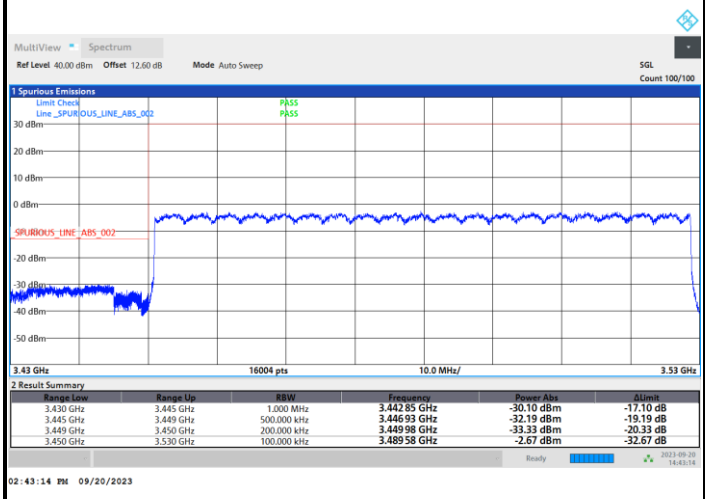
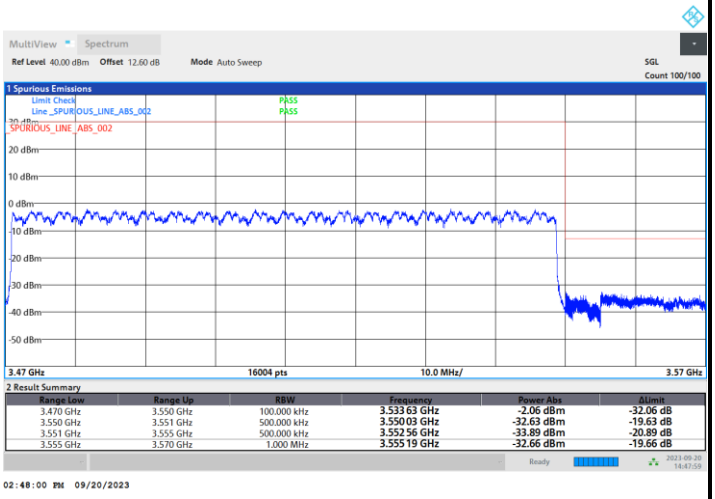
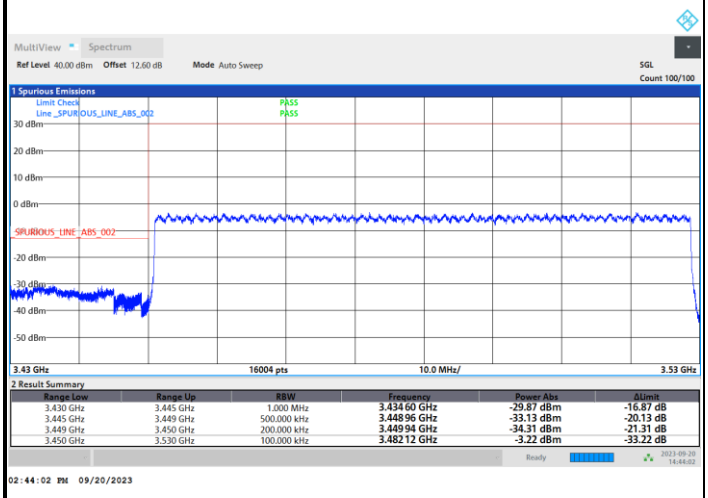
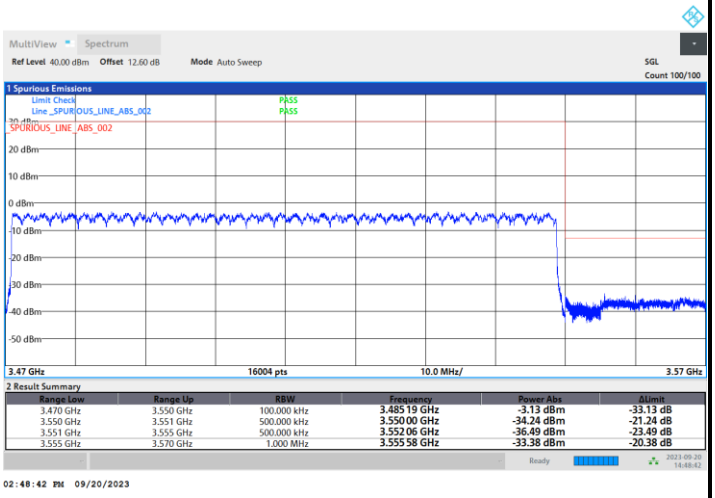
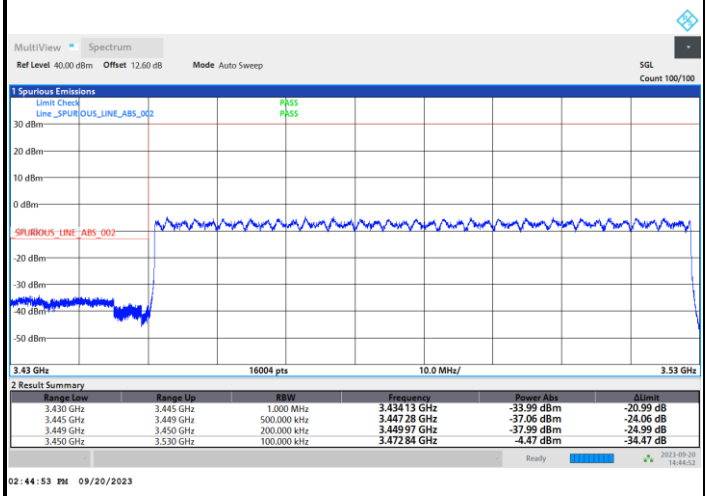
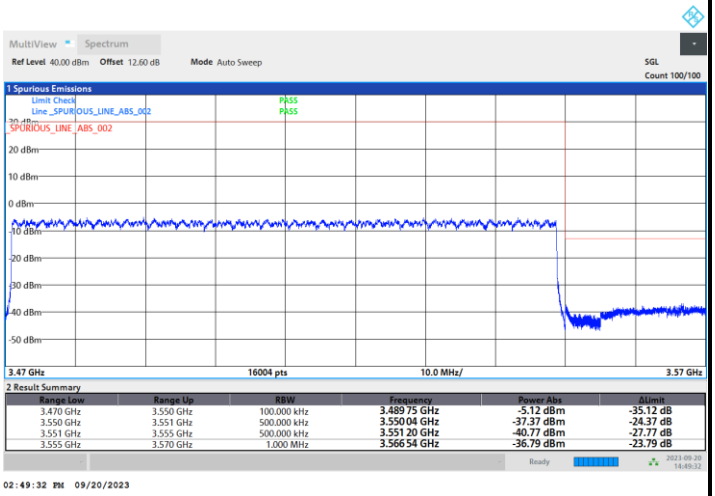
5G-FR1 SA n77 (PC2) / 80MHz / DFT-S OFDM / 16QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

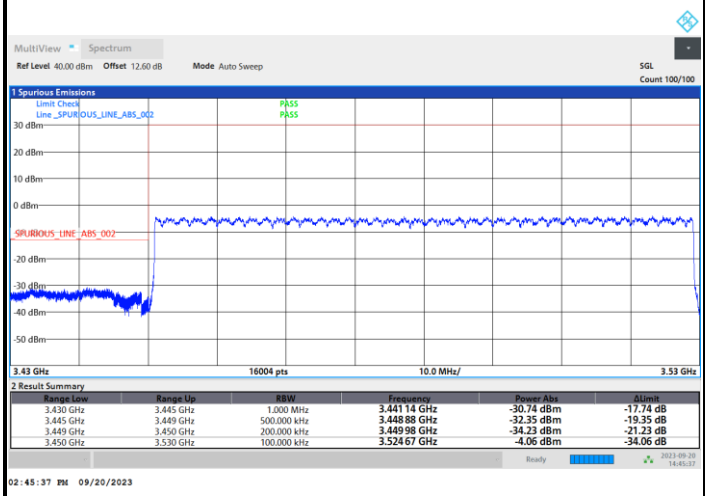
5G-FR1 SA n77 (PC2) / 80MHz / DFT-S OFDM / 64QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

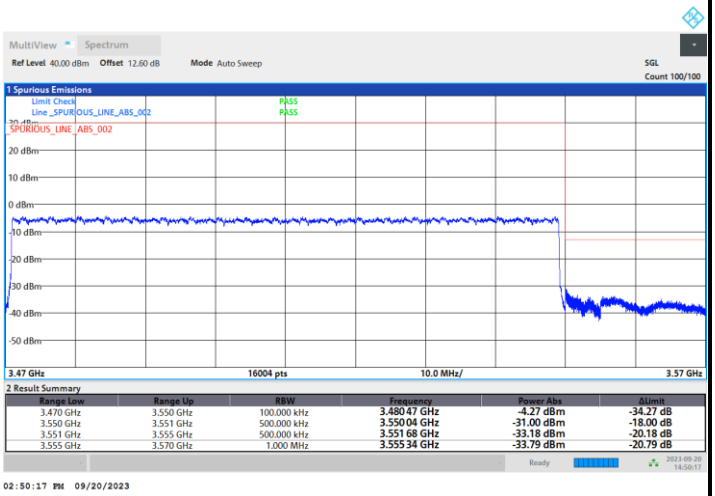
5G-FR1 SA n77 (PC2) / 80MHz / DFT-S OFDM / 256QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB

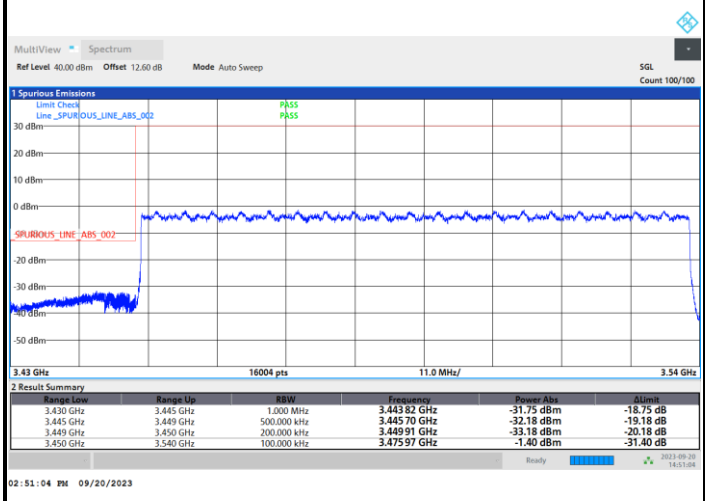
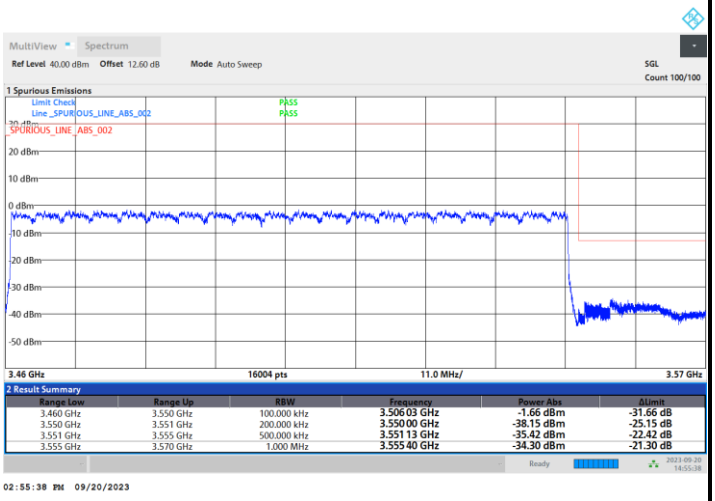


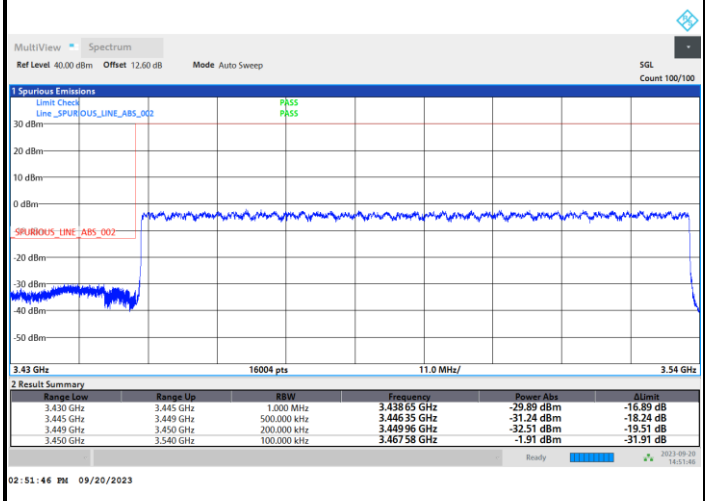
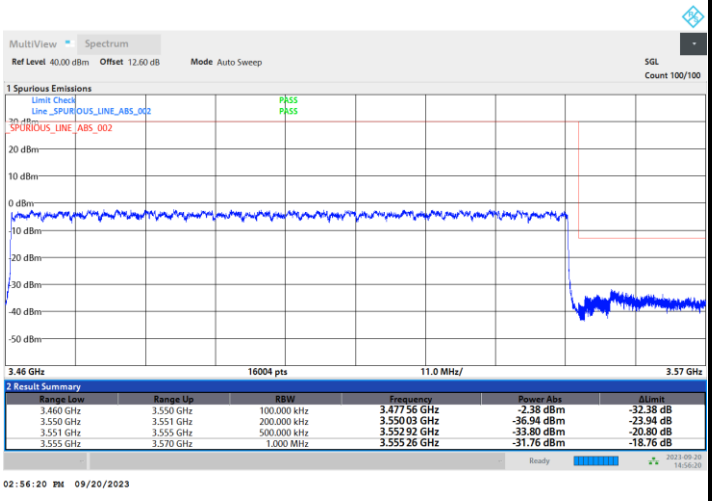


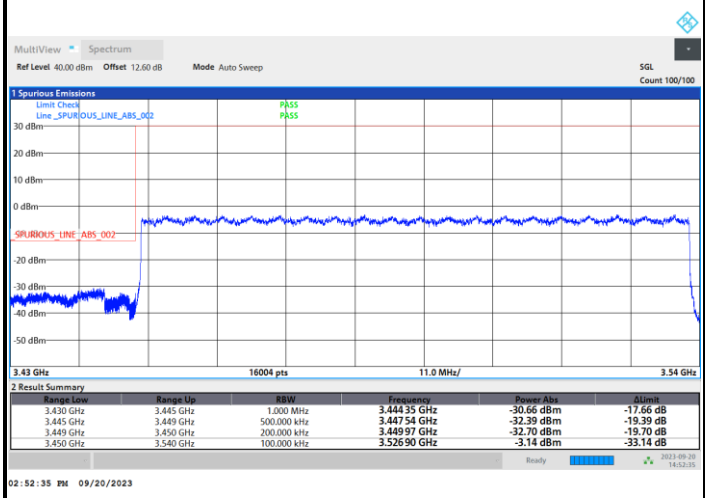
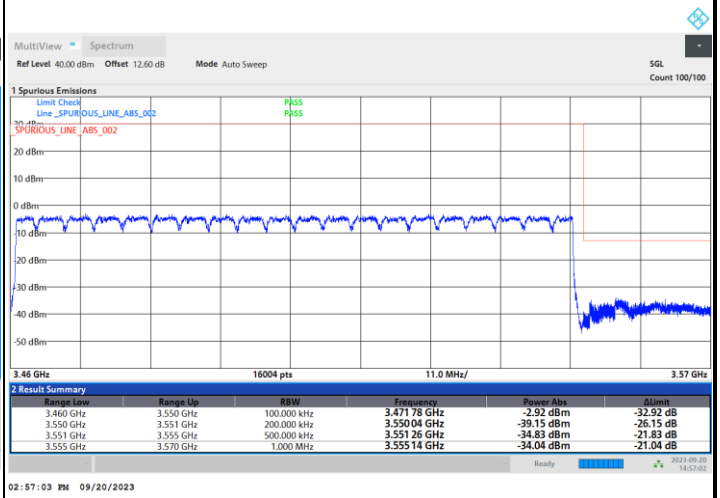
5G-FR1 SA n77 (PC2) / 80MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	Highest Band Edge

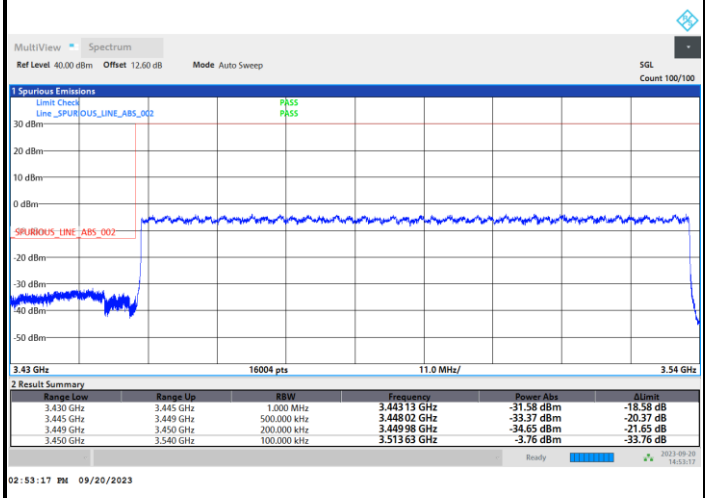
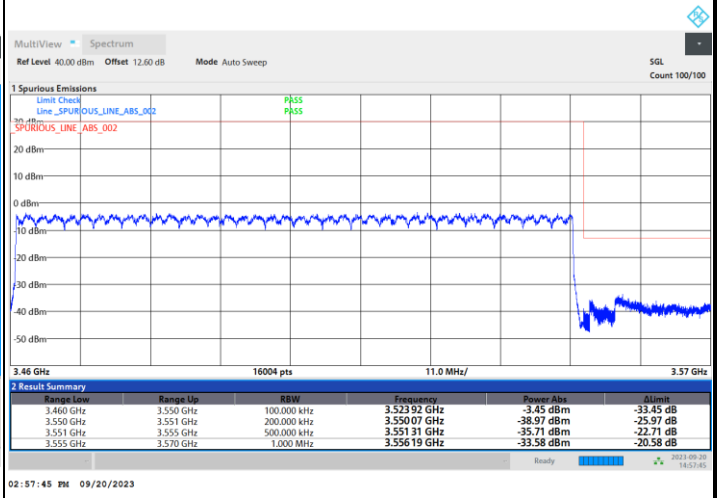


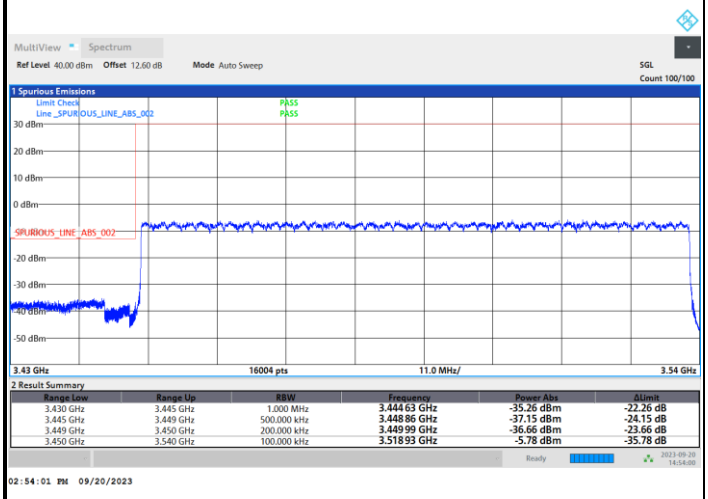
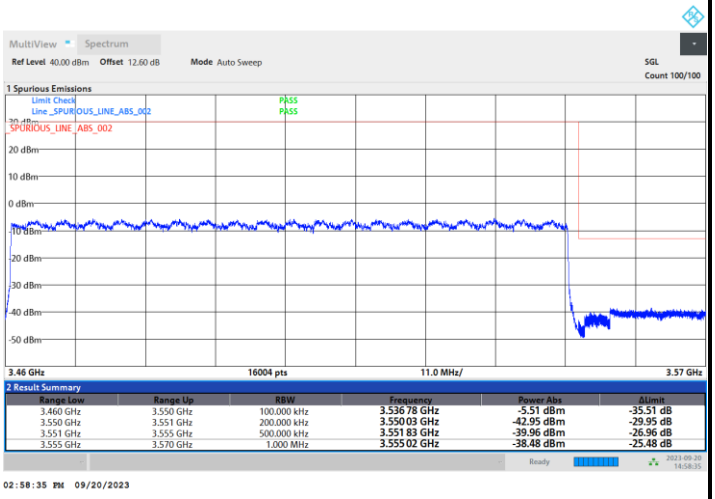


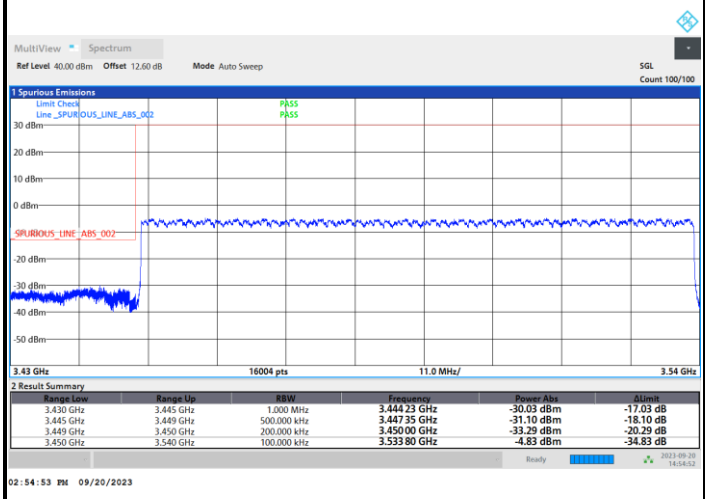
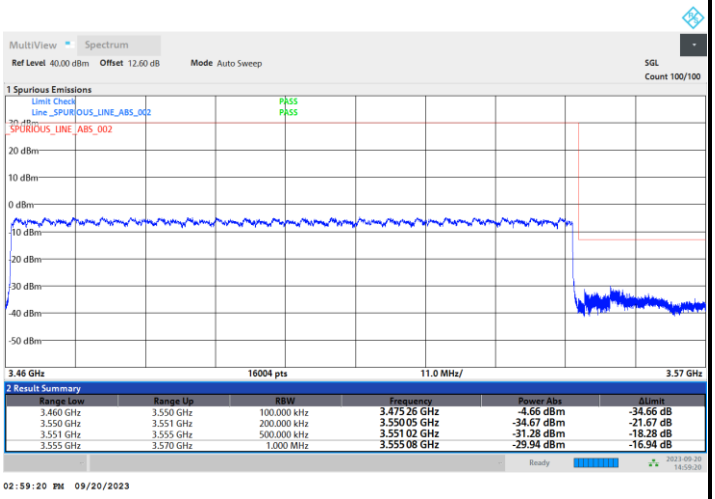
5G-FR1 SA n77 (PC2) / 90MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

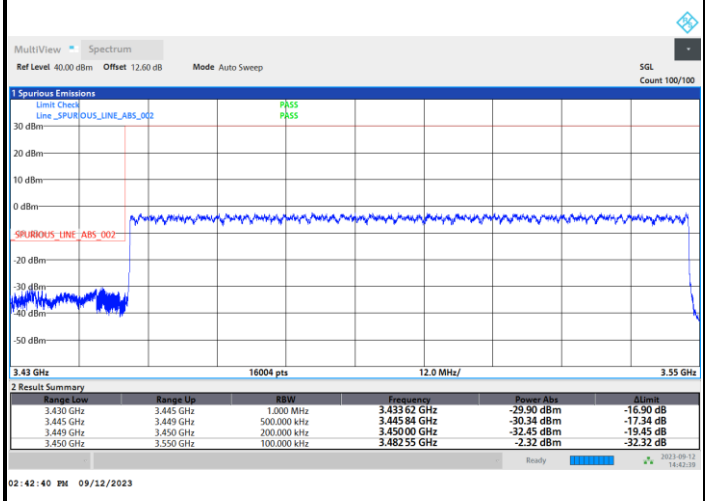
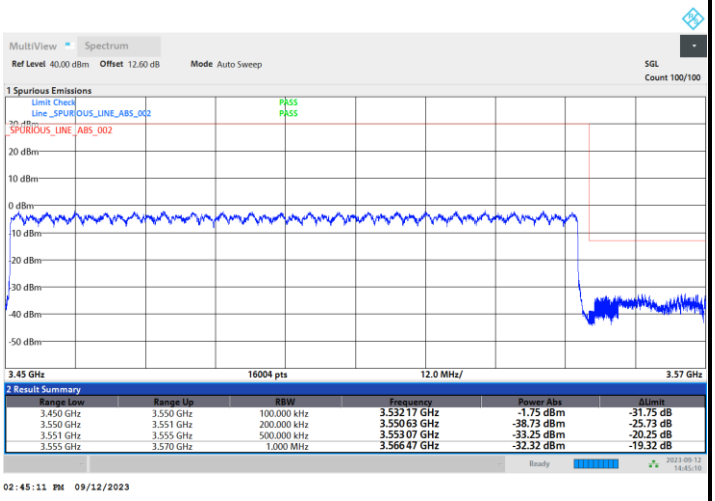
5G-FR1 SA n77 (PC2) / 90MHz / DFT-S OFDM / QPSK	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

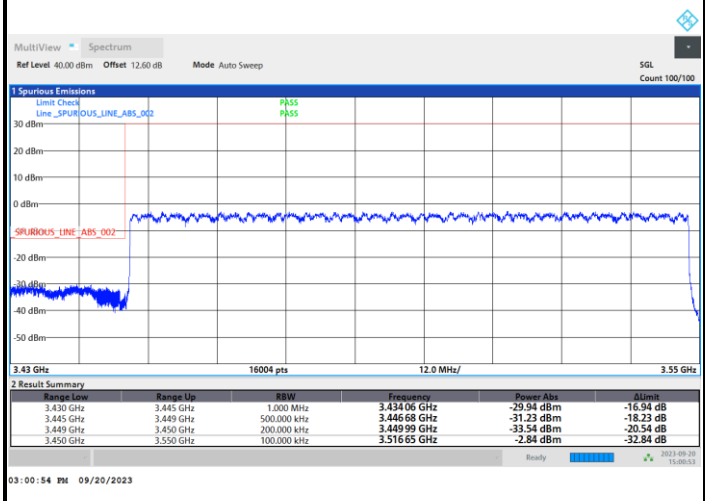
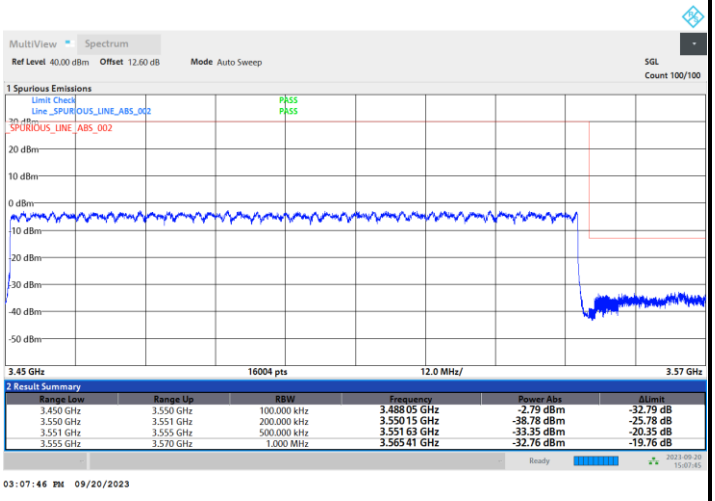
5G-FR1 SA n77 (PC2) / 90MHz / DFT-S OFDM / 16QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

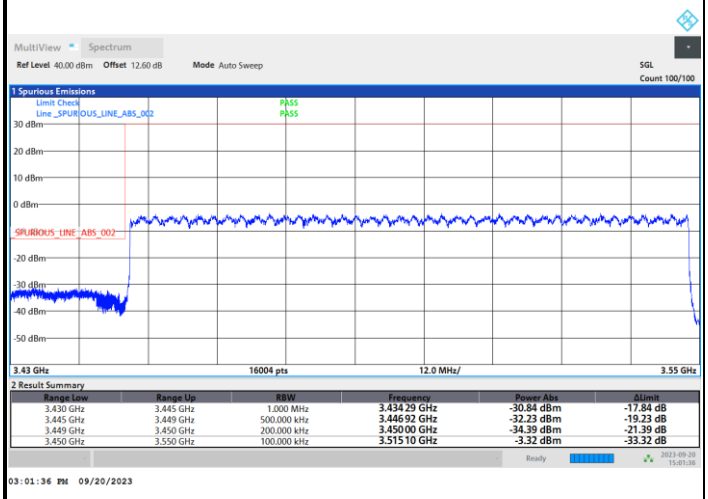
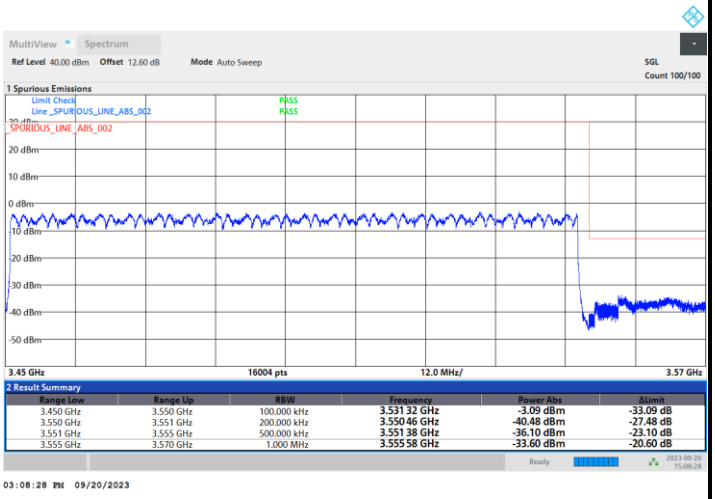
5G-FR1 SA n77 (PC2) / 90MHz / DFT-S OFDM / 64QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

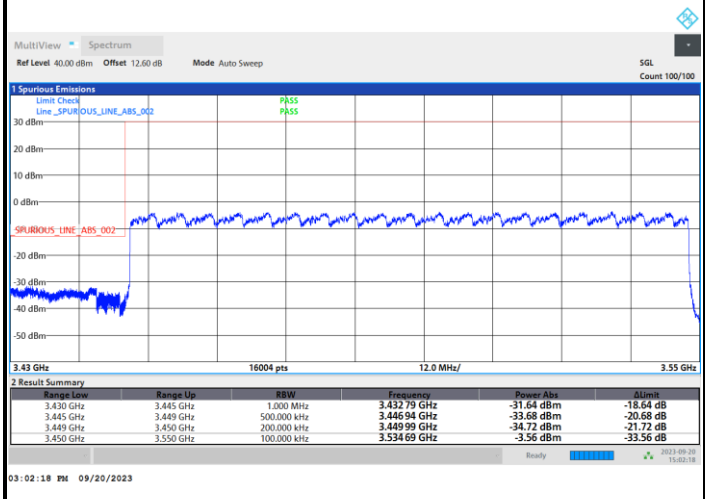
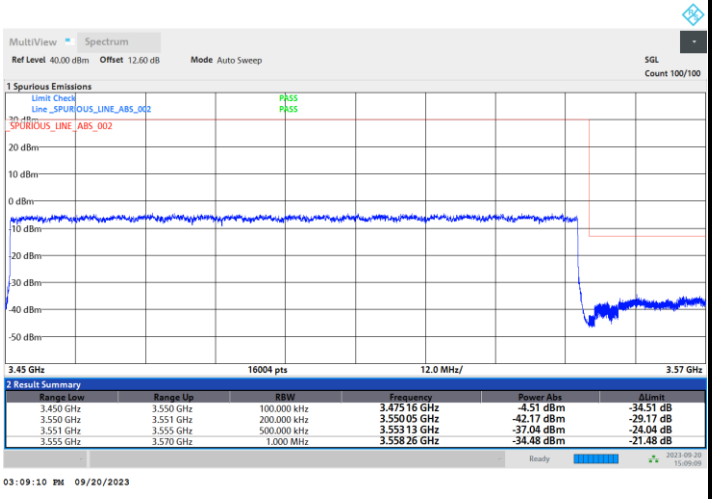
5G-FR1 SA n77 (PC2) / 90MHz / DFT-S OFDM / 256QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

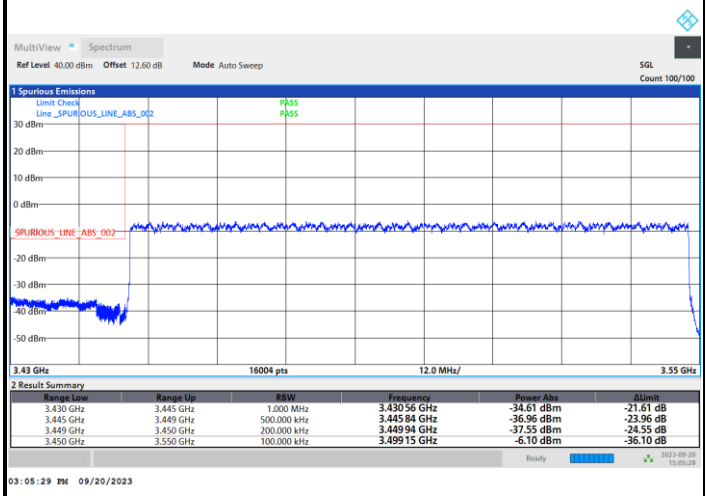
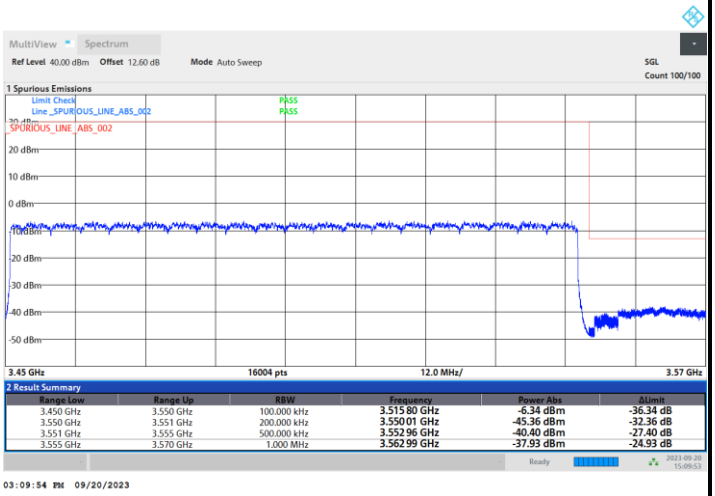
5G-FR1 SA n77 (PC2) / 90MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	Highest Band Edge
	

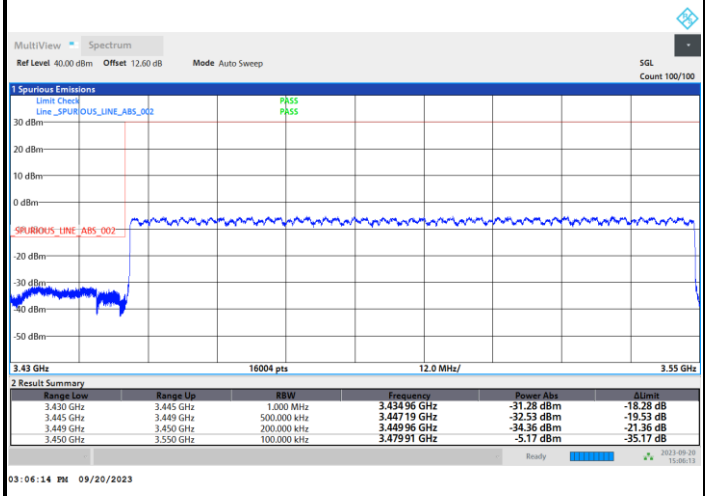
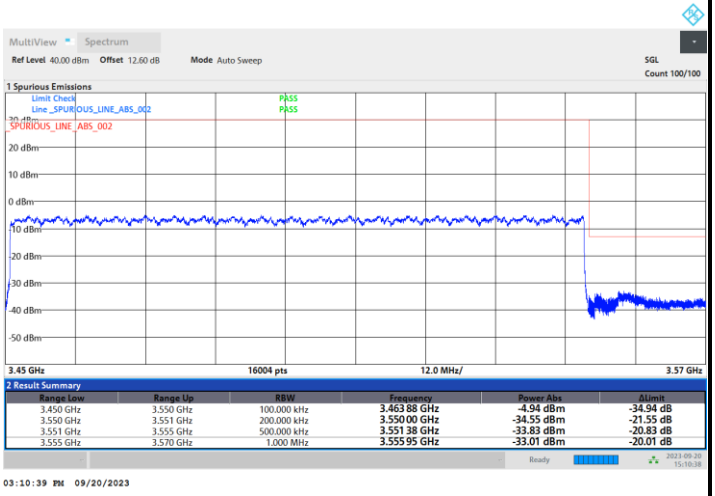
5G-FR1 SA n77 (PC2) / 100MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

5G-FR1 SA n77 (PC2) / 100MHz / DFT-S OFDM / QPSK	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

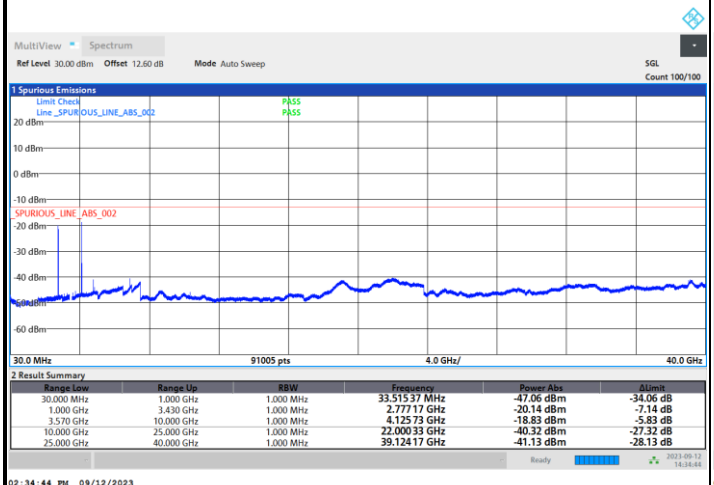
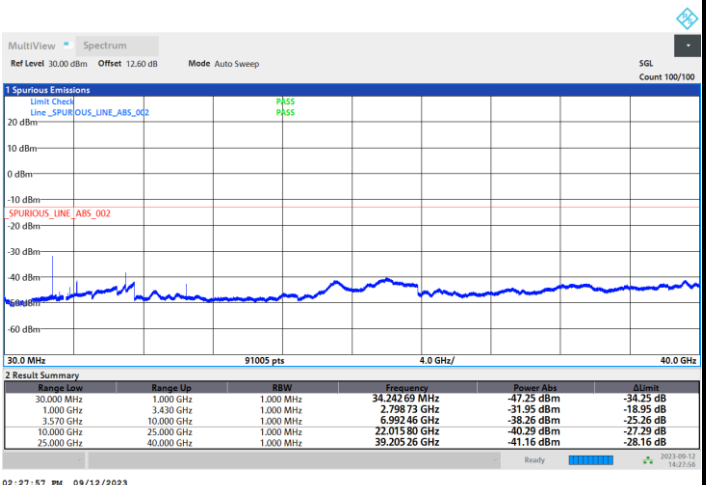
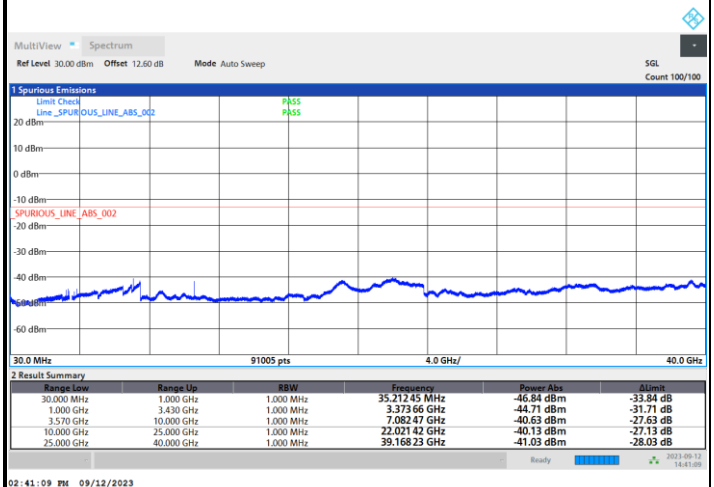
5G-FR1 SA n77 (PC2) / 100MHz / DFT-S OFDM / 16QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

5G-FR1 SA n77 (PC2) / 100MHz / DFT-S OFDM / 64QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

5G-FR1 SA n77 (PC2) / 100MHz / DFT-S OFDM / 256QAM	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

5G-FR1 SA n77 (PC2) / 100MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	Highest Band Edge
	

Conducted Spurious Emission

5G-FR1 SA n77 (PC2) / 10MHz / DFT-S OFDM / QPSK / 1RB1	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

Frequency Stability

Test Conditions		5G-FR1 SA n77 (PC2) (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 48 V.；Minimum Voltage = 42.5 V.；Maximum Voltage = 57 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

<MIMO Mode>

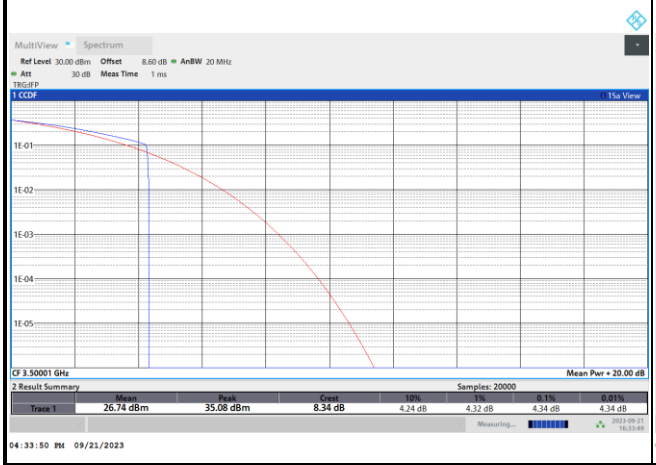
MIMO <Ant. 4>

Peak-to-Average Ratio

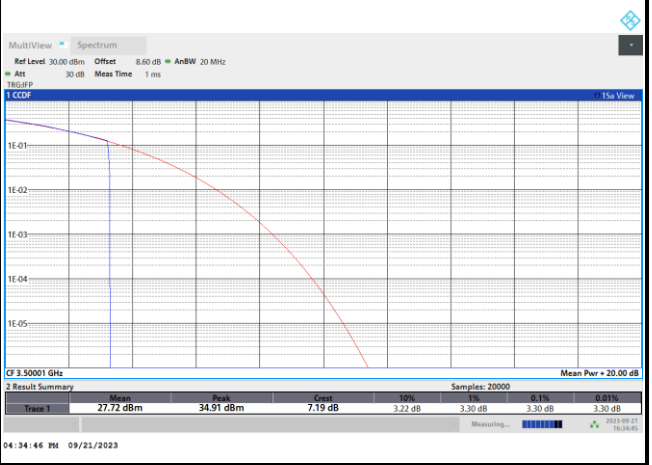
Mode	5G-FR1 SA UL MIMO n77 (PC1.5) / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.34	3.30	3.78	6.78	PASS

5G-FR1 SA UL MIMO n77 (PC1.5) / 20MHz /CP OFDM / Middle Channel / Full RB

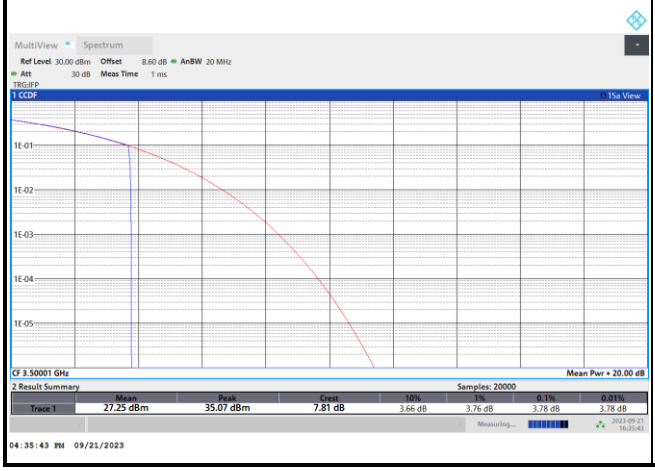
QPSK



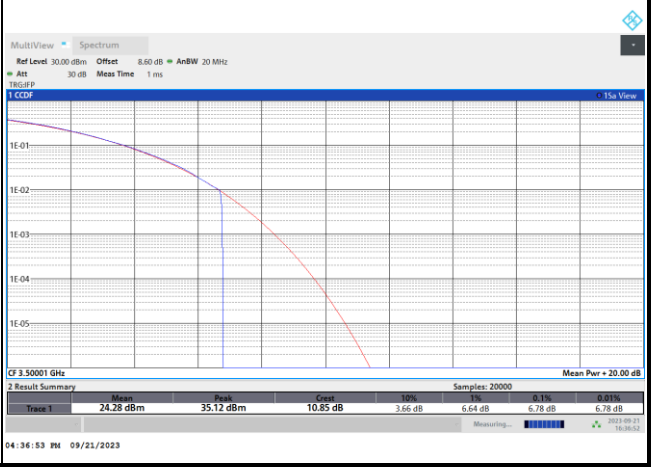
16QAM



64QAM

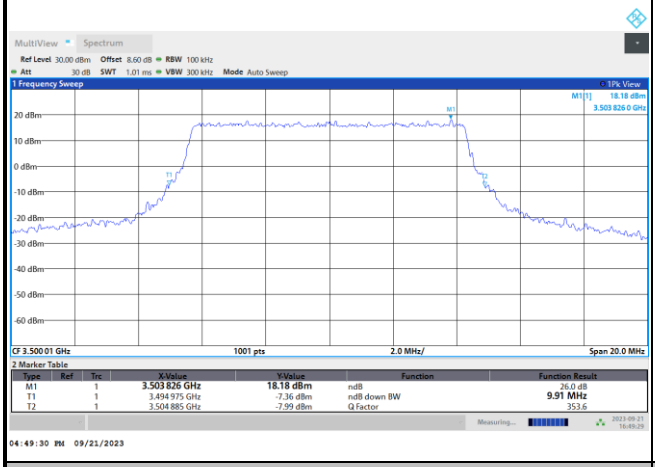
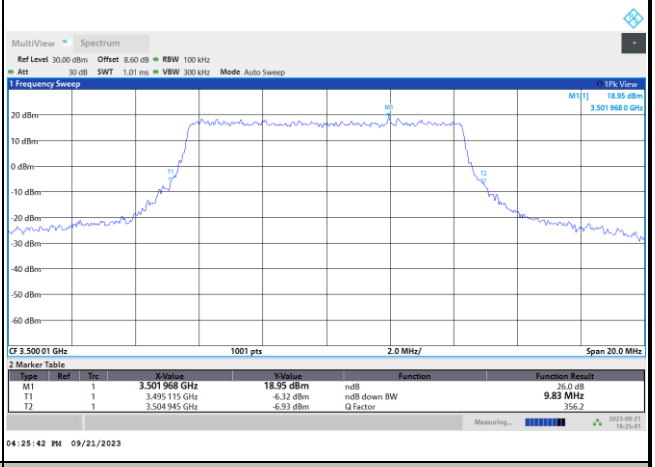
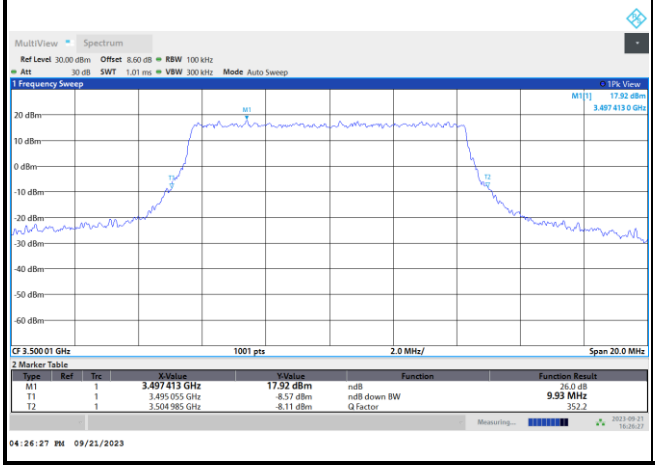
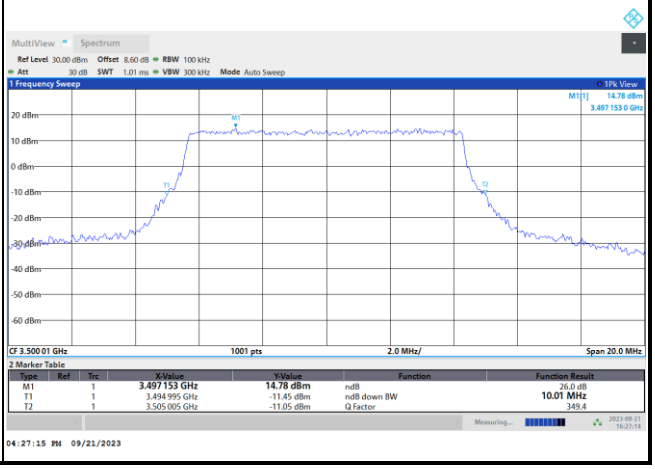


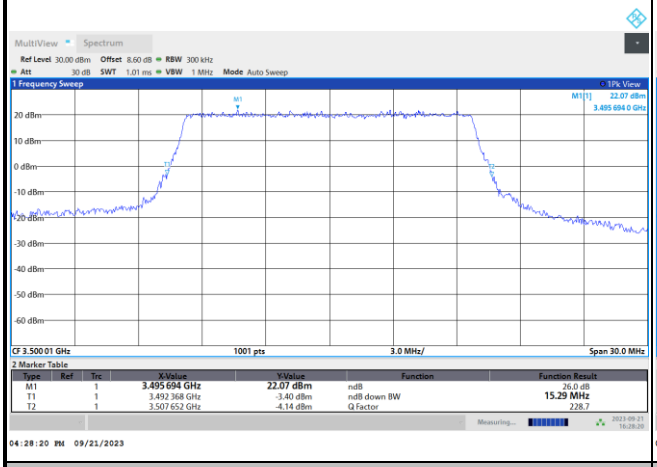
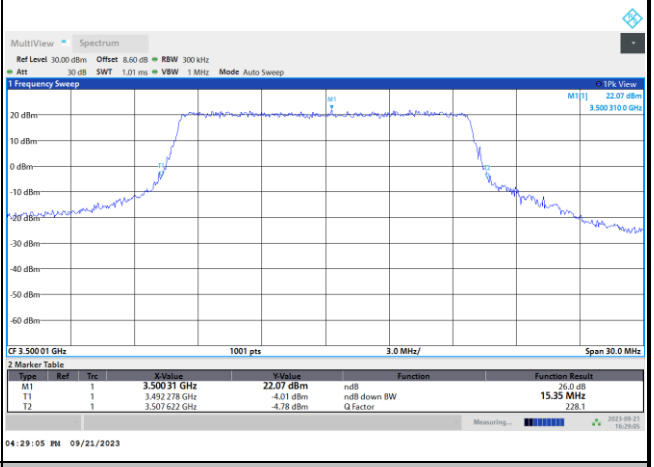
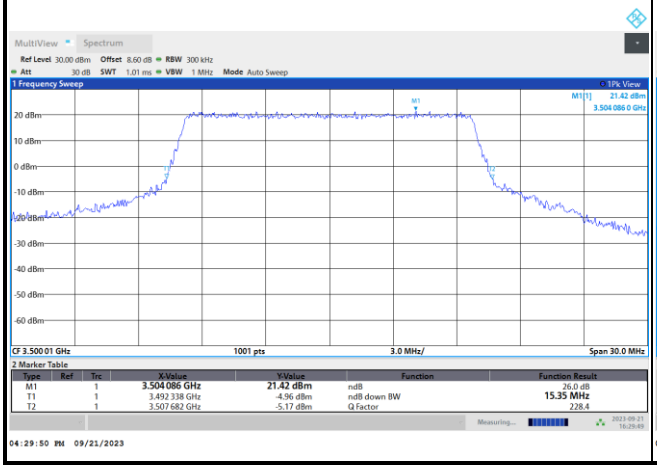
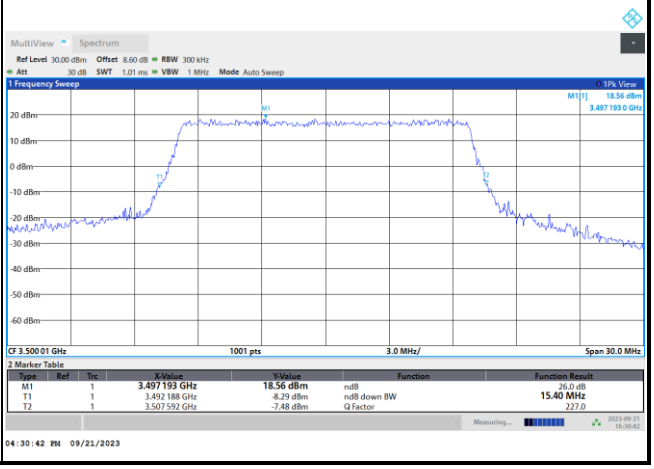
256QAM

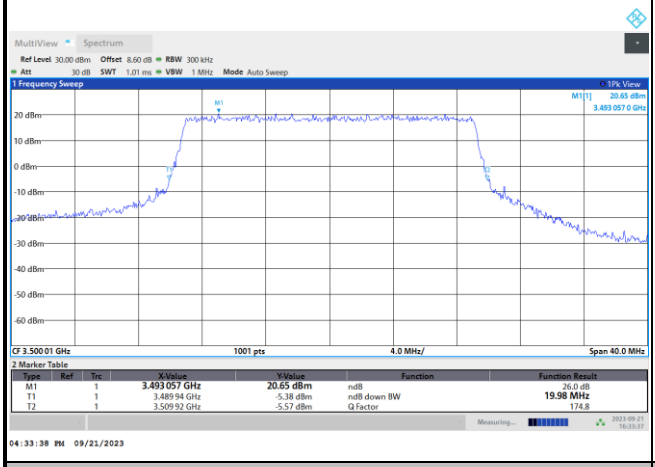
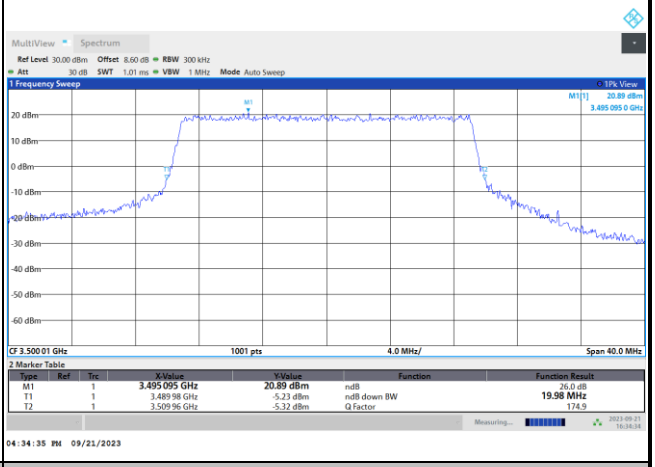
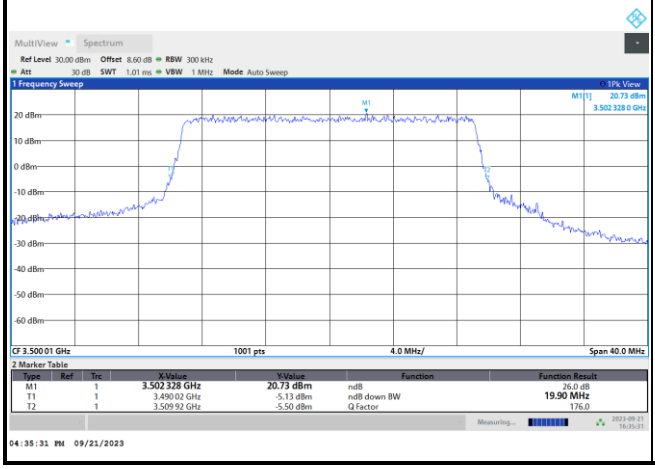
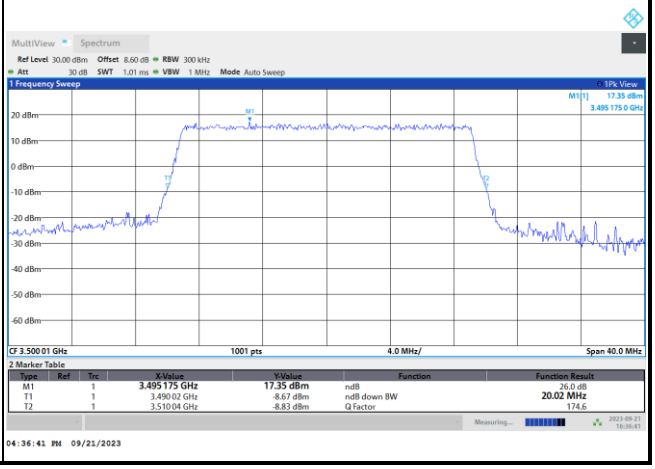


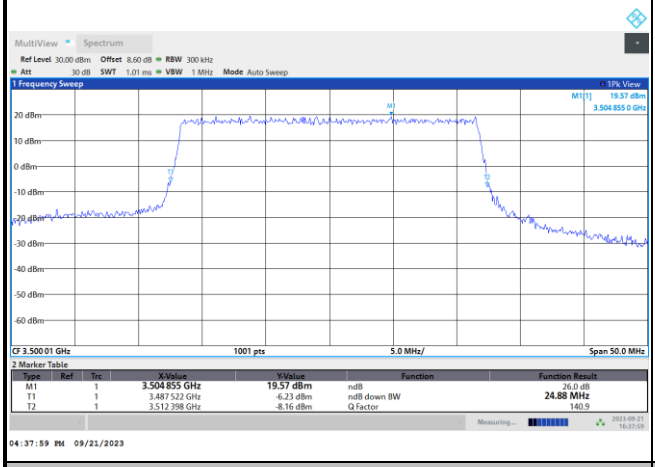
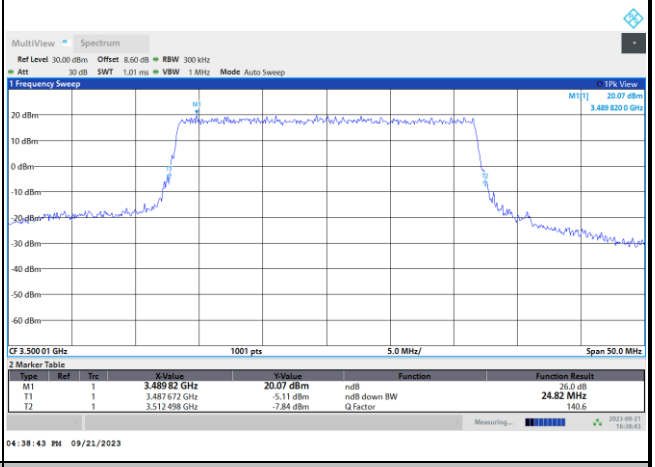
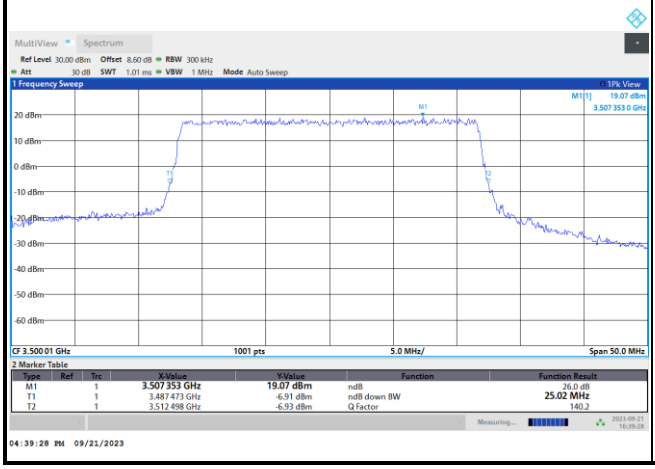
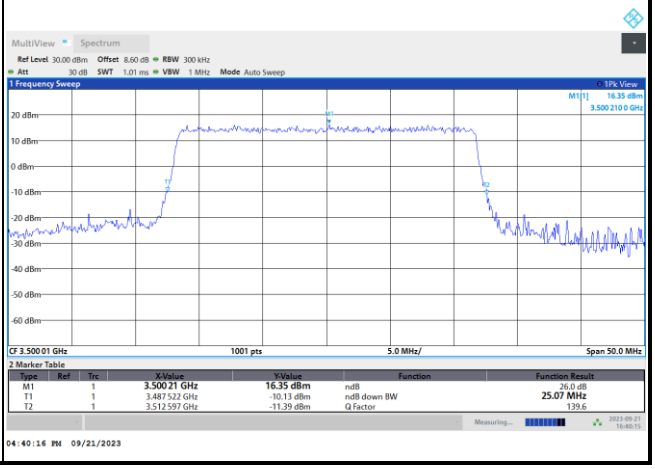
26dB Bandwidth

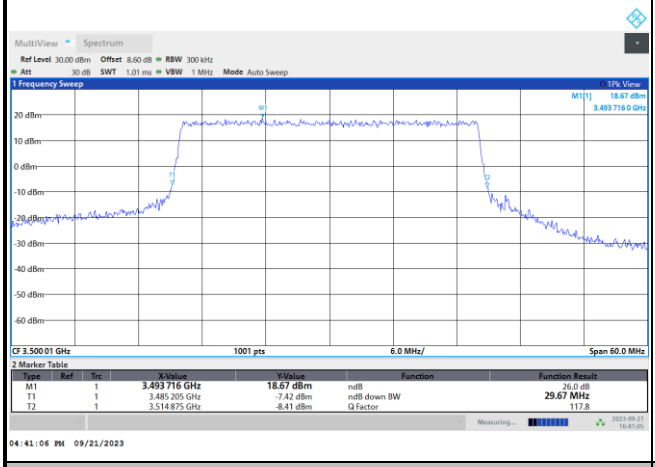
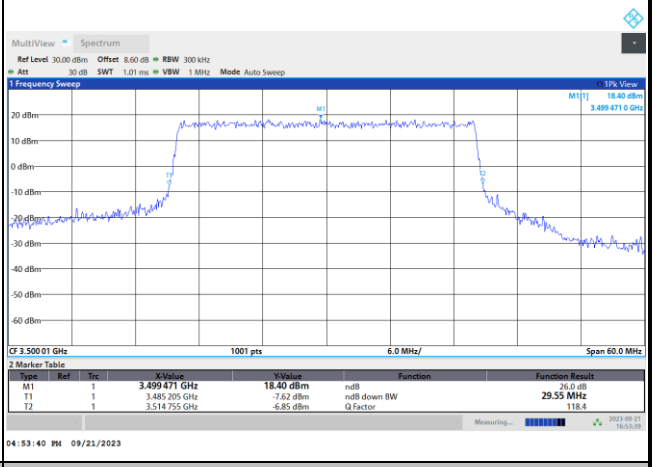
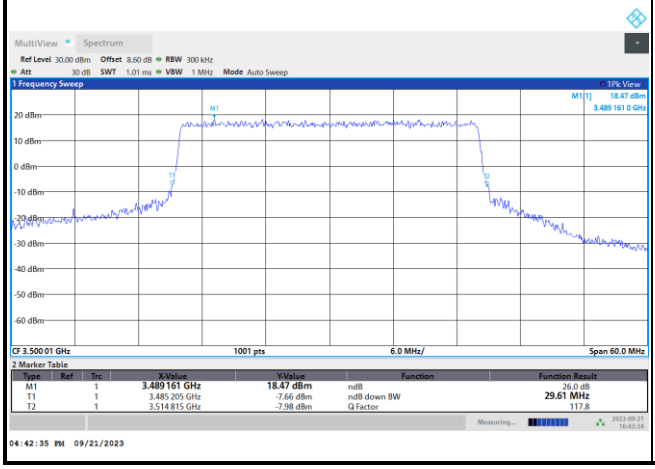
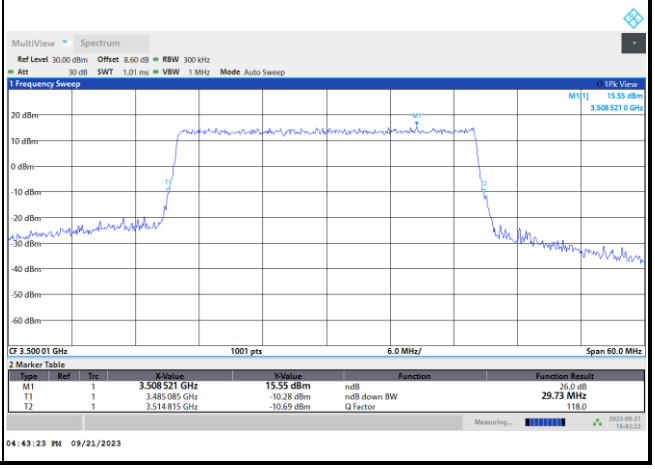
Mode	5G-FR1 SA UL MIMO n77 (PC1.5) : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.91	9.83	15.29	15.35	19.98	19.98	24.88	24.83
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.93	10.01	15.35	15.41	19.90	20.02	25.03	25.08
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	29.67	29.55	41.00	40.68	50.45	50.55	60.78	61.02
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	29.61	29.73	40.92	40.52	50.45	50.45	60.90	60.54
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.77	70.63	81.04	80.88	90.81	90.81	101.10	101.10
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.77	70.77	80.88	80.72	90.99	90.99	100.70	101.10

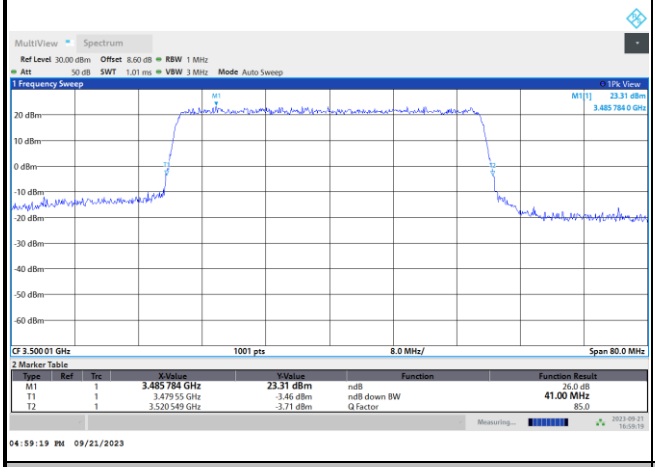
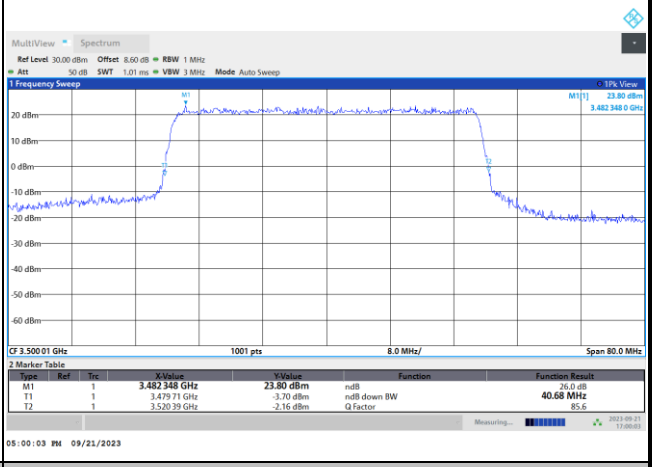
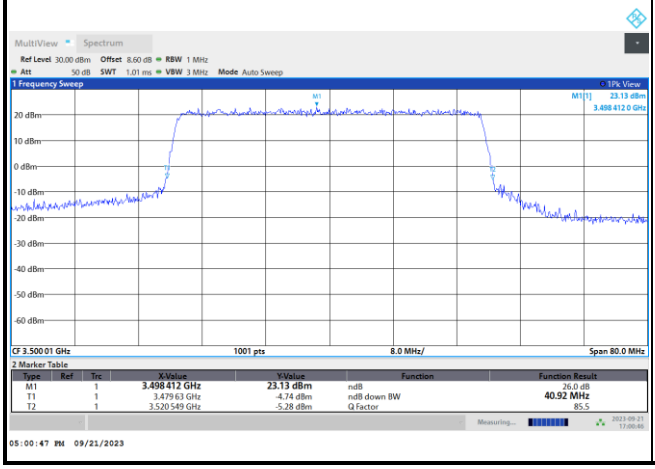
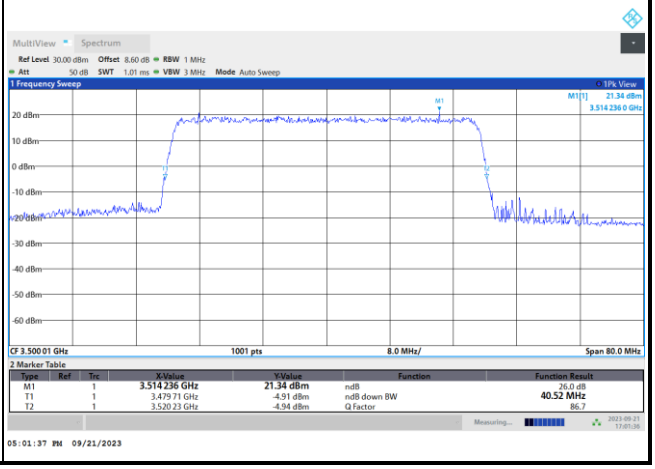
5G-FR1 SA UL MIMO n77 (PC1.5) / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

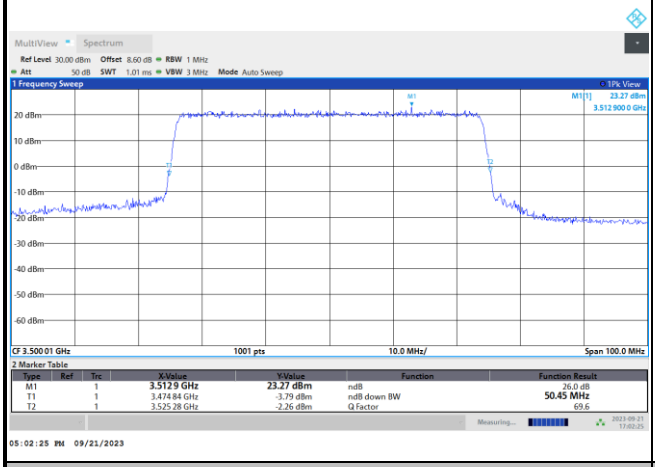
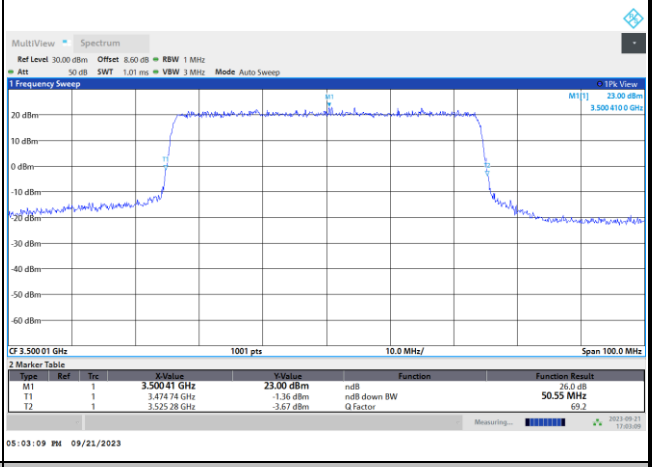
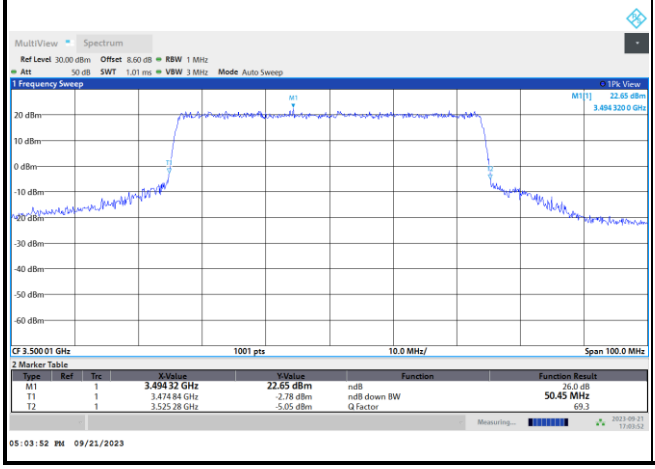
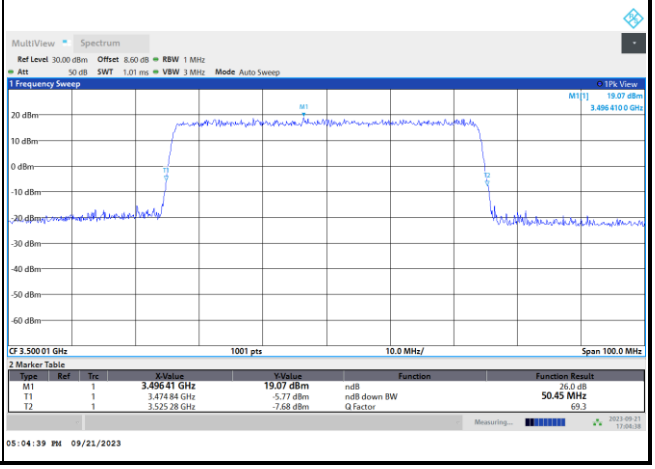
5G-FR1 SA UL MIMO n77 (PC1.5) / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

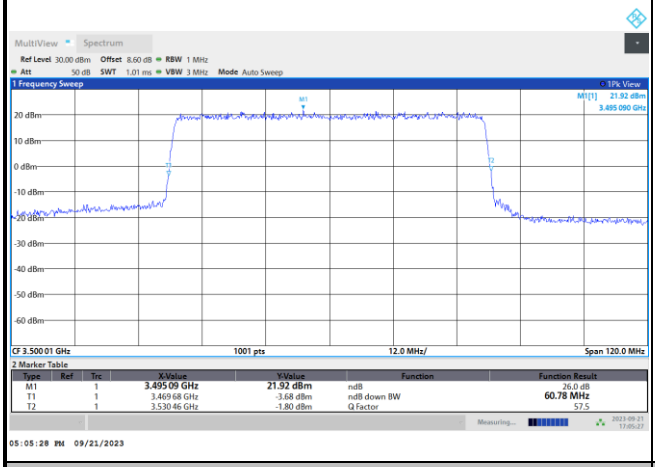
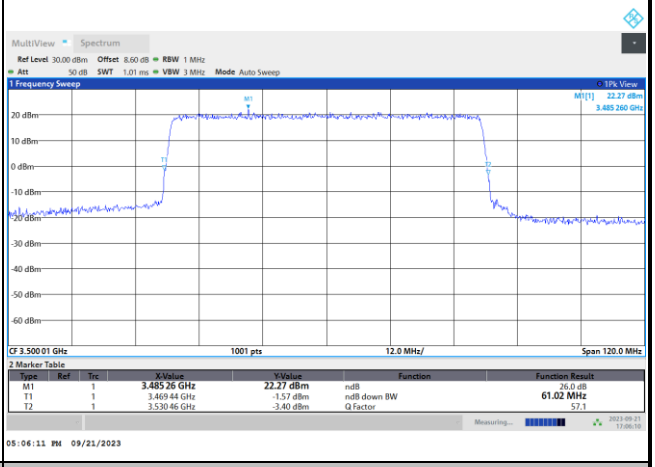
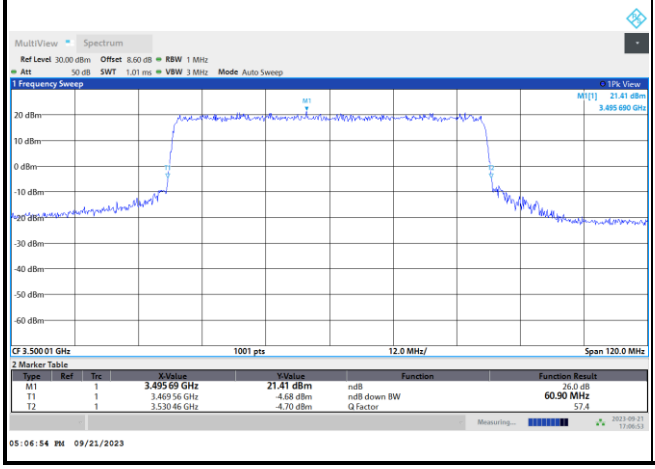
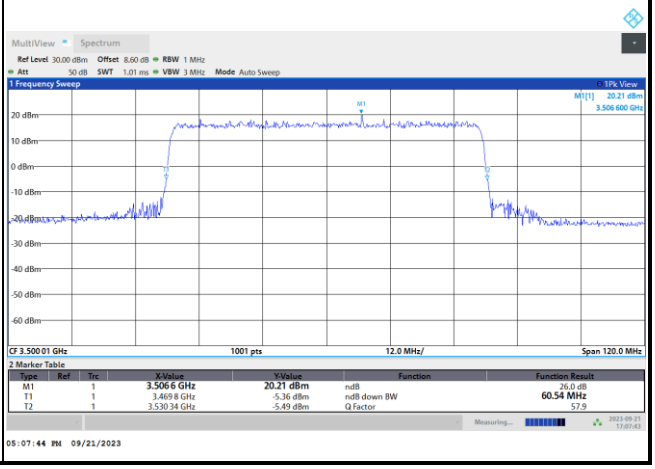
5G-FR1 SA UL MIMO n77 (PC1.5) / 20MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

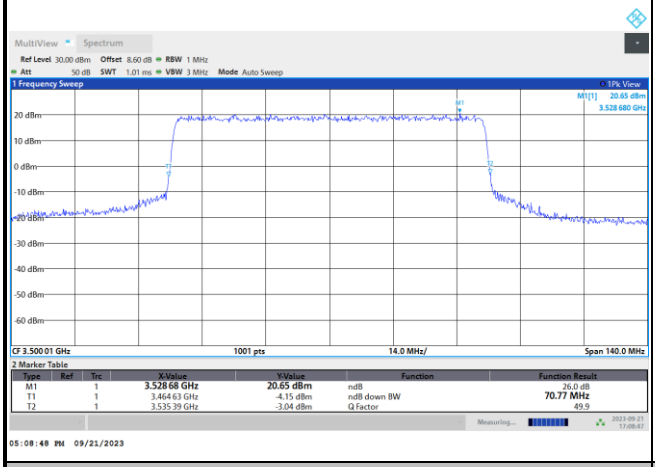
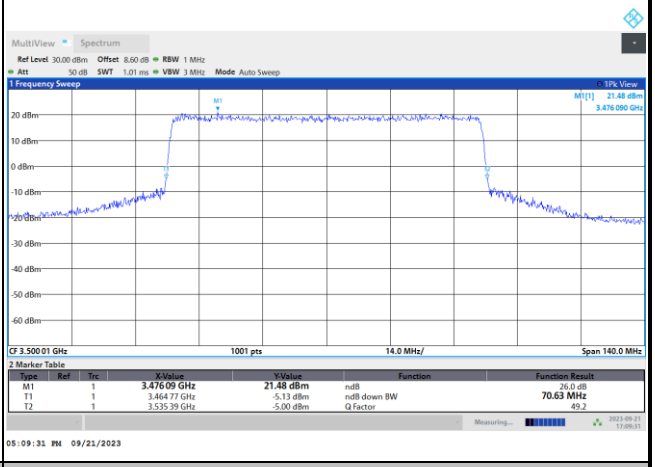
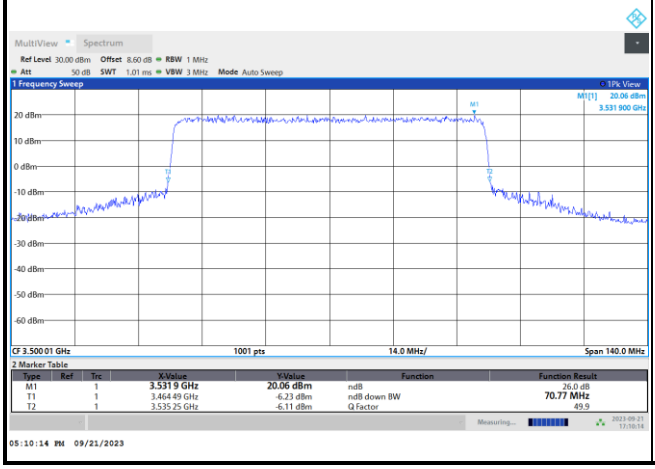
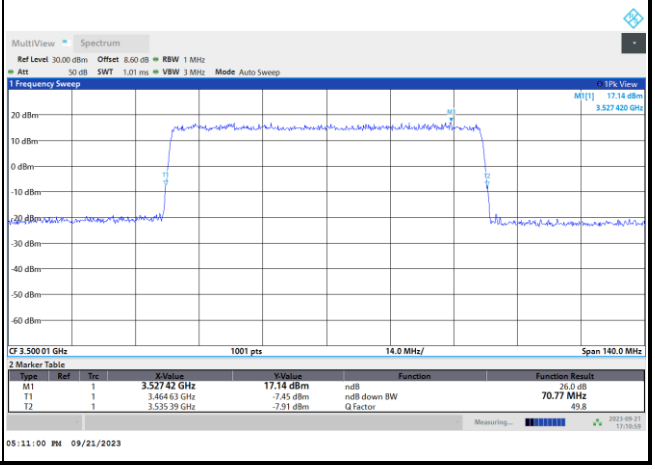
5G-FR1 SA UL MIMO n77 (PC1.5) / 25MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

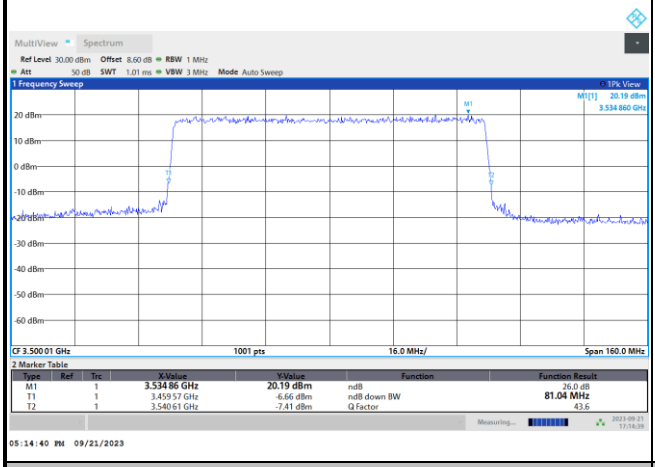
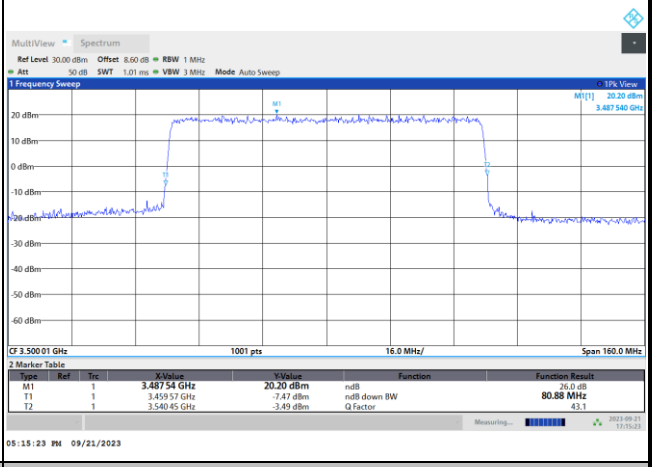
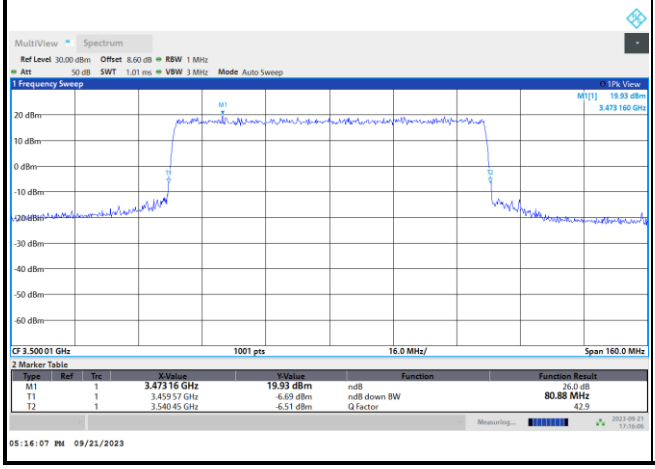
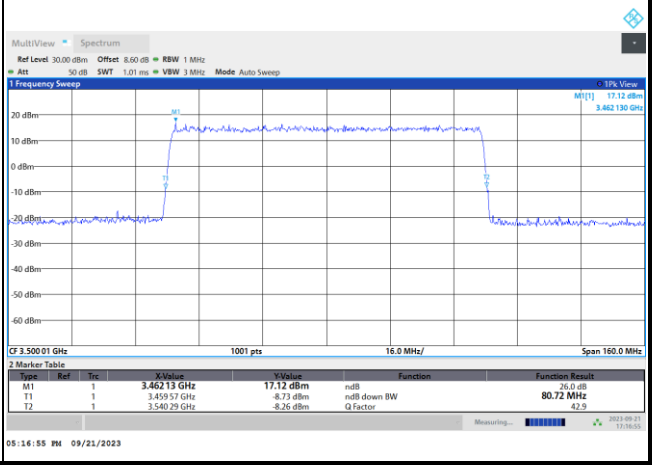
5G-FR1 SA UL MIMO n77 (PC1.5) / 30MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

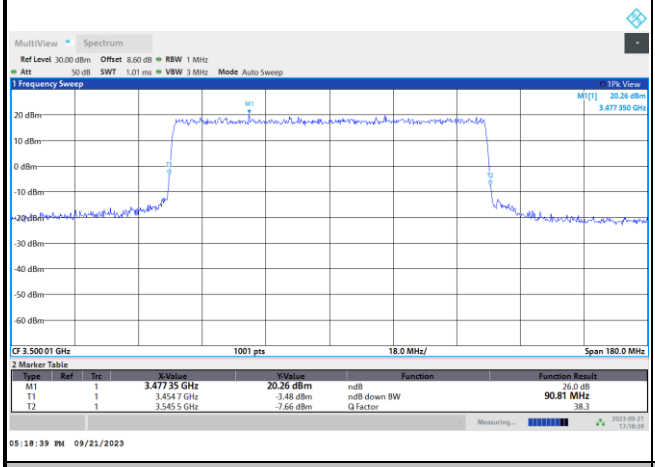
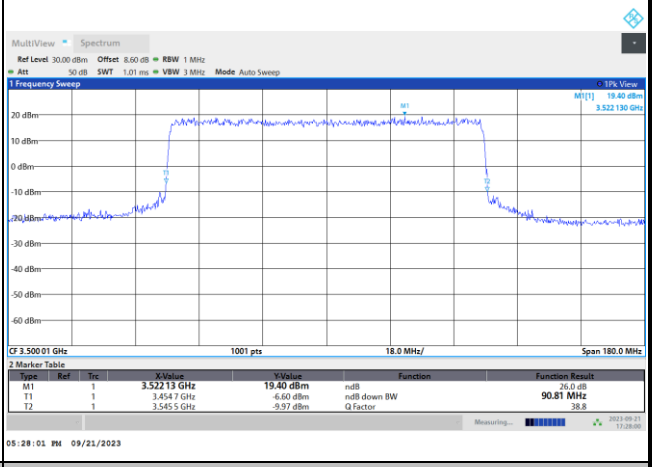
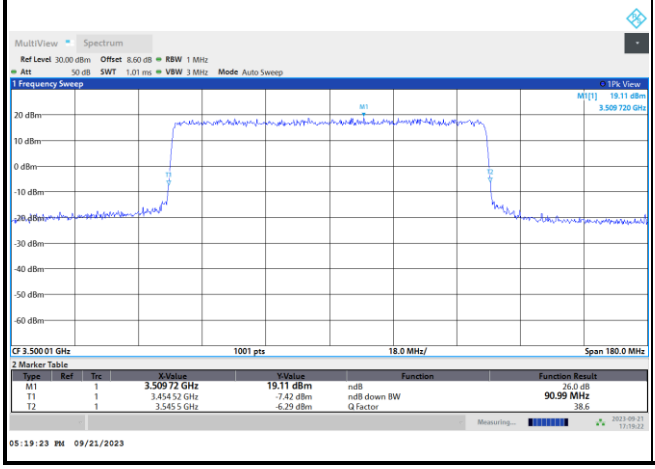
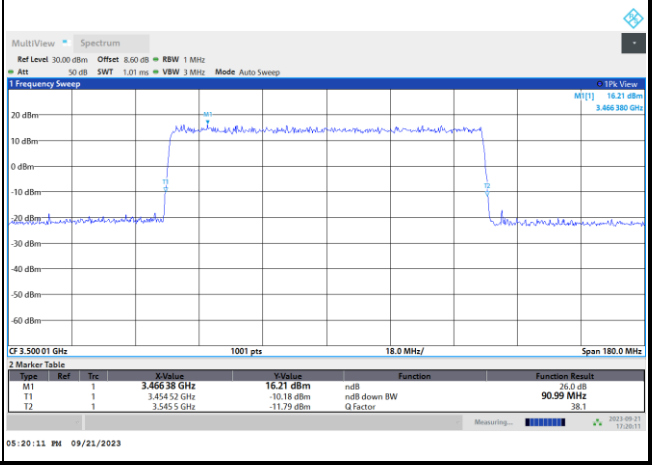
5G-FR1 SA UL MIMO n77 (PC1.5) / 40MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

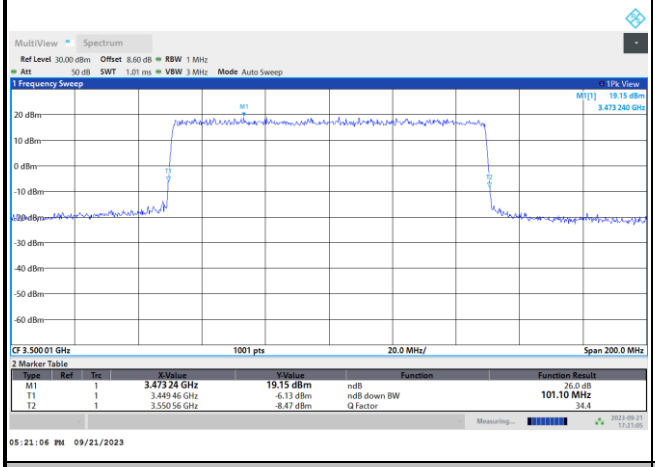
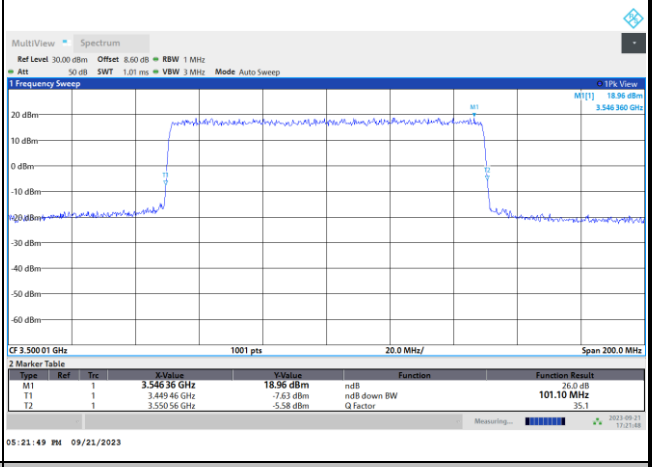
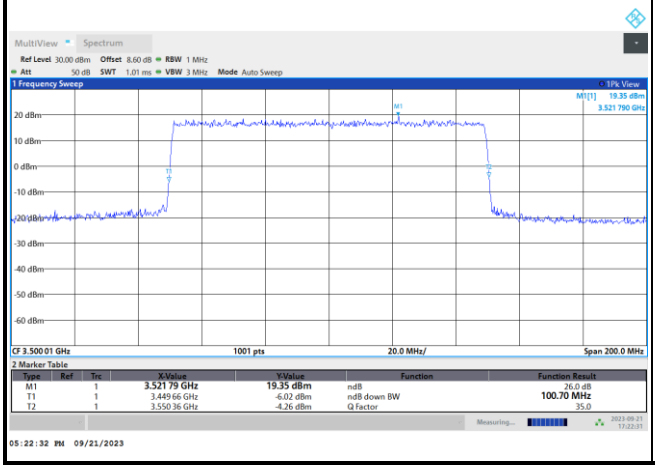
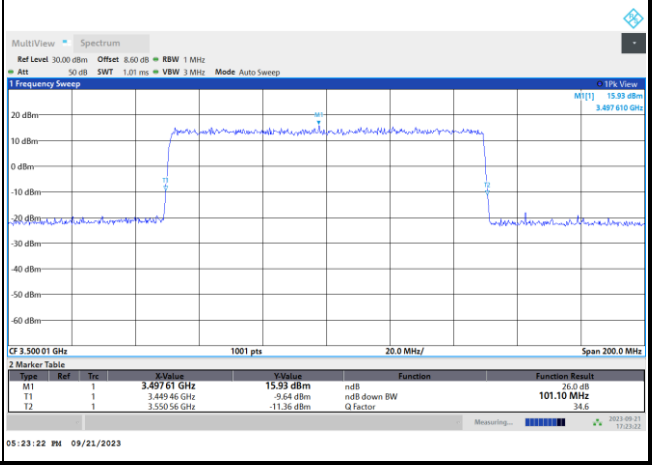
5G-FR1 SA UL MIMO n77 (PC1.5) / 50MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

5G-FR1 SA UL MIMO n77 (PC1.5) / 60MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

5G-FR1 SA UL MIMO n77 (PC1.5) / 70MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

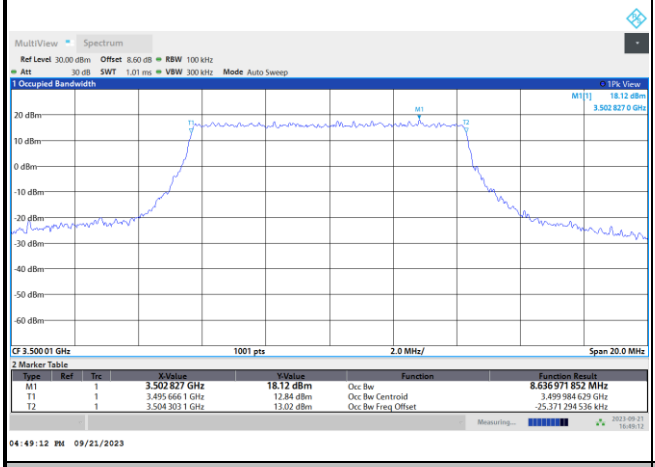
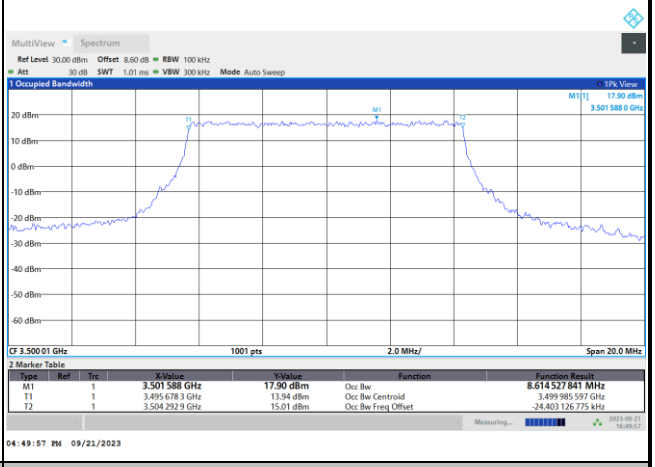
5G-FR1 SA UL MIMO n77 (PC1.5) / 80MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

5G-FR1 SA UL MIMO n77 (PC1.5) / 90MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

Occupied Bandwidth

Mode	5G-FR1 SA UL MIMO n77 (PC1.5) : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.63	8.61	13.67	13.69	18.28	18.30	23.27	23.23
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.60	8.62	13.68	13.69	18.29	18.25	23.26	23.26
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.87	27.86	38.06	38.07	47.56	47.64	57.86	57.85
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	27.86	27.88	38.11	37.99	47.60	47.55	57.83	57.88
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	67.48	67.49	77.39	77.43	87.41	87.39	97.26	97.45
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	67.48	67.42	77.42	77.37	87.48	87.50	97.49	97.46

5G-FR1 SA UL MIMO n77 (PC1.5) / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM