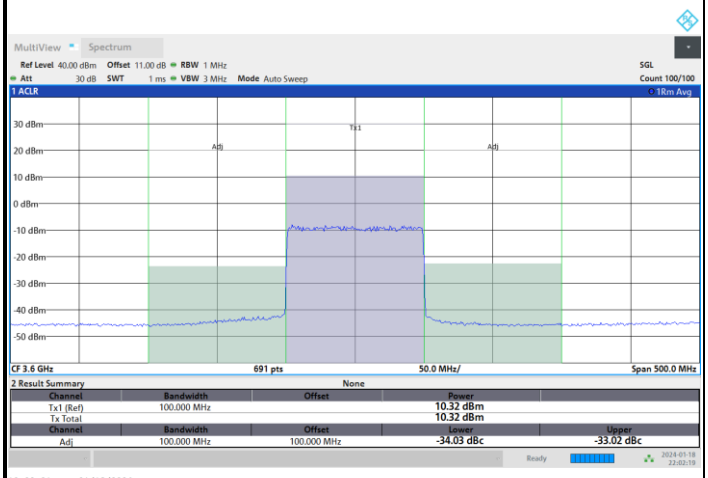
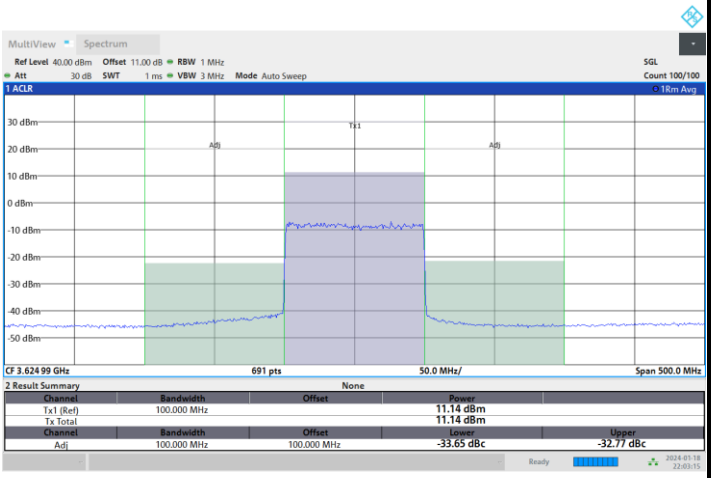
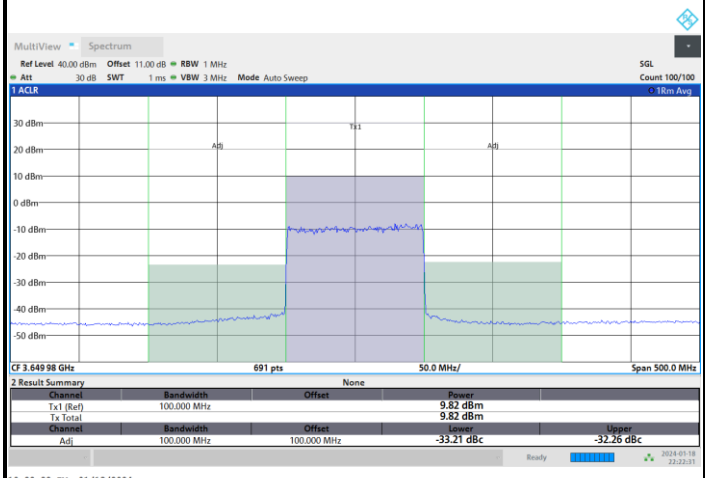
FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

FR1 n48 / 50MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

FR1 n48 / 60MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

FR1 n48 / 80MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

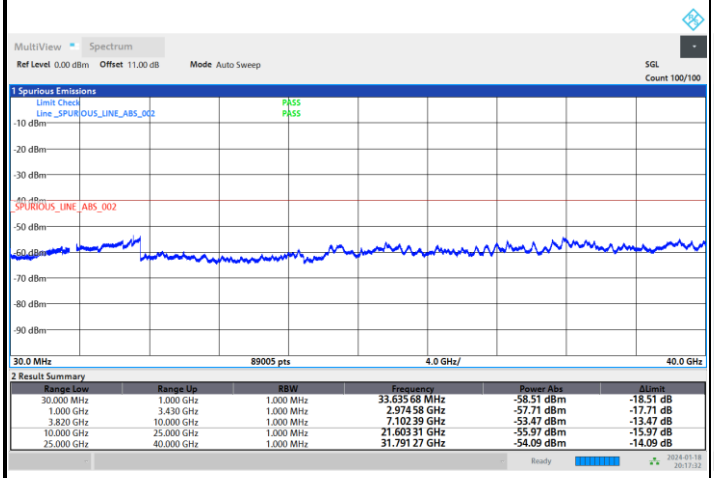
FR1 n48 / 90MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

FR1 n48 / 100MHz / CP OFDM / QPSK / Full RB	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

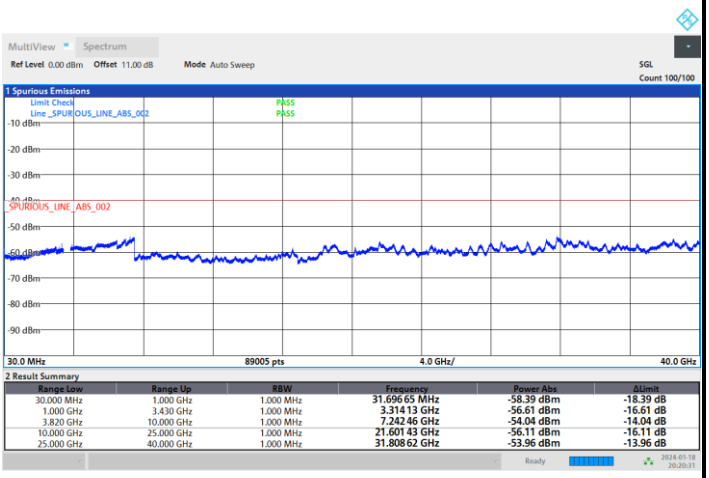
Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

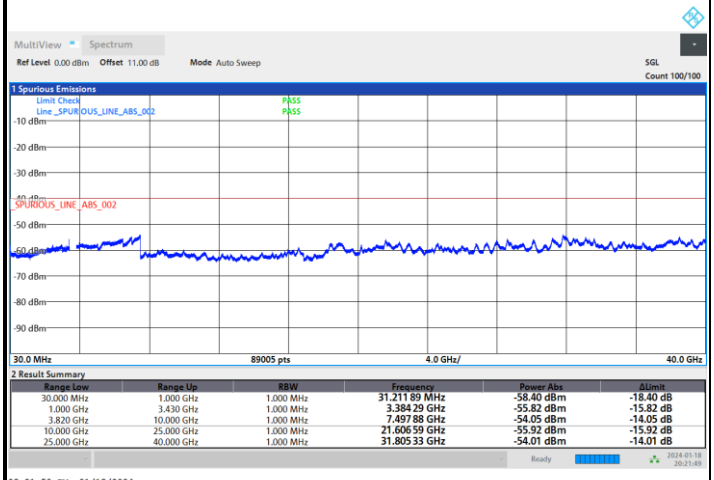
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0027	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage = 3.8 V.；Battery End Point (BEP) = 3.6 V.；Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

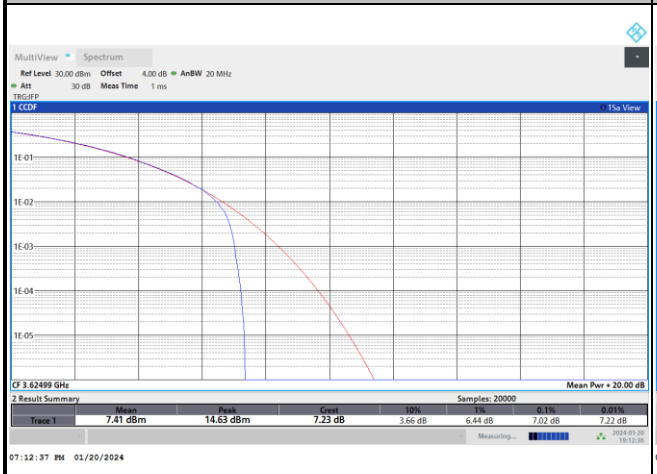
<MIMO Mode>
MIMO <Ant. 8>

Peak-to-Average Ratio

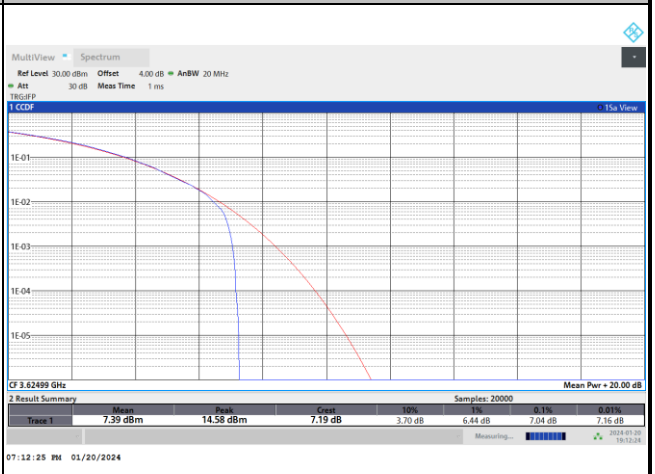
Mode	FR1 n77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.02	7.04	7.42	8.60	PASS

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

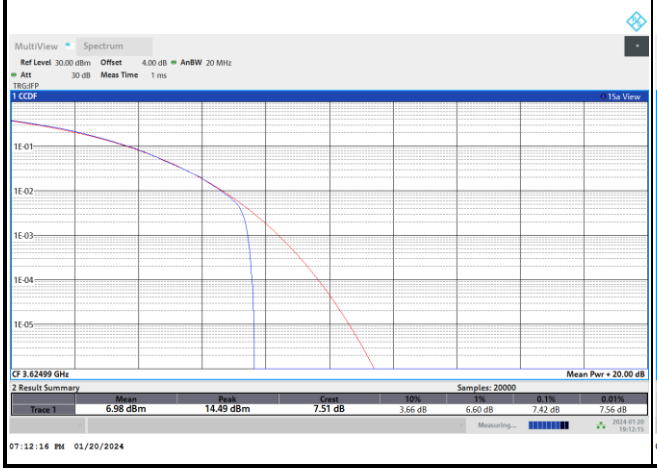
QPSK



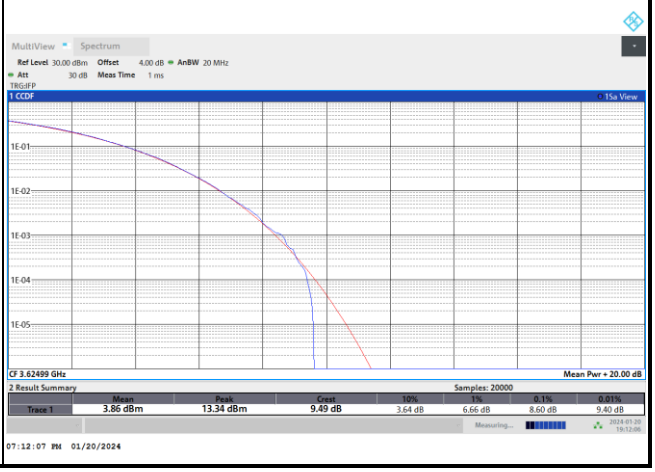
16QAM



64QAM

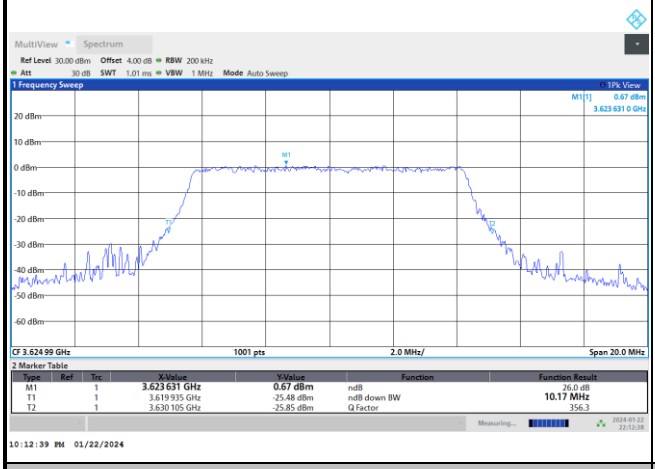
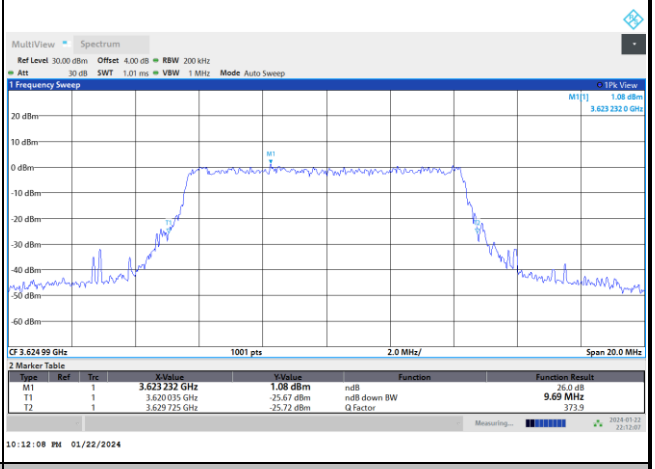
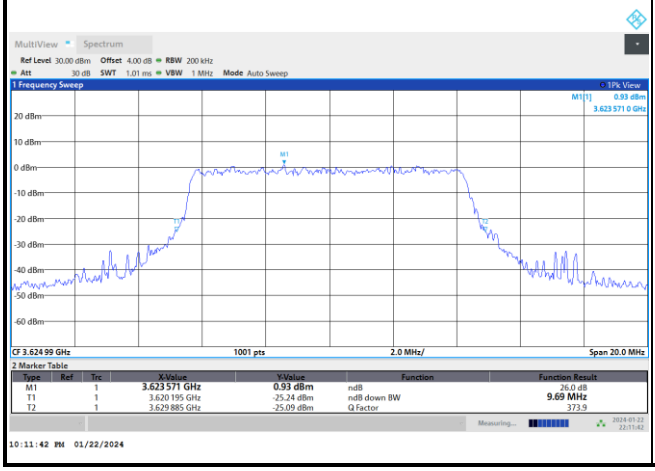
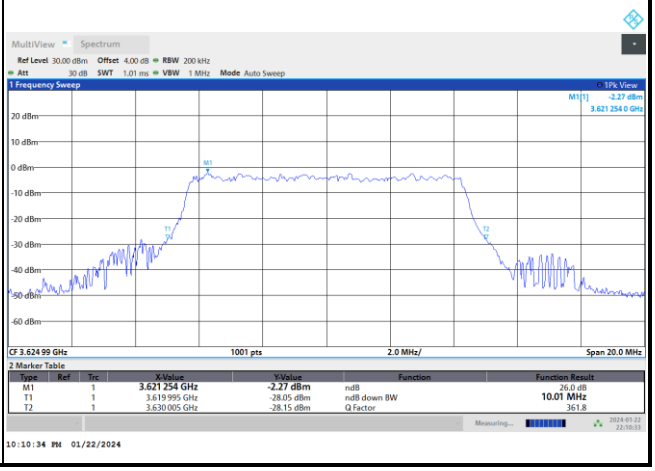


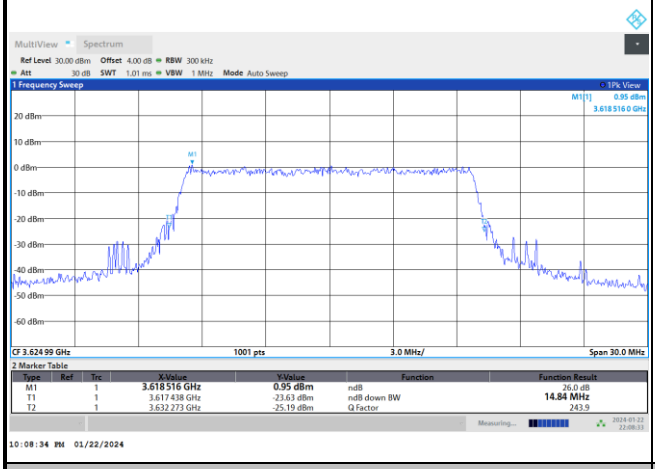
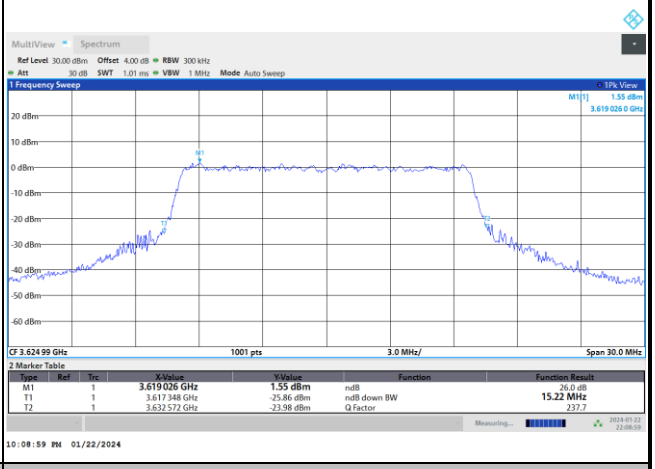
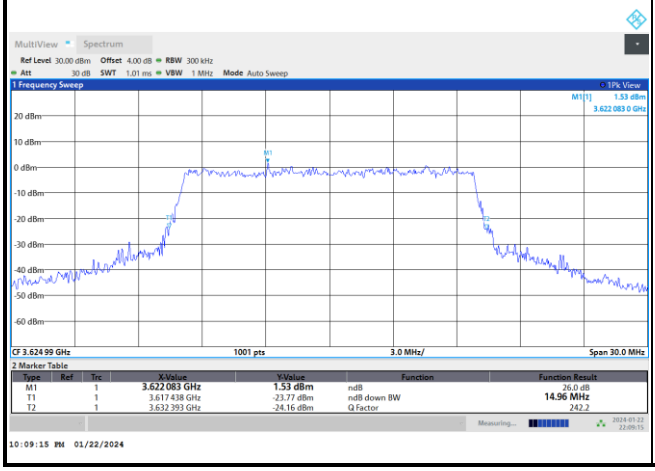
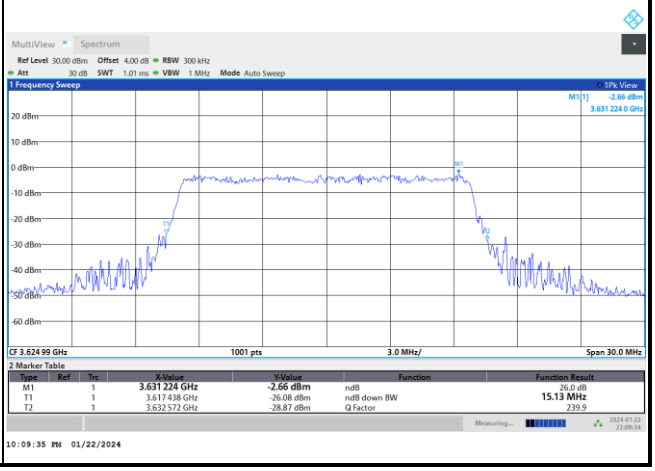
256QAM

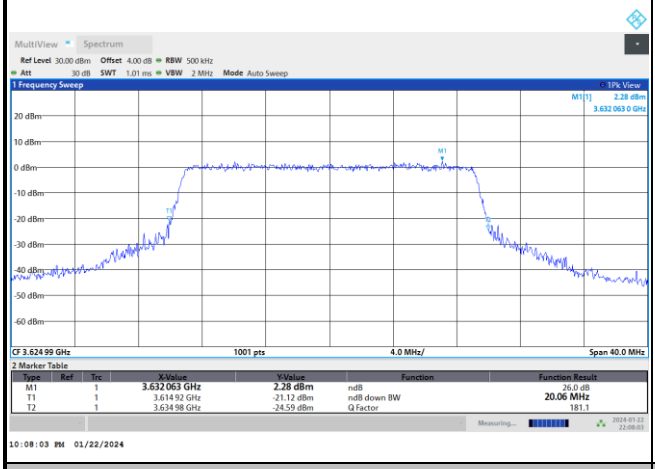
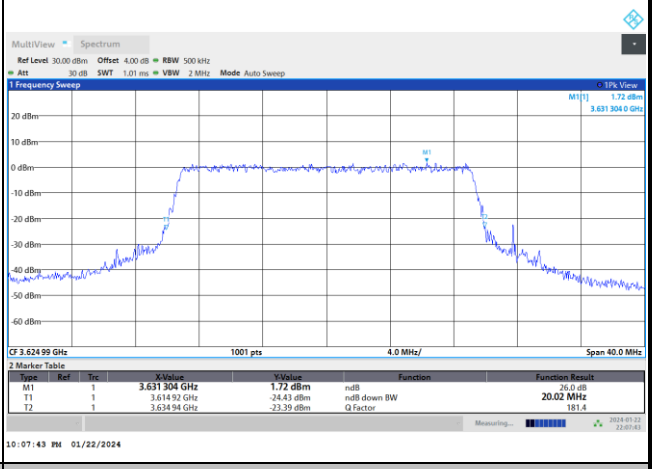
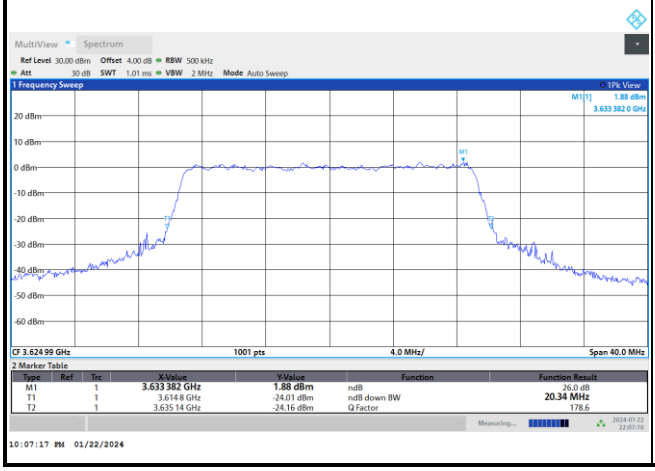


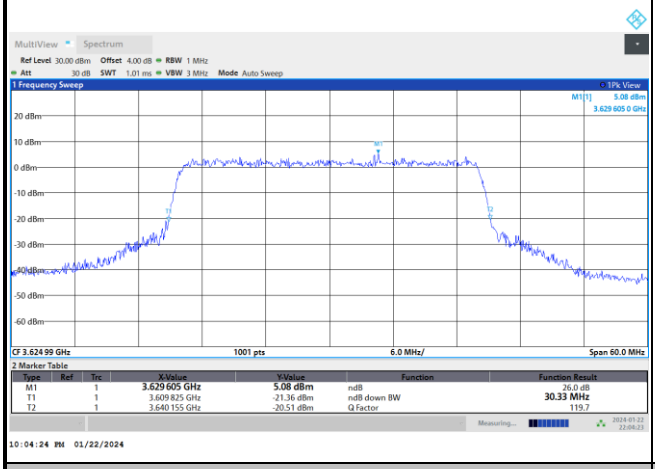
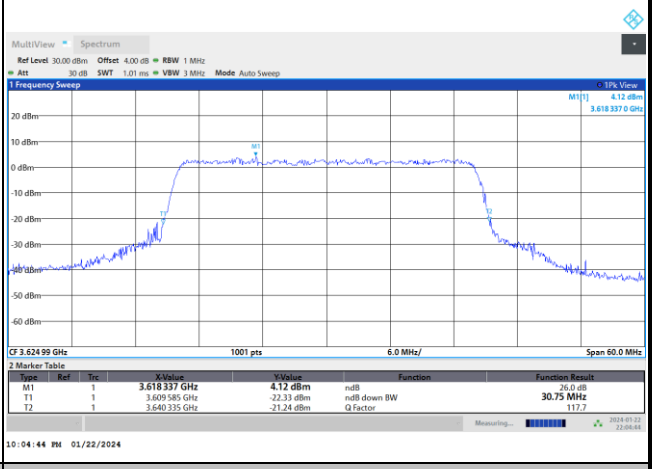
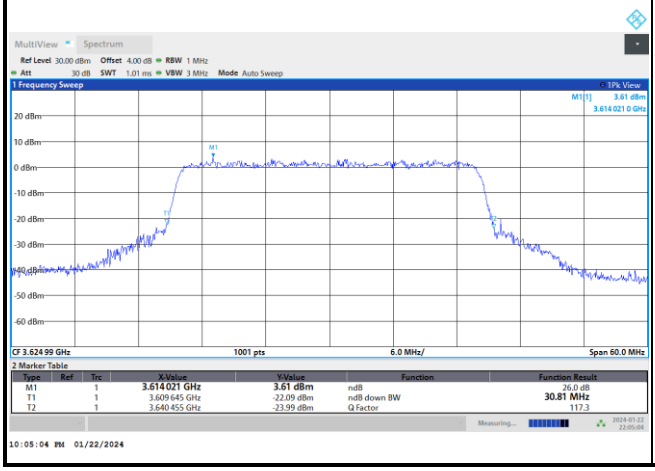
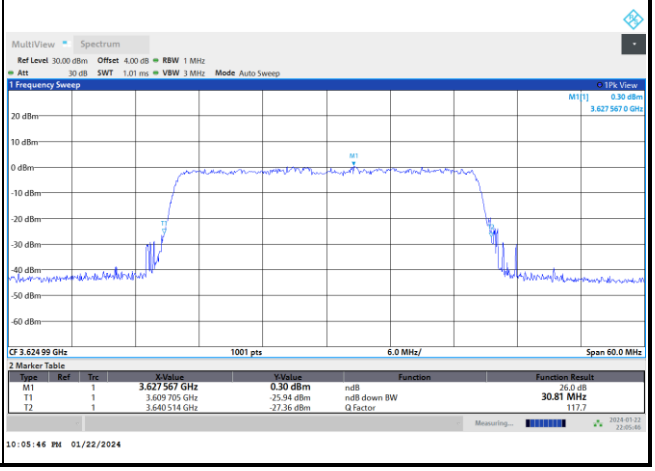
26dB Bandwidth

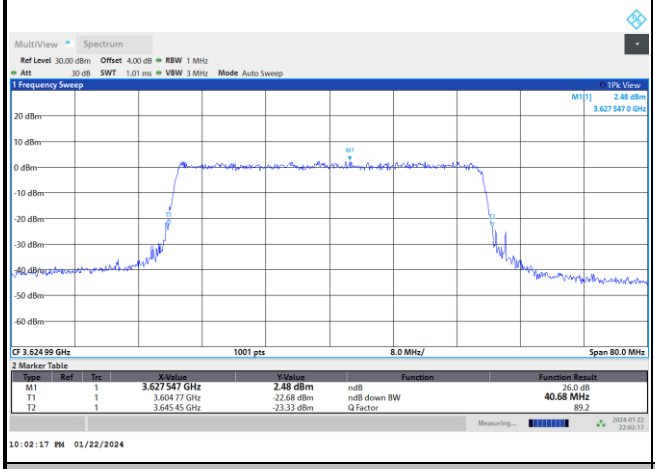
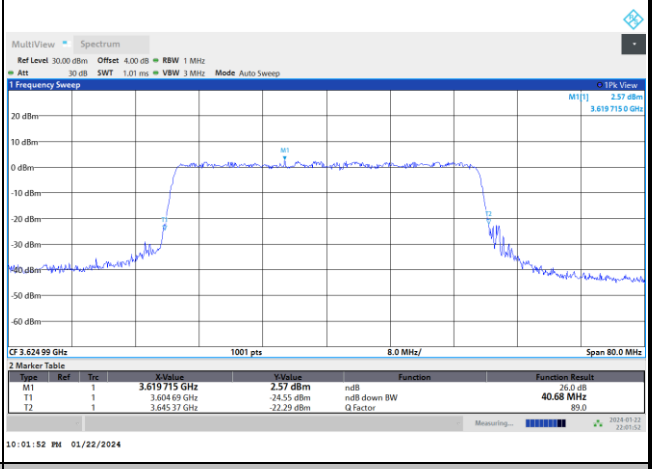
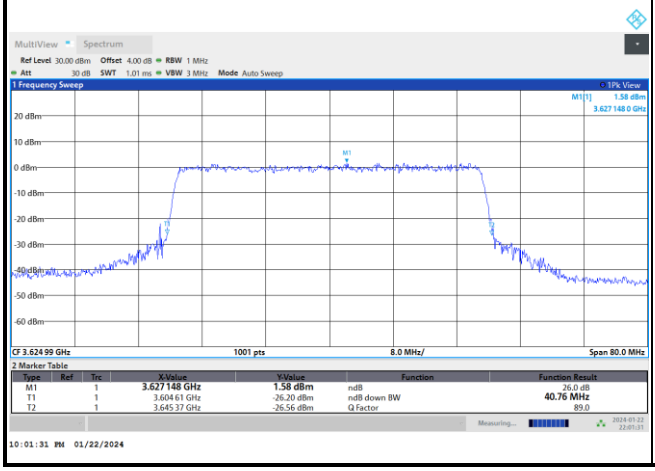
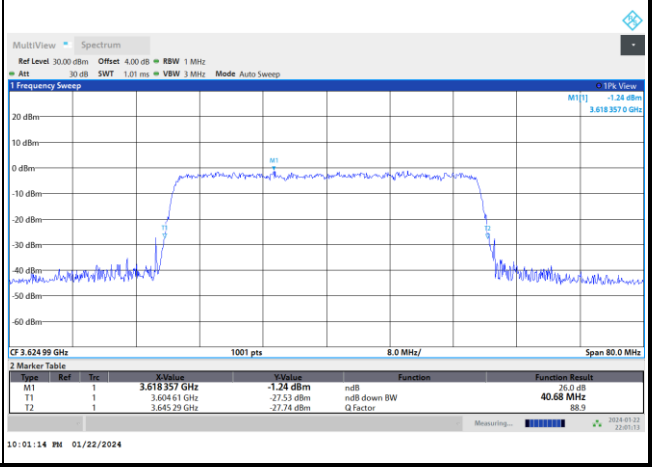
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.17	9.69	14.84	15.22	20.06	20.02	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.69	10.01	14.96	15.13	20.34	20.18	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	30.33	30.75	40.68	40.68	50.75	50.25	62.82	62.82
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	30.81	30.81	40.76	40.68	50.55	50.55	62.82	62.58
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	72.73	72.45	80.40	80.56	92.97	92.79	102.70	102.70
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	72.73	72.45	80.56	81.20	92.97	92.97	102.70	103.10

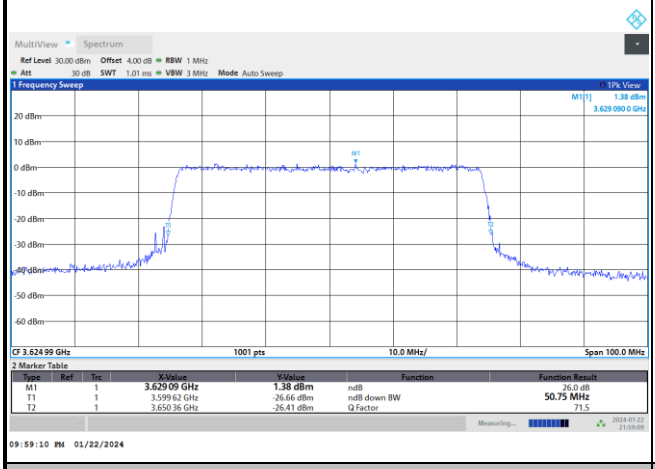
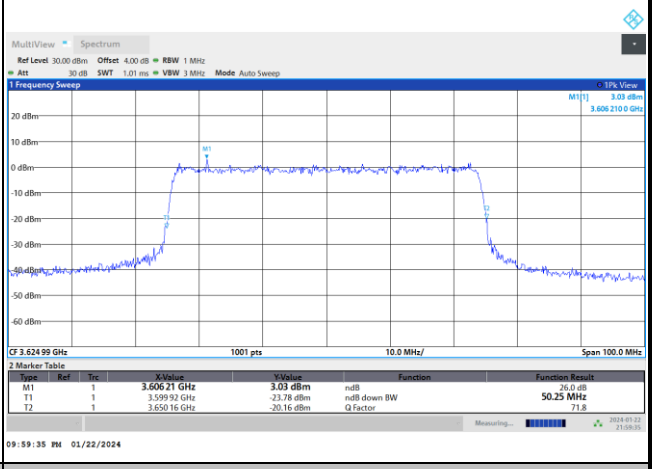
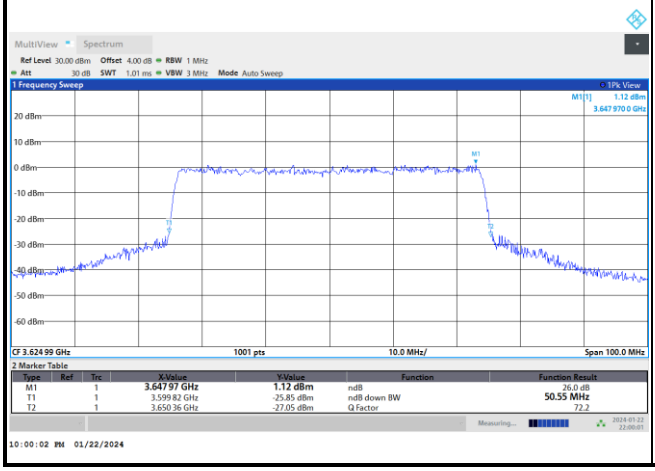
FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

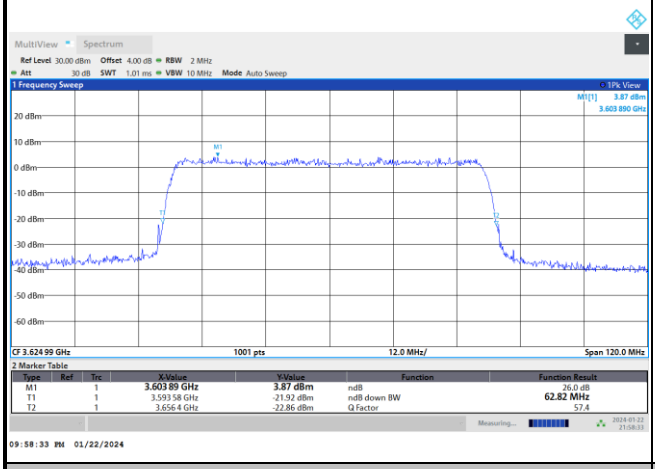
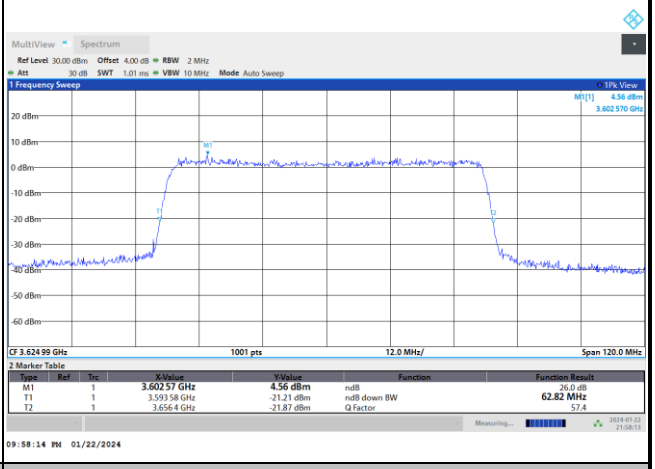
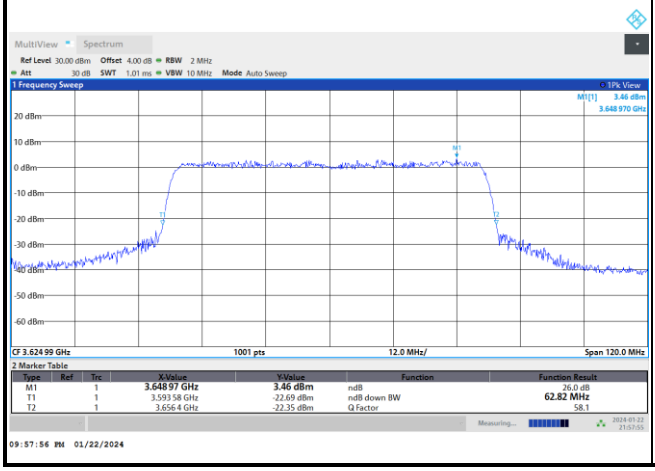
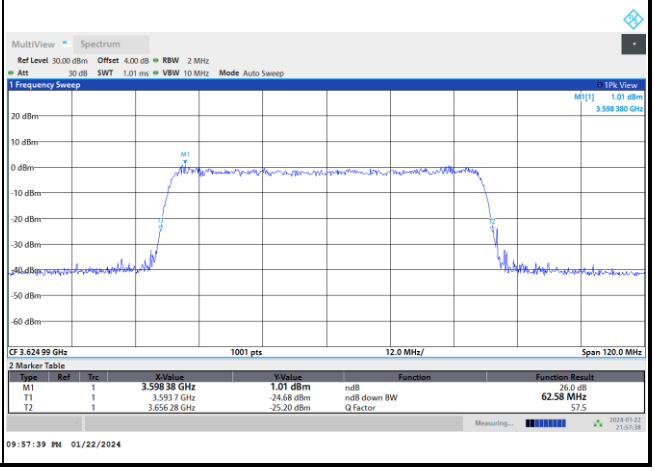
FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

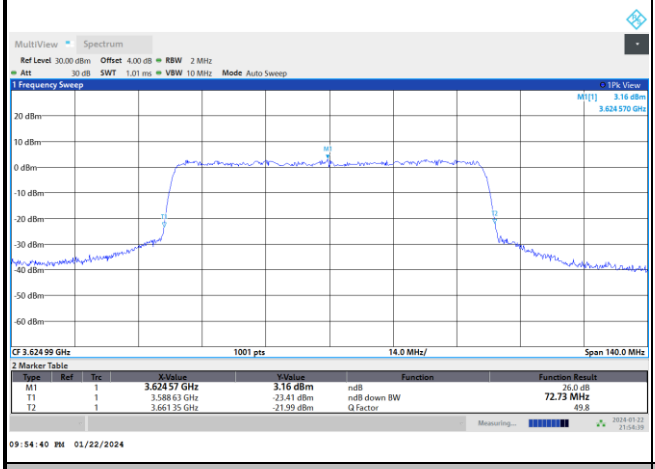
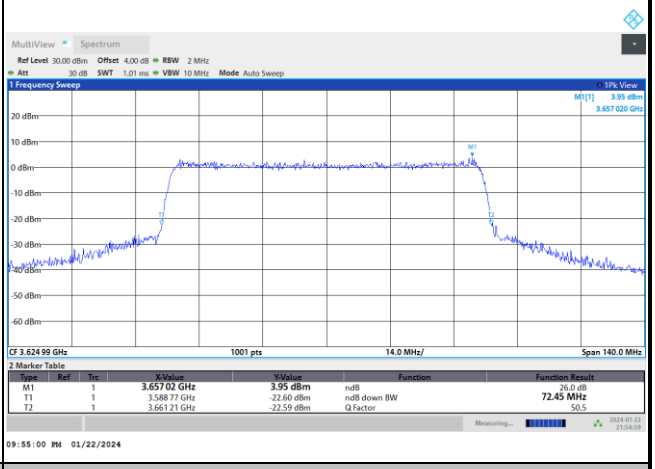
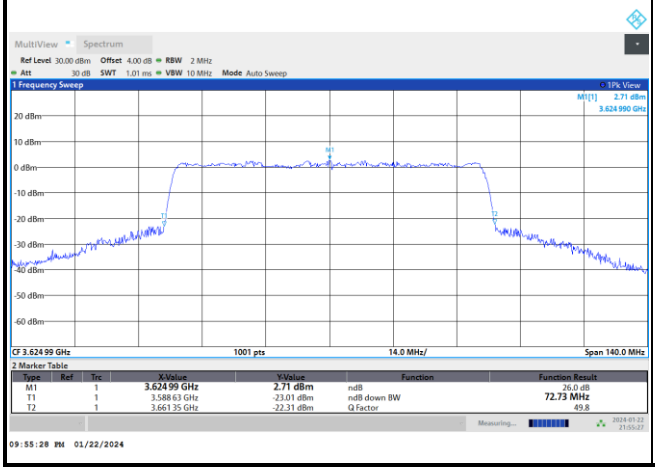
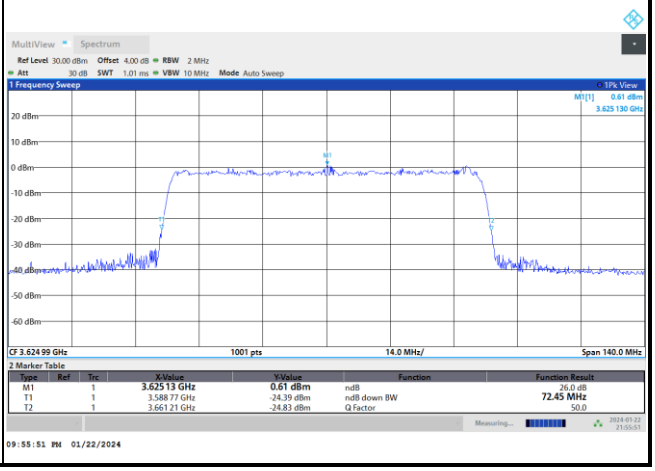
FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

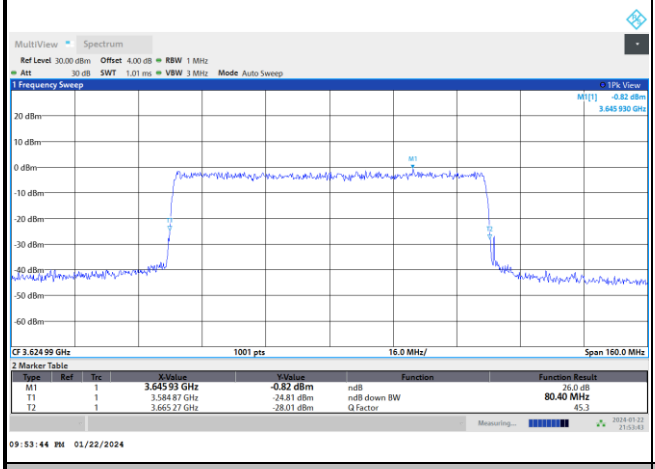
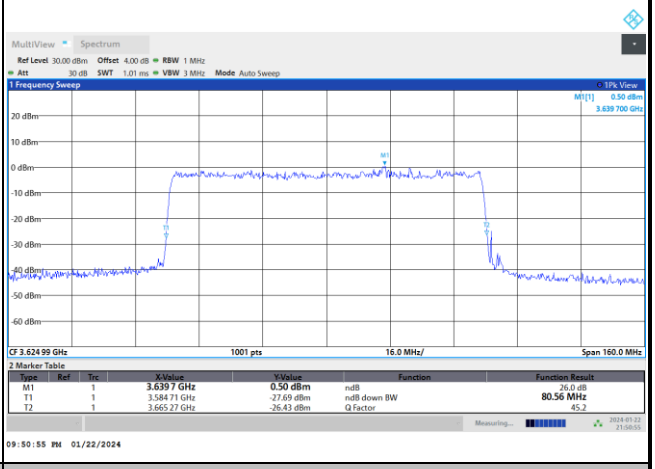
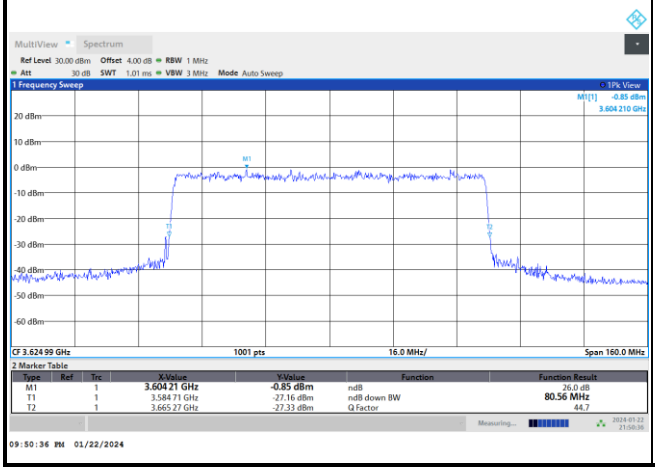
FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

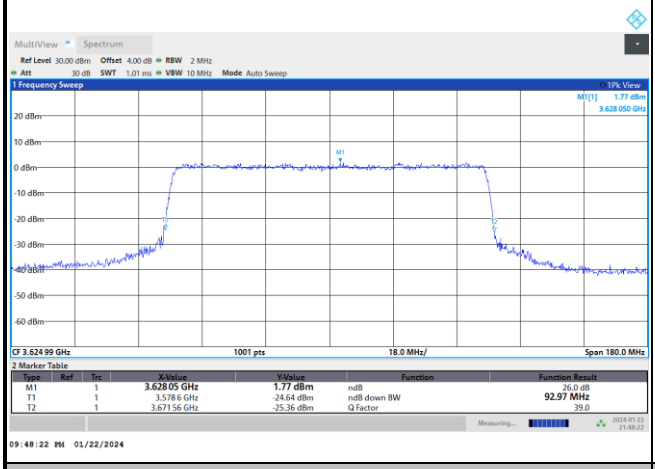
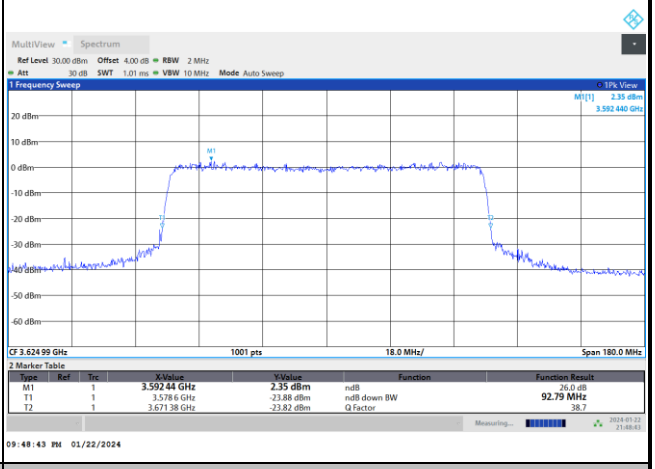
FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

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
	

FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM