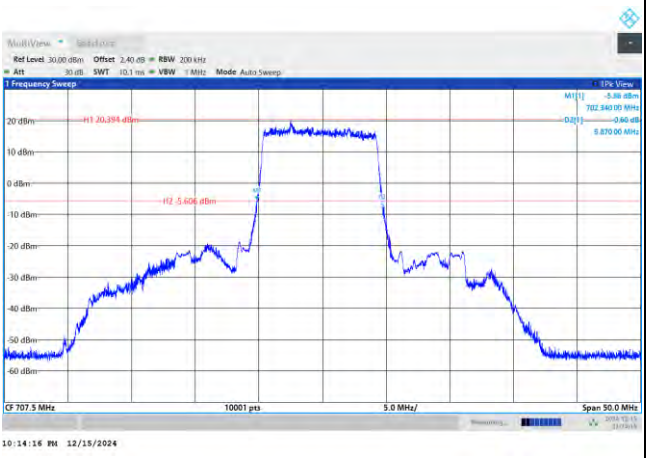
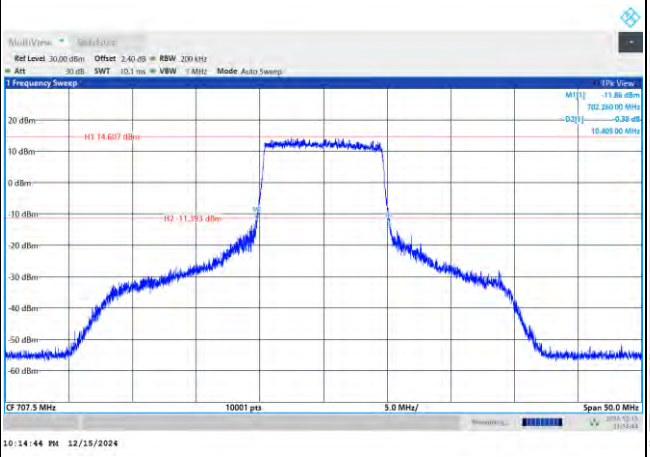
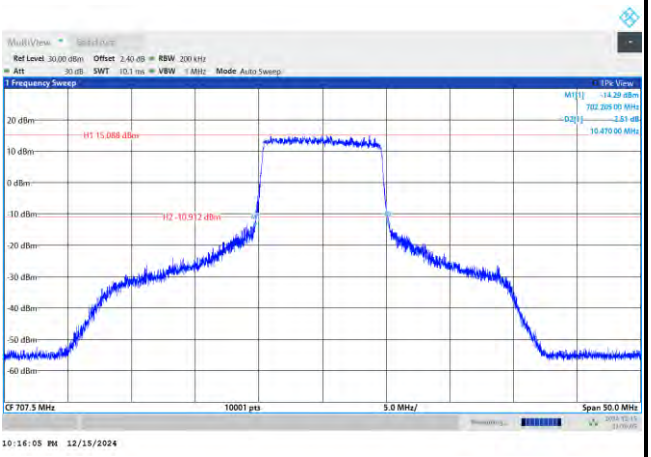
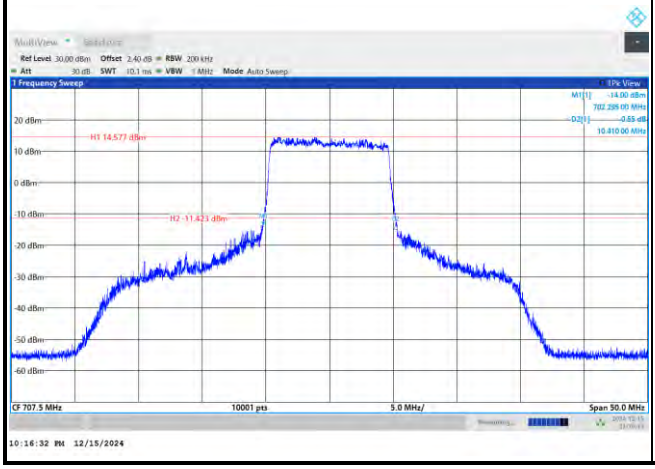
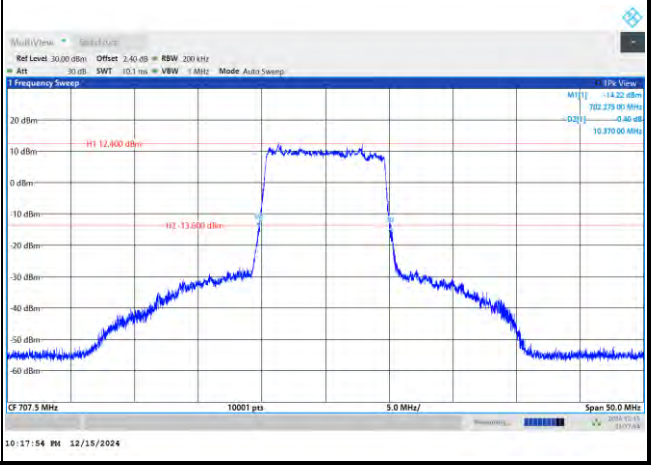
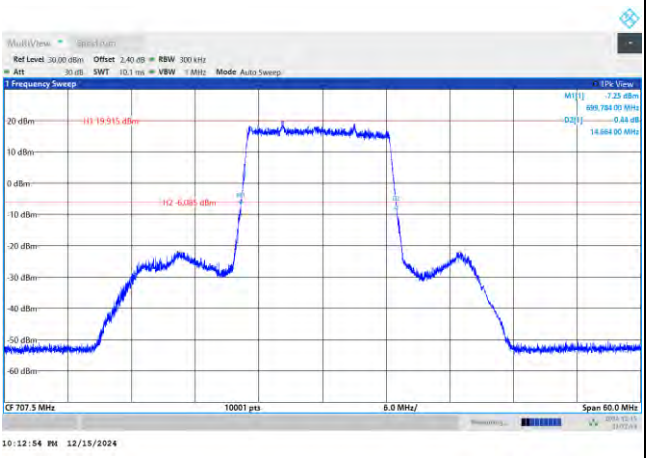
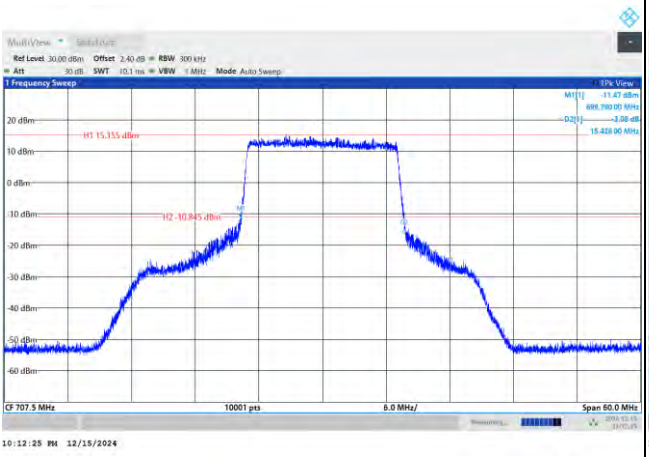
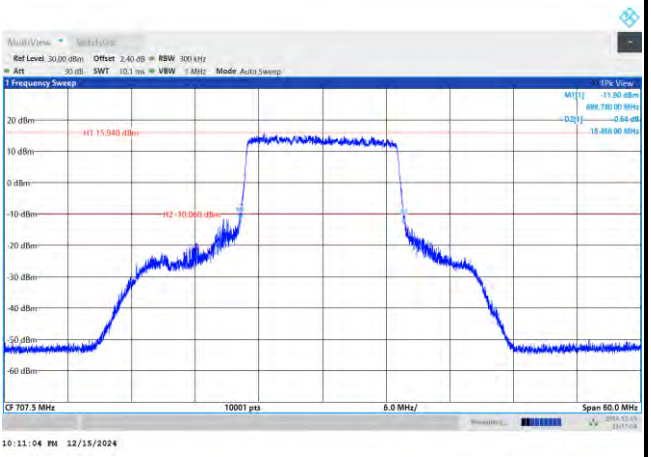
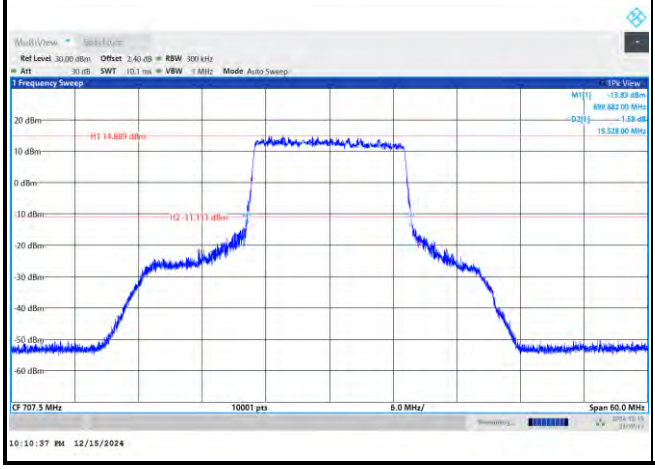
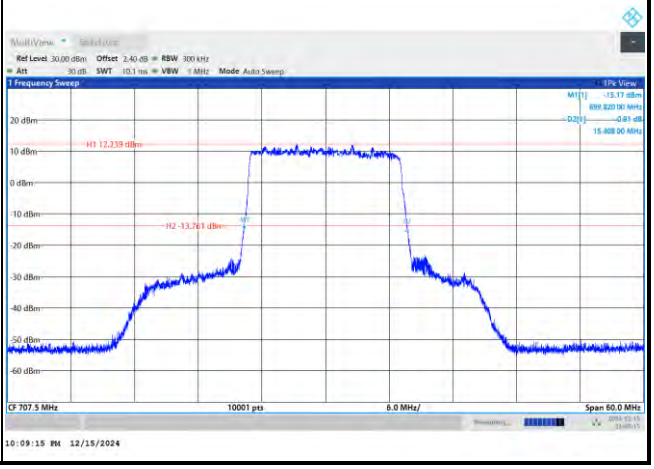
FR1 n12 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n12 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n12 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

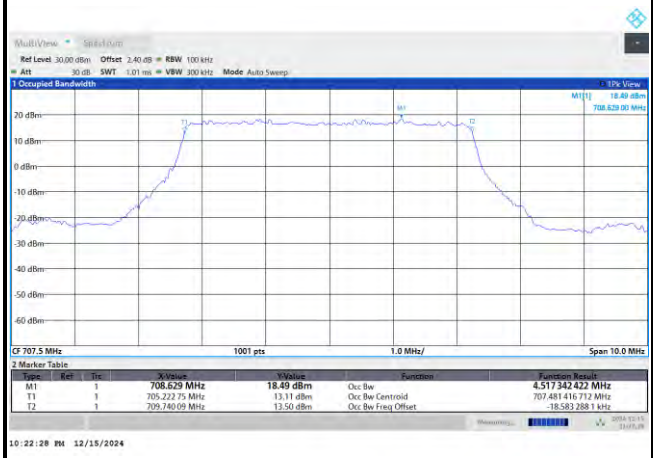
Occupied Bandwidth

Mode	FR1 n12 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	4.51		8.98		13.48			

Mode	FR1 n12 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	4.54	4.51	9.32	9.34	14.19	14.18		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	4.51	4.52	9.34	9.33	14.18	14.16		

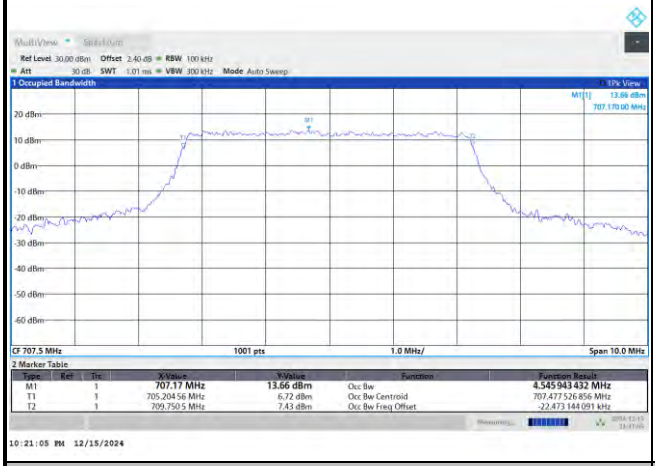
FR1 n12 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

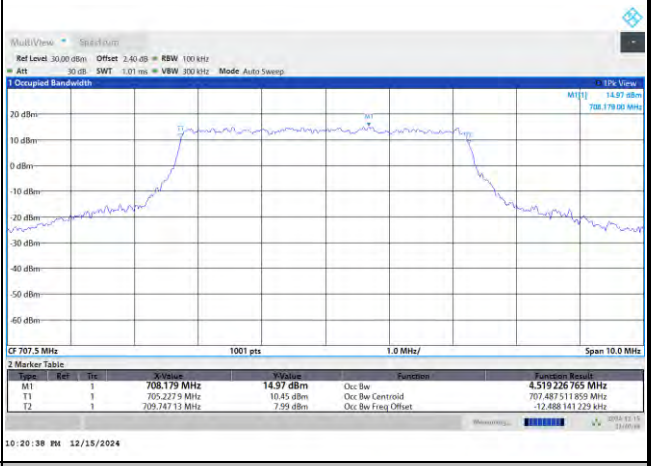


FR1 n12 / 5MHz / CP OFDM / Middle Channel / Full RB

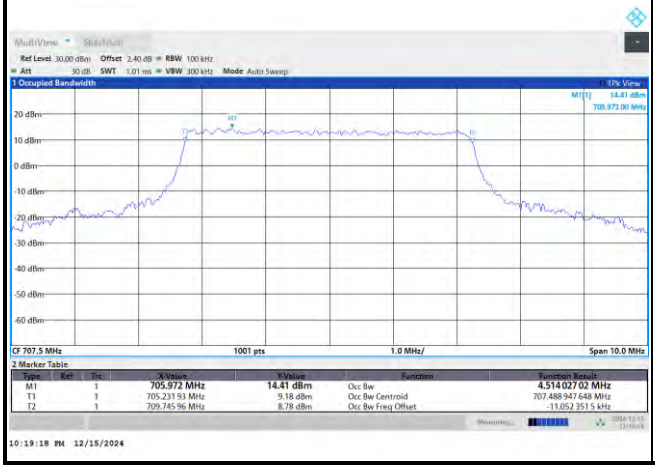
QPSK



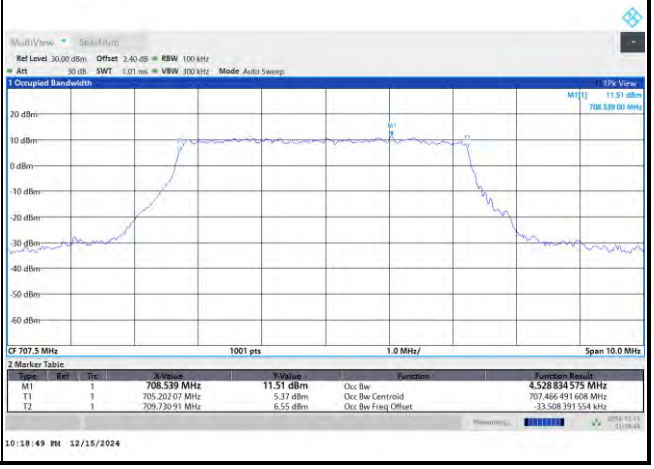
16QAM



64QAM

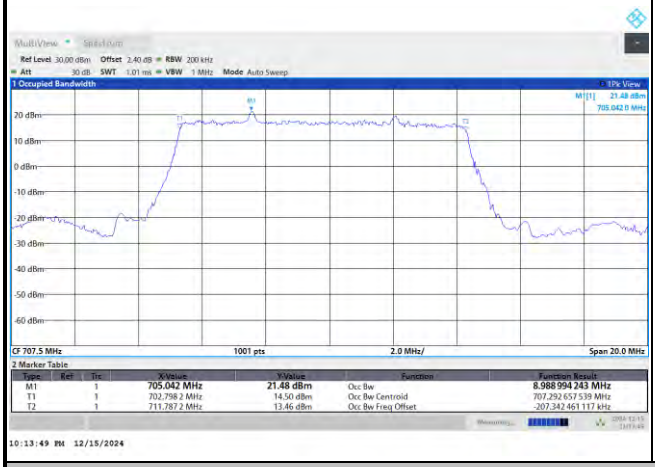


256QAM



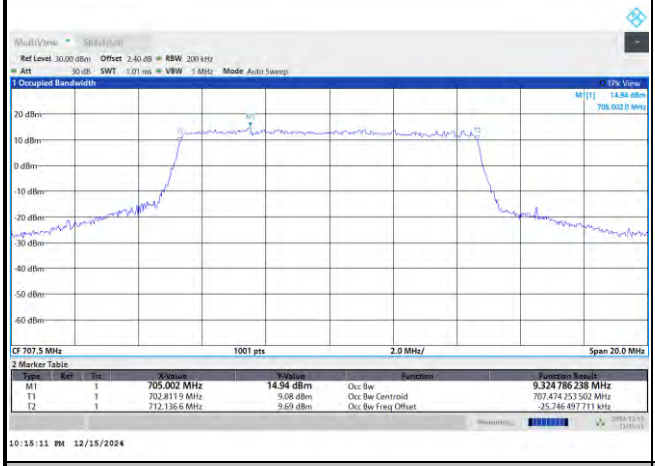
FR1 n12 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

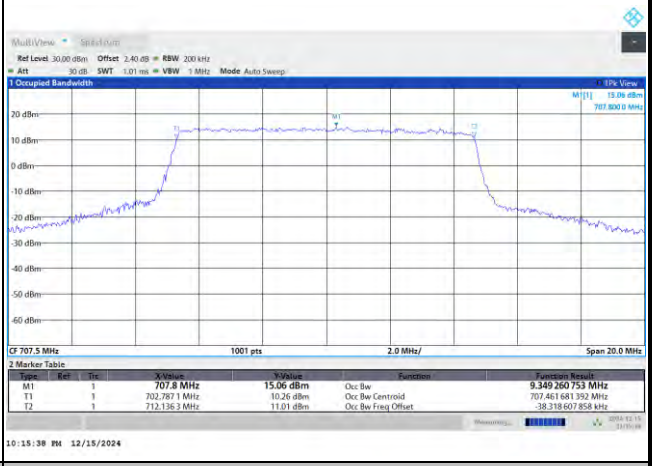


FR1 n12 / 10MHz / CP OFDM / Middle Channel / Full RB

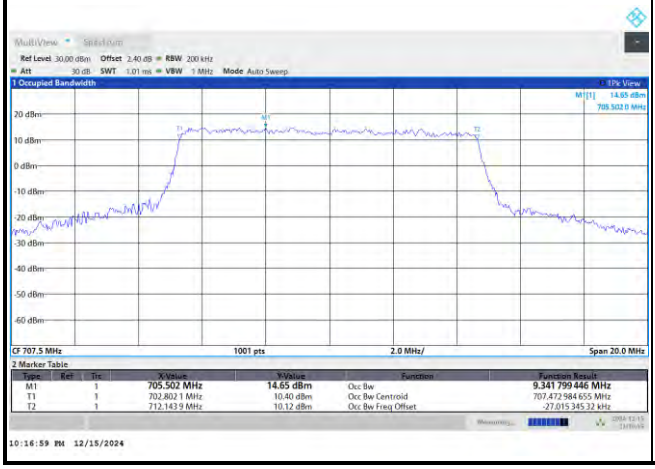
QPSK



16QAM



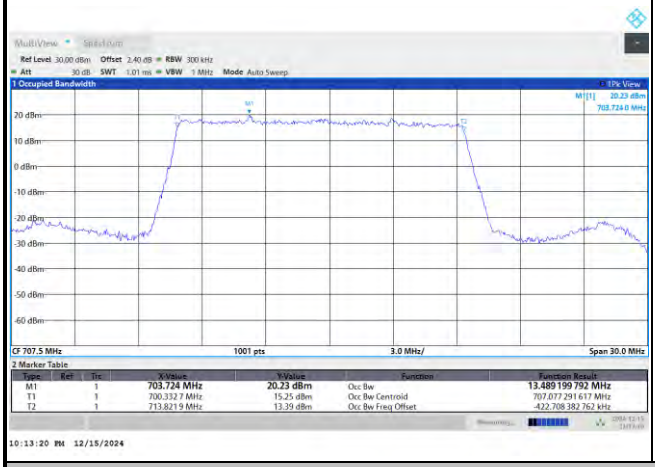
64QAM



256QAM

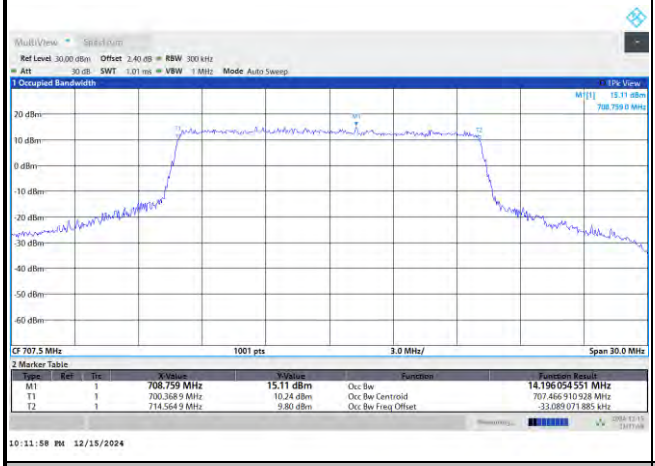
FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

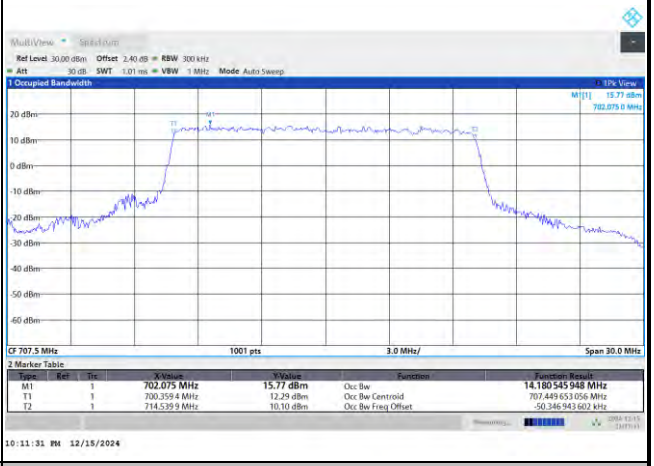


FR1 n12 / 15MHz / CP OFDM / Middle Channel / Full RB

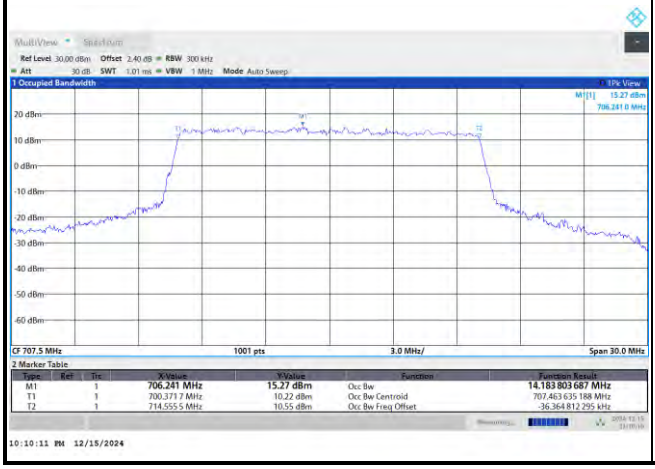
QPSK



16QAM



64QAM

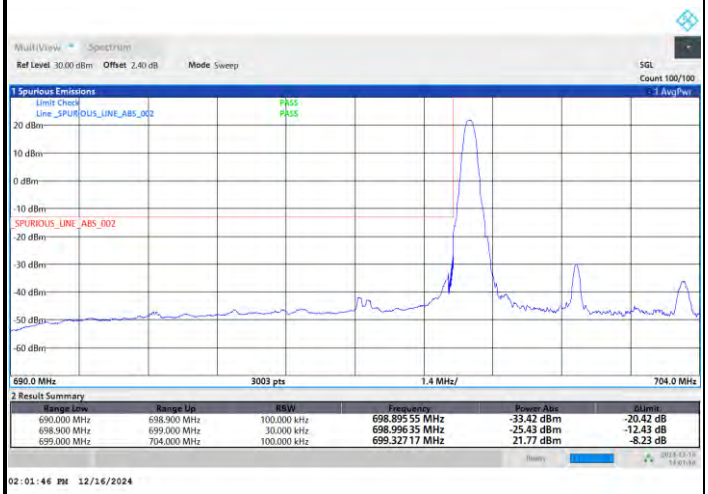


256QAM

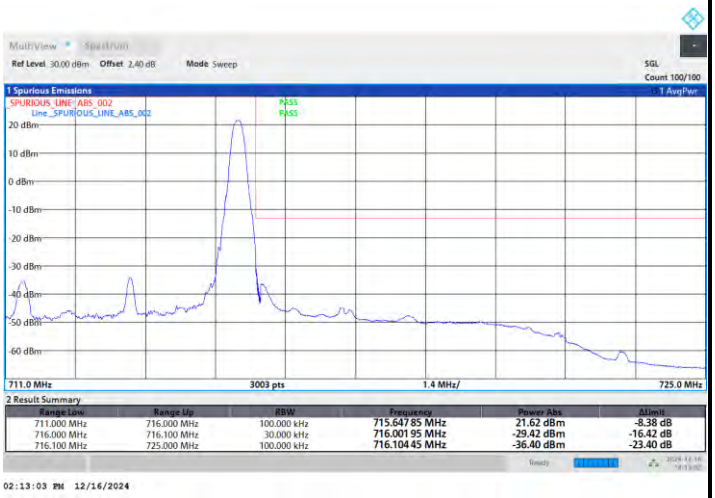
Conducted Band Edge

FR1 n12 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

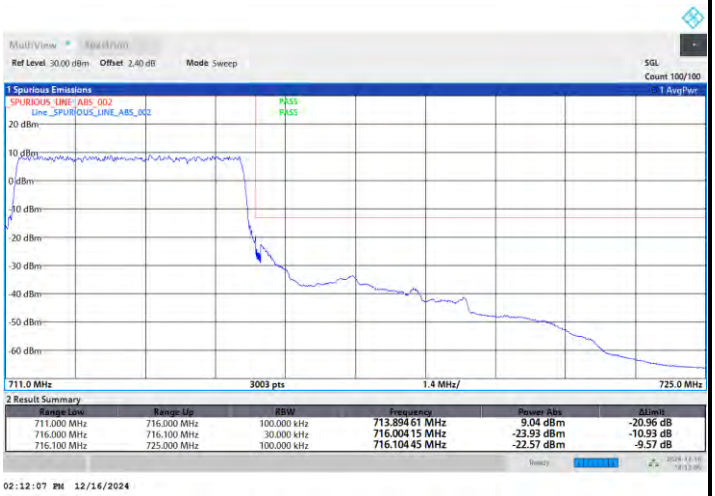


Highest Band Edge / 1RBmax



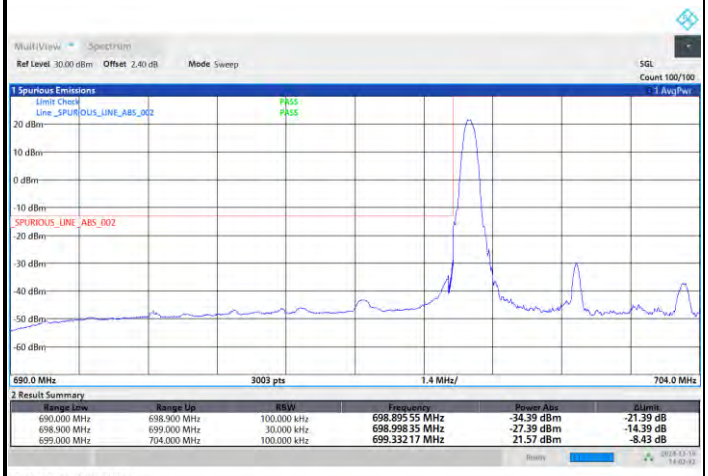
Lowest Band Edge / Full RB

Highest Band Edge / Full RB

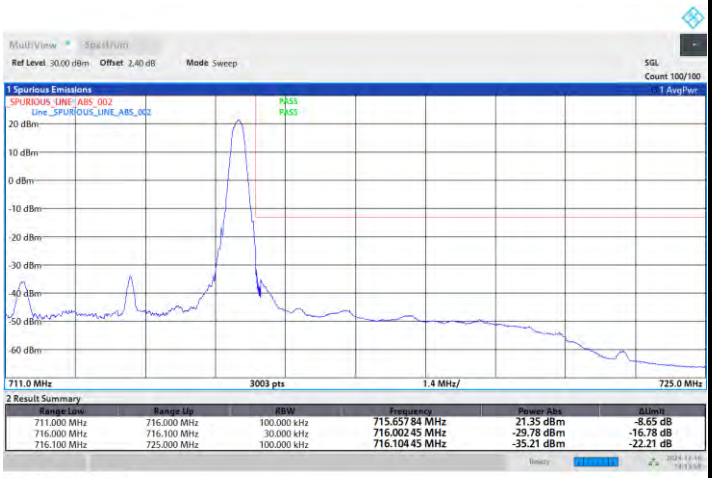


FR1 n12 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



Highest Band Edge / 1RBmax

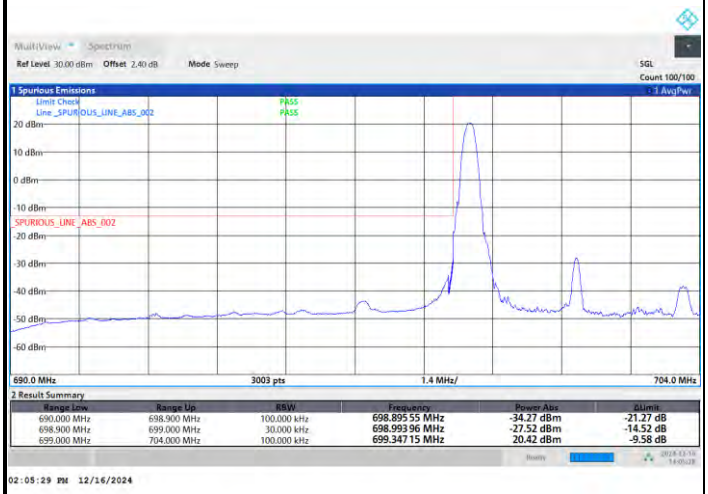


Lowest Band Edge / Full RB

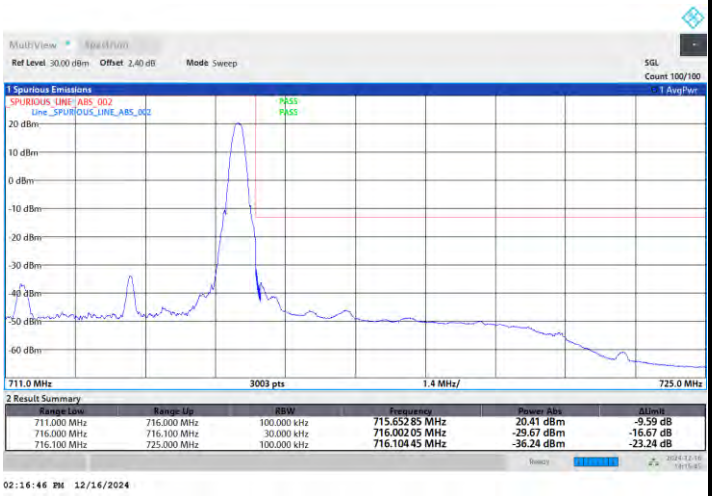
Highest Band Edge / Full RB

FR1 n12 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0



Highest Band Edge / 1RBmax

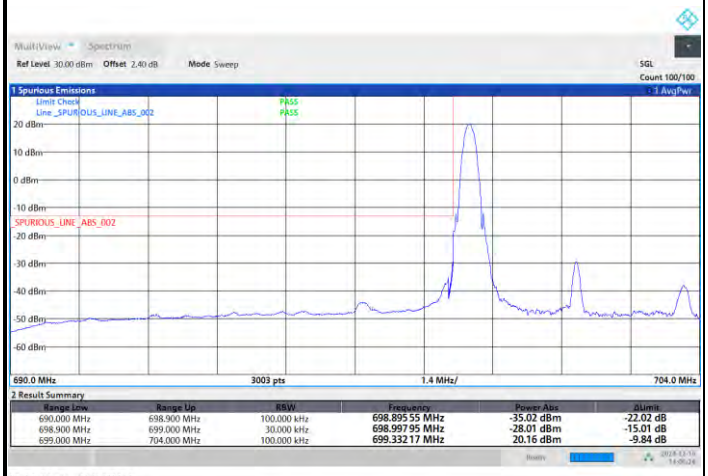


Lowest Band Edge / Full RB

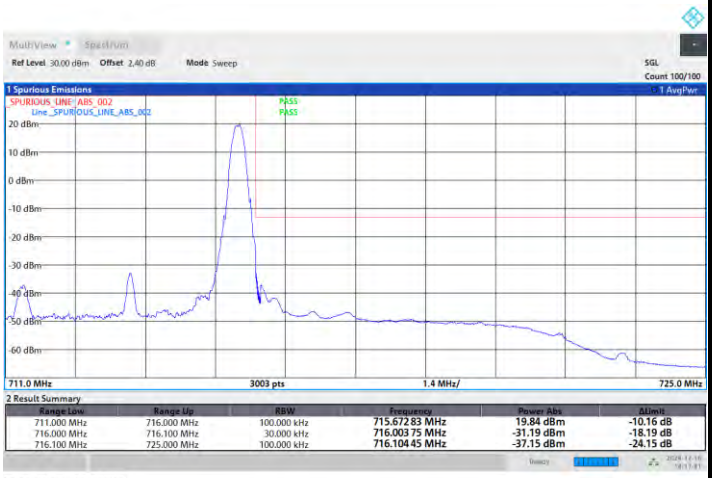
Highest Band Edge / Full RB

FR1 n12 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



Highest Band Edge / 1RBmax

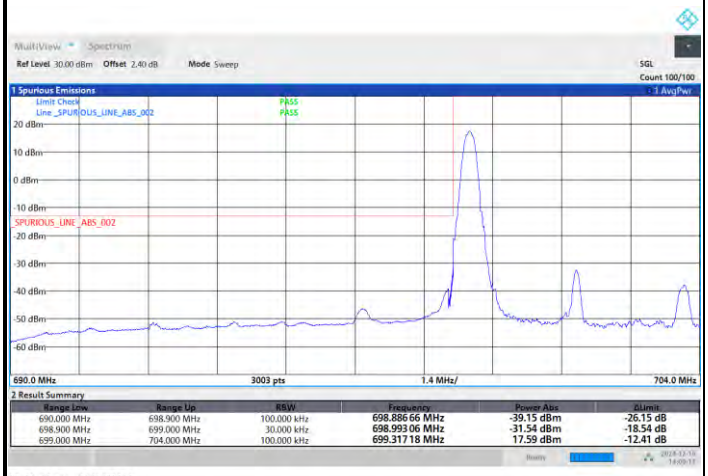


Lowest Band Edge / Full RB

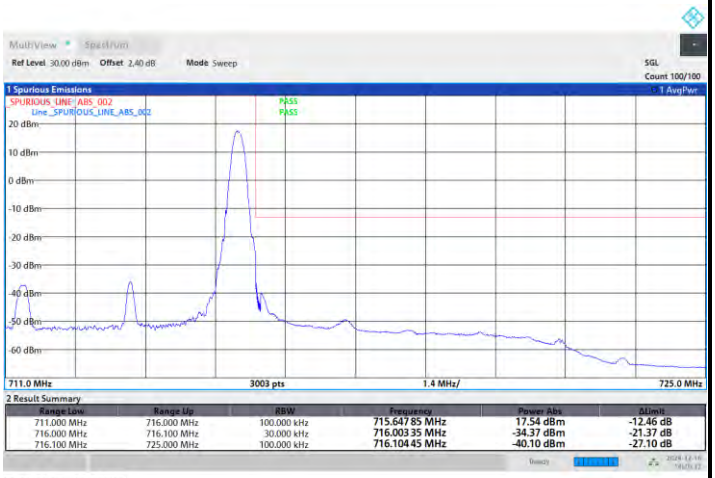
Highest Band Edge / Full RB

FR1 n12 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0



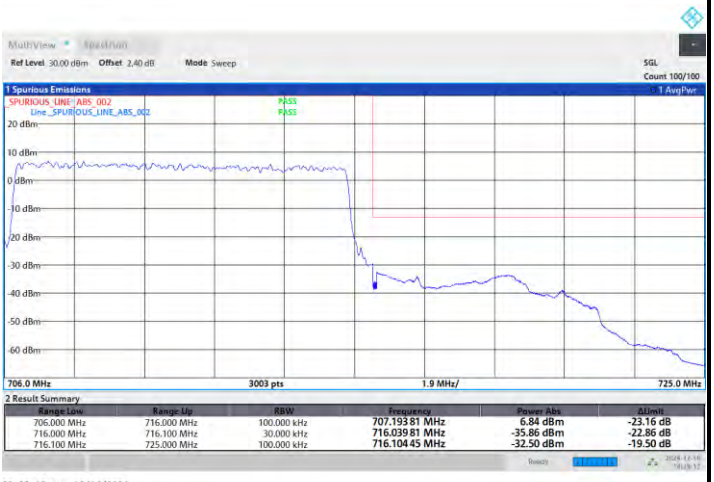
Highest Band Edge / 1RBmax

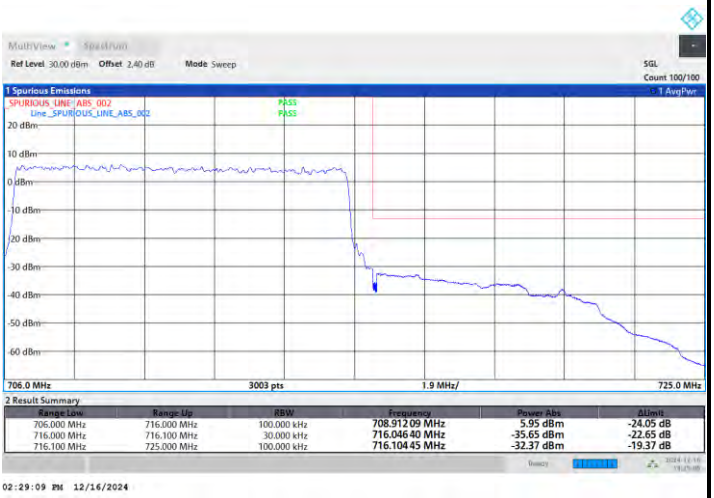


Lowest Band Edge / Full RB

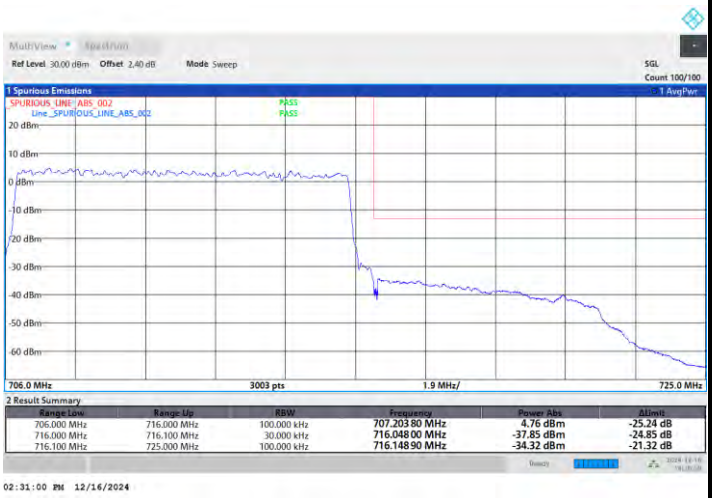
Highest Band Edge / Full RB

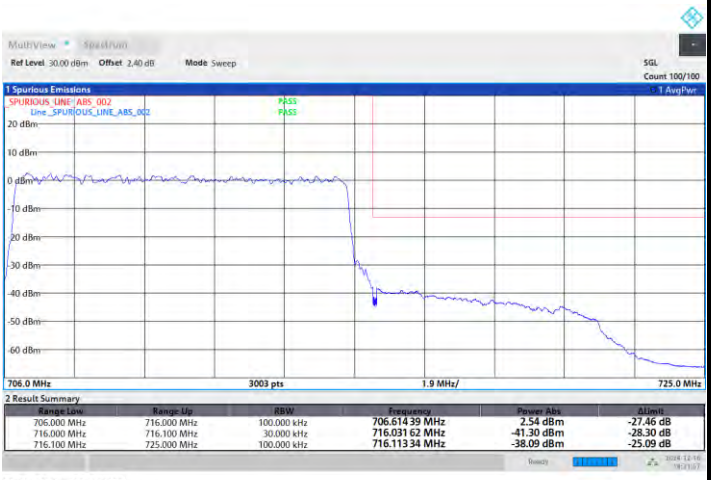
FR1 n12 / 5MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**

FR1 n12 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

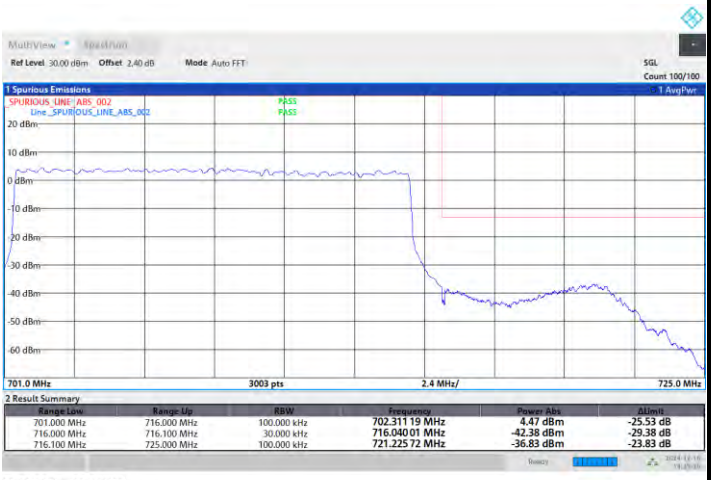
FR1 n12 / 10MHz / DFT-s-OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

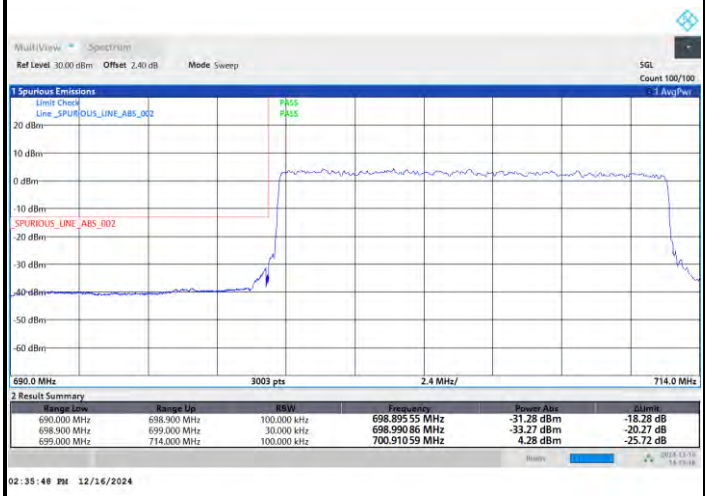
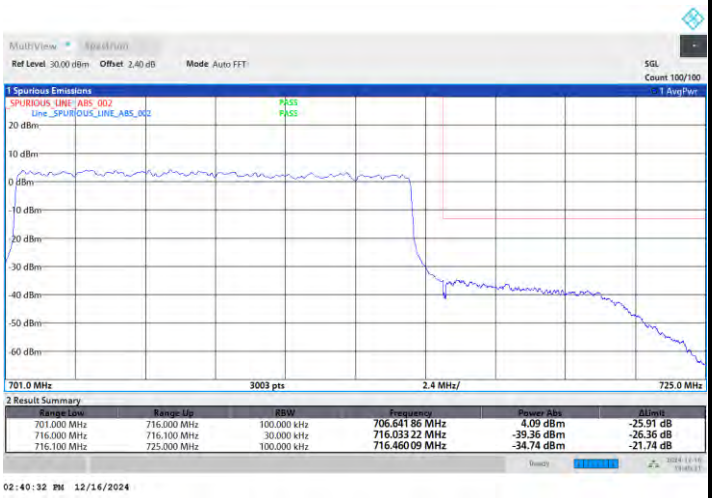
FR1 n12 / 10MHz / DFT-s-OFDM / 16QAM / Full RB	
Lowest Band Edge	**Highest Band Edge**

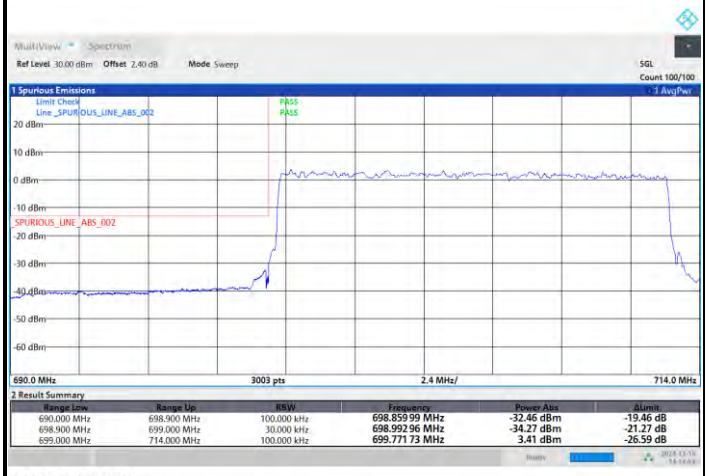
FR1 n12 / 10MHz / DFT-s-OFDM / 64QAM / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

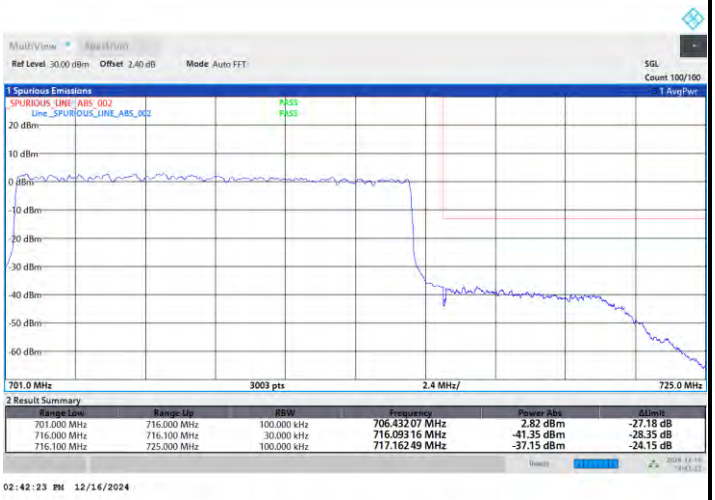
FR1 n12 / 10MHz / DFT-s-OFDM / 256QAM / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n12 / 10MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**

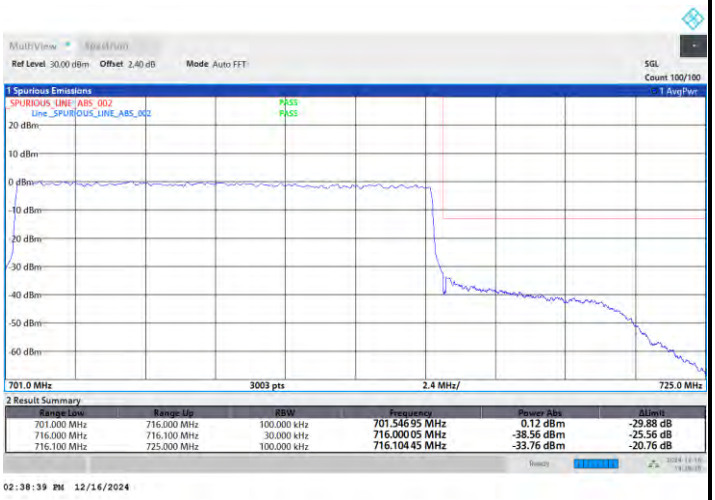
FR1 n12 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n12 / 15MHz / DFT-s-OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n12 / 15MHz / DFT-s-OFDM / 16QAM / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n12 / 15MHz / DFT-s-OFDM / 64QAM / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n12 / 15MHz / DFT-s-OFDM / 256QAM / Full RB	
Lowest Band Edge	**Highest Band Edge**

FR1 n12 / 15MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

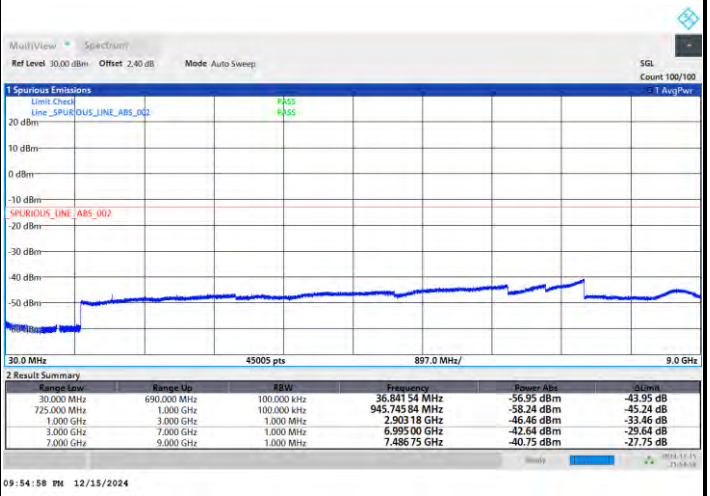
Conducted Spurious Emission

FR1 n12 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

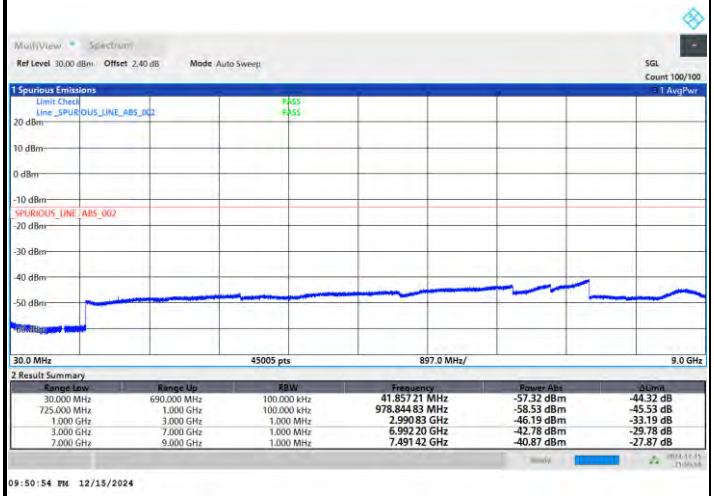
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.934 00 MHz	-53.70 dBm	-40.70 dB
725.000 MHz	1.000 GHz	100.000 kHz	924.264 15 MHz	-58.45 dBm	-45.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.998 50 GHz	-46.36 dBm	-33.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.977 40 GHz	-42.60 dBm	-29.60 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.484 09 GHz	-40.80 dBm	-27.80 dB

Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	36.841 54 MHz	-56.95 dBm	-43.95 dB
725.000 MHz	1.000 GHz	100.000 kHz	945.745 84 MHz	-58.24 dBm	-45.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.903 18 GHz	-46.46 dBm	-33.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.995 00 GHz	-42.64 dBm	-29.64 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.486 75 GHz	-40.75 dBm	-27.75 dB

Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	41.857 21 MHz	-57.32 dBm	-44.32 dB
725.000 MHz	1.000 GHz	100.000 kHz	978.844 83 MHz	-58.53 dBm	-45.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.990 83 GHz	-46.19 dBm	-33.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.992 20 GHz	-42.78 dBm	-29.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.491 42 GHz	-40.87 dBm	-27.87 dB

Frequency Stability

Test Conditions		FR1 n12 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0043	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0035	
20	Minimum Voltage	0.0020	

Note:

1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

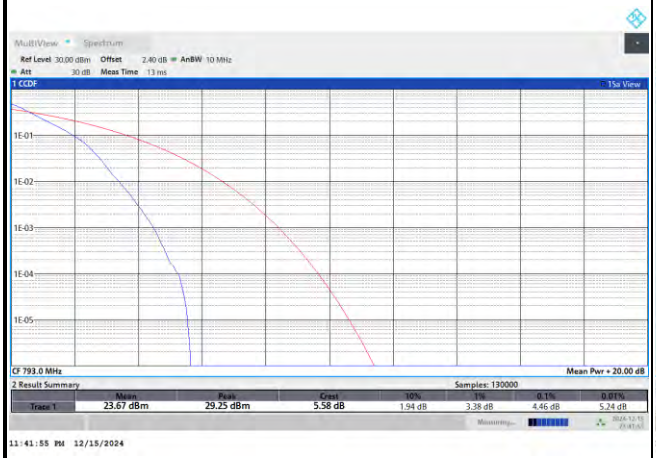
FR1 n14

Peak-to-Average Ratio

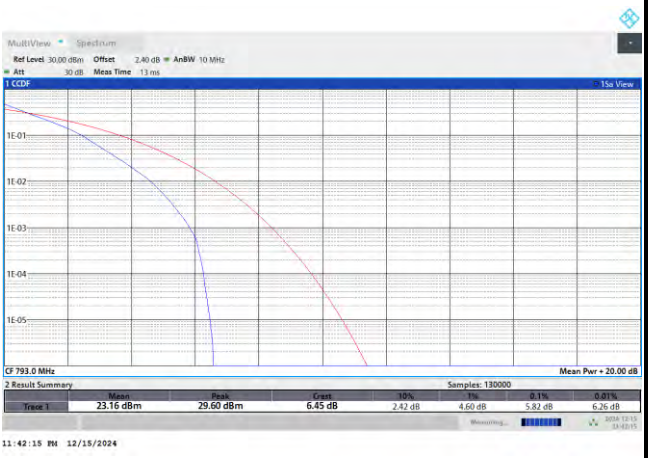
Mode	FR1 n14 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	5.82	6.54	6.46	PASS
Mode	FR1 n14 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.38				PASS

FR1 n14 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

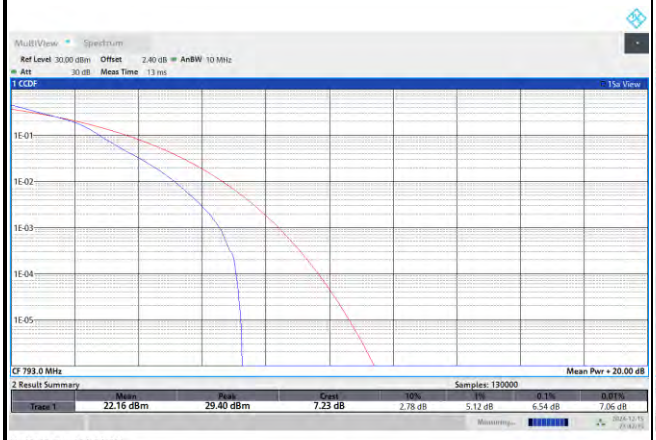
PI/2 BPSK



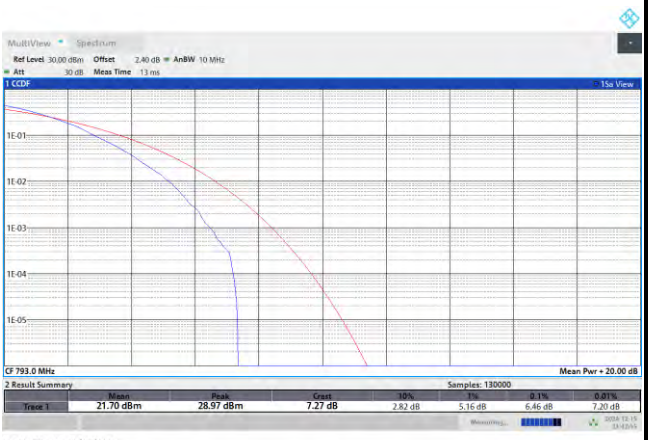
QPSK



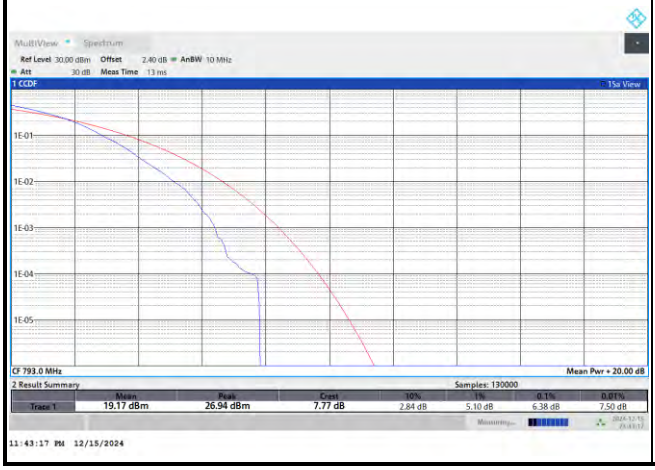
16QAM



64QAM



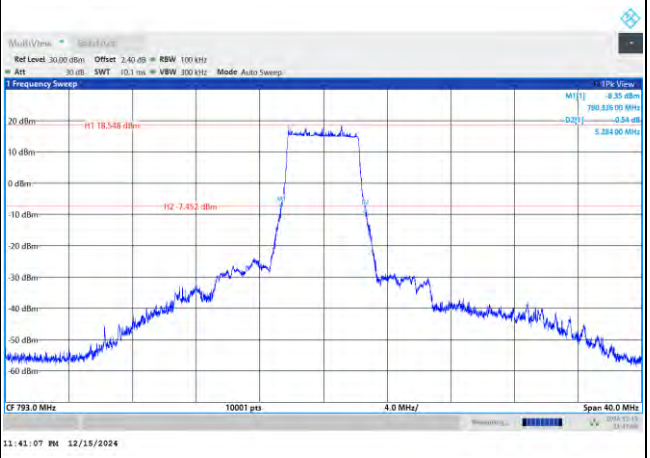
256QAM

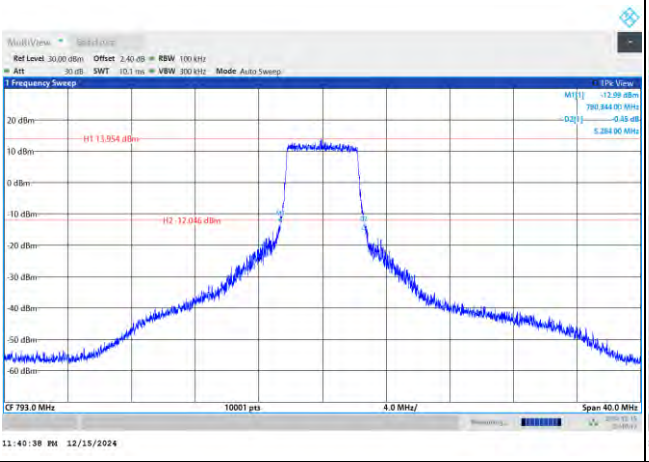
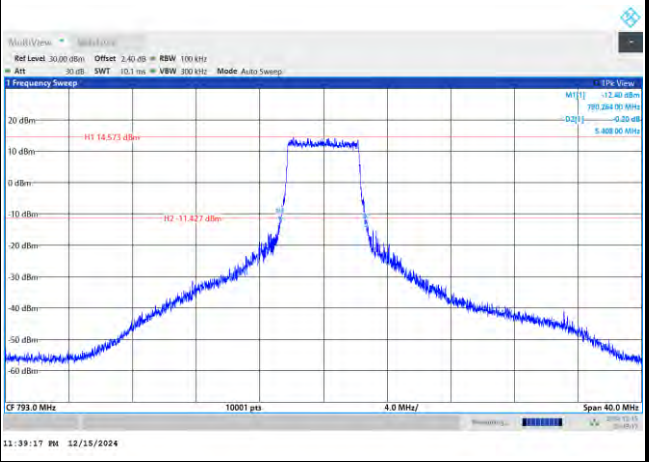
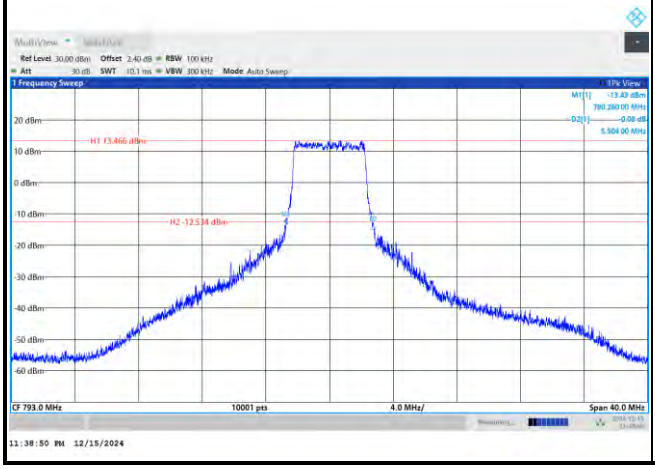
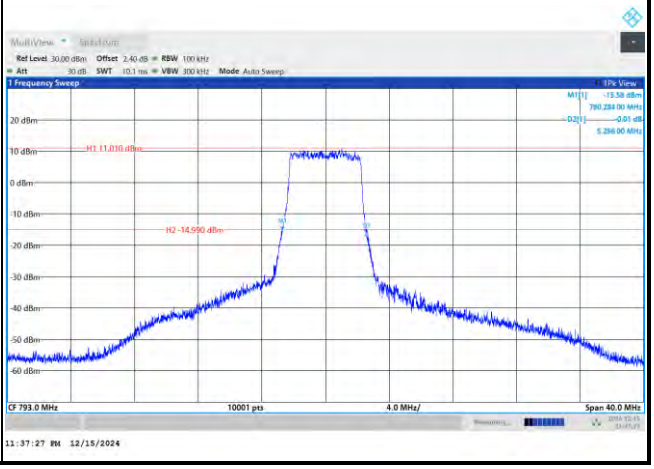


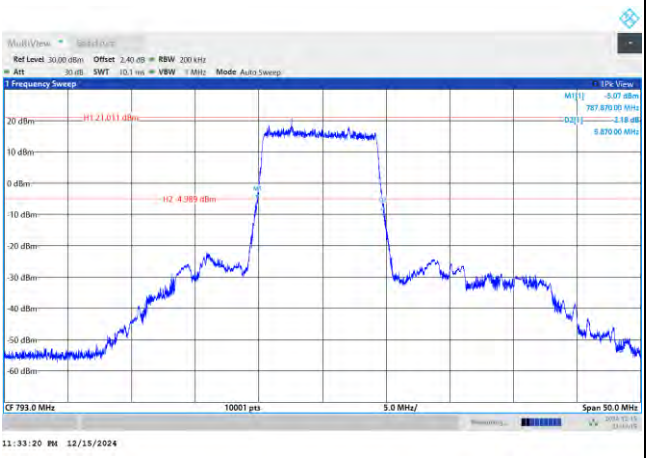
26dB Bandwidth

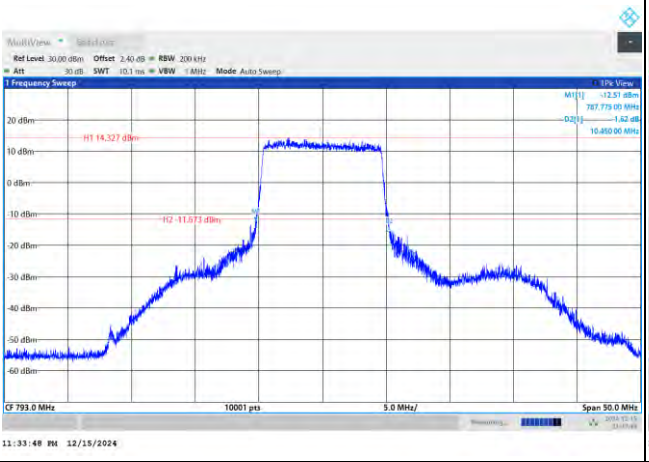
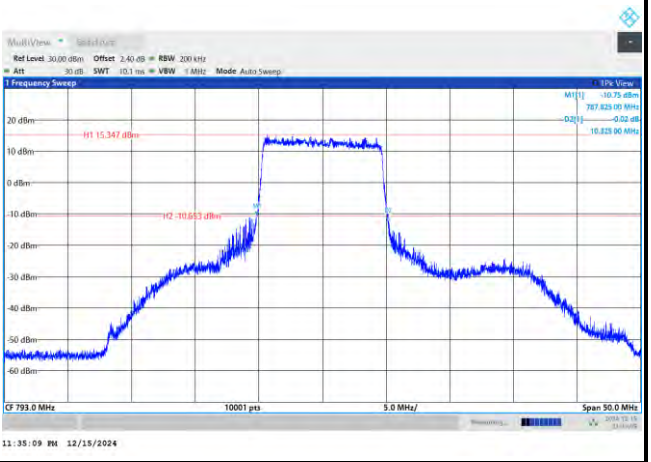
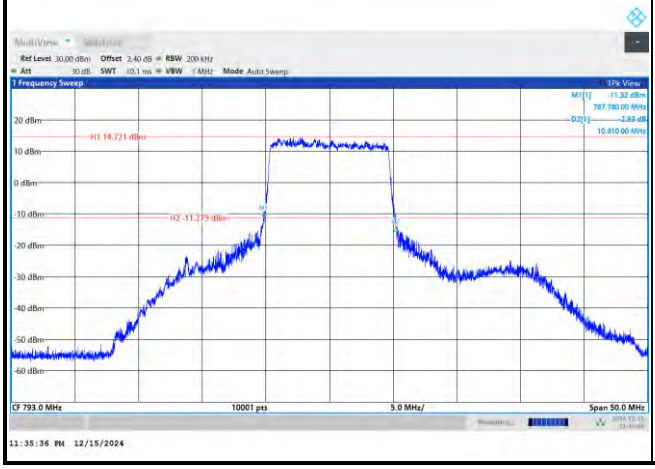
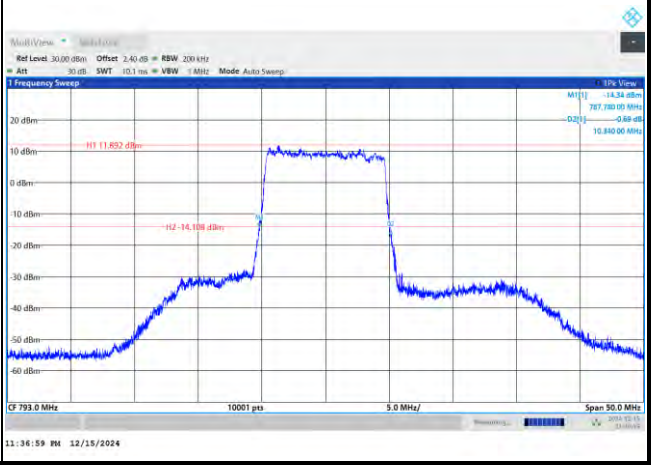
Mode	FR1 n14 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.28		9.87					

Mode	FR1 n14 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	5.26	5.40	10.45	10.32				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	5.50	5.29	10.41	10.34				

FR1 n14 / 5MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n14 / 5MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n14 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n14 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

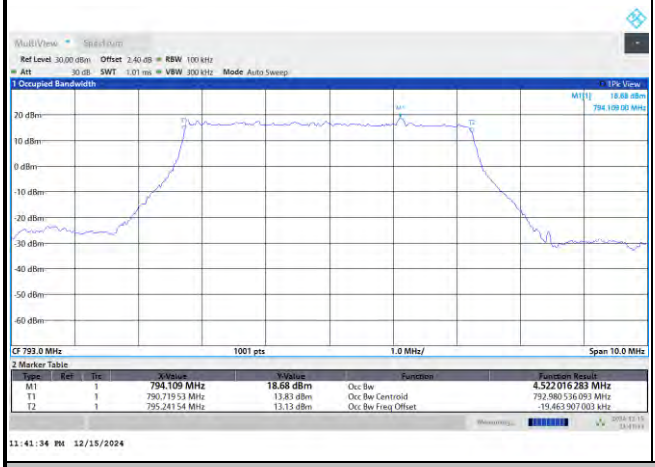
Occupied Bandwidth

Mode	FR1 n14 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.52		9.00					

Mode	FR1 n14 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.52	4.52	9.32	9.34				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.53	4.51	9.35	9.34				

FR1 n14 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

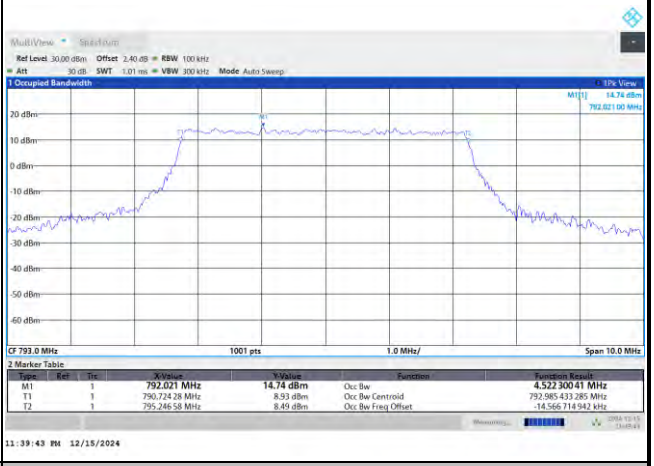
PI/2 BPSK



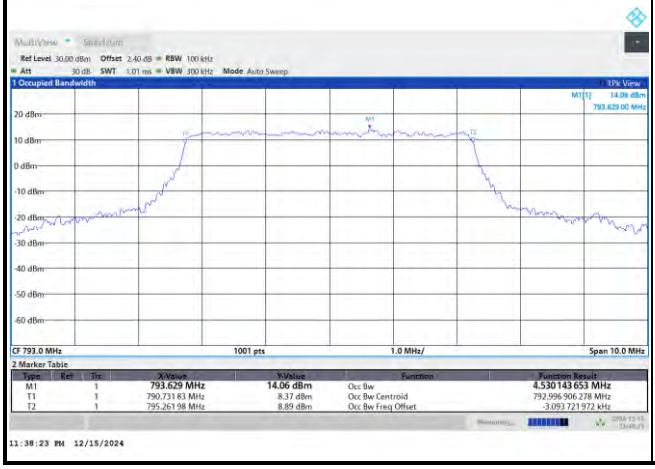
FR1 n14 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK

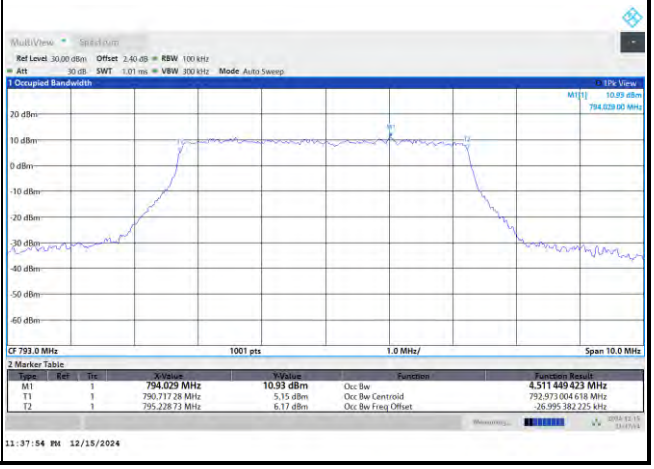
16QAM



64QAM

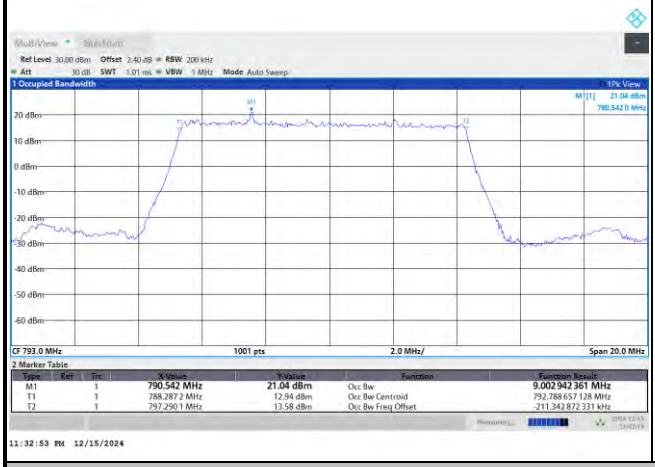


256QAM



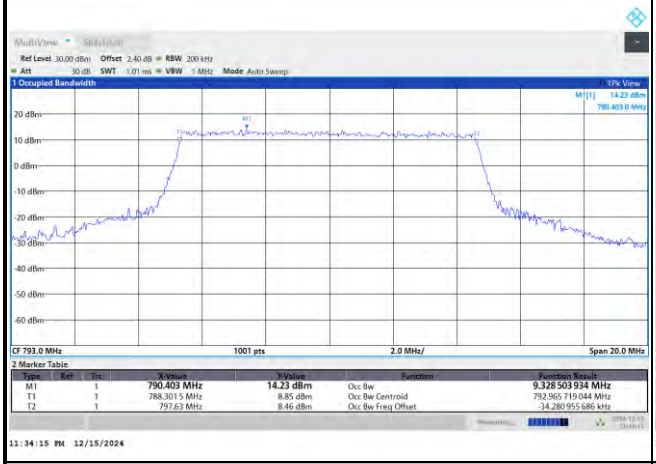
FR1 n14 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

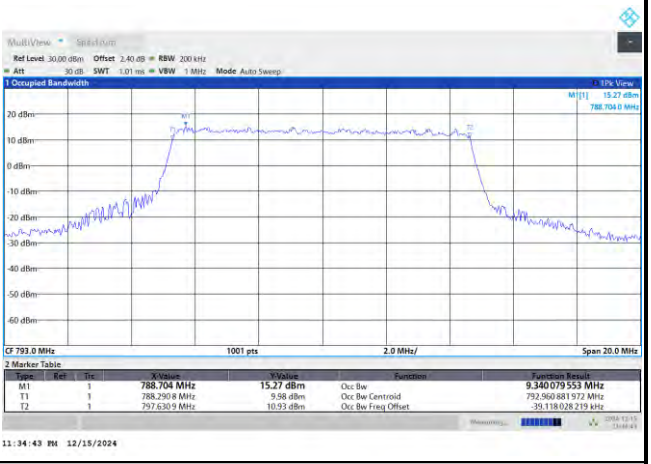


FR1 n14 / 10MHz / CP OFDM / Middle Channel / Full RB

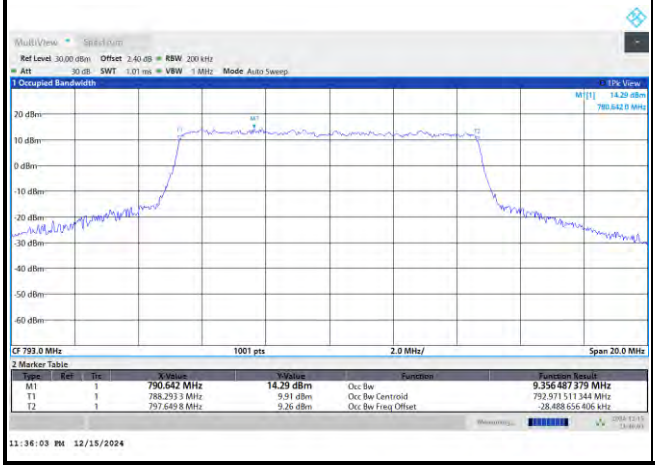
QPSK



16QAM



64QAM

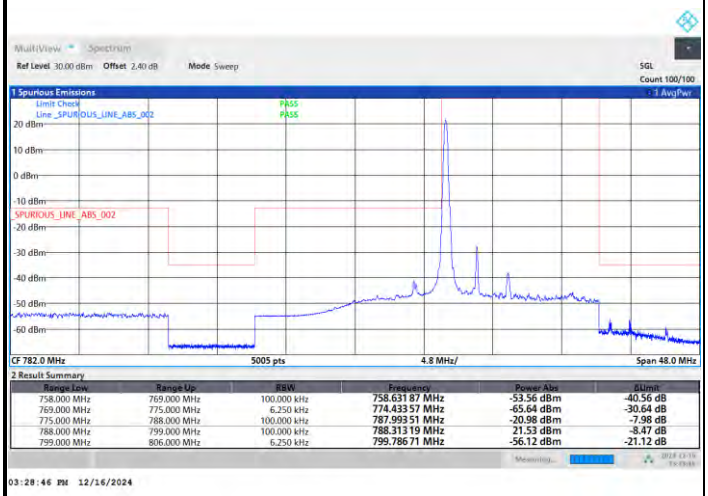


256QAM

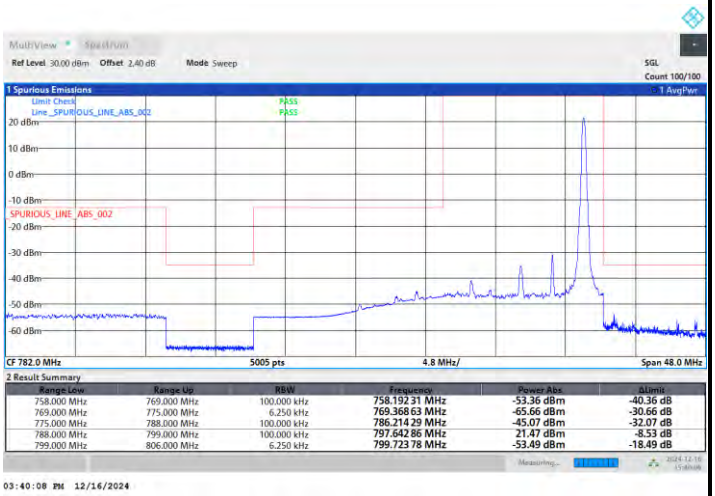
Conducted Band Edge

FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK

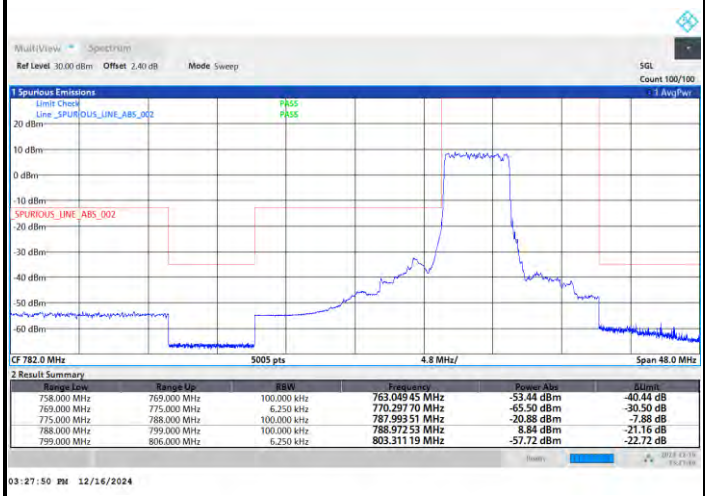
Lowest Band Edge / 1RB0



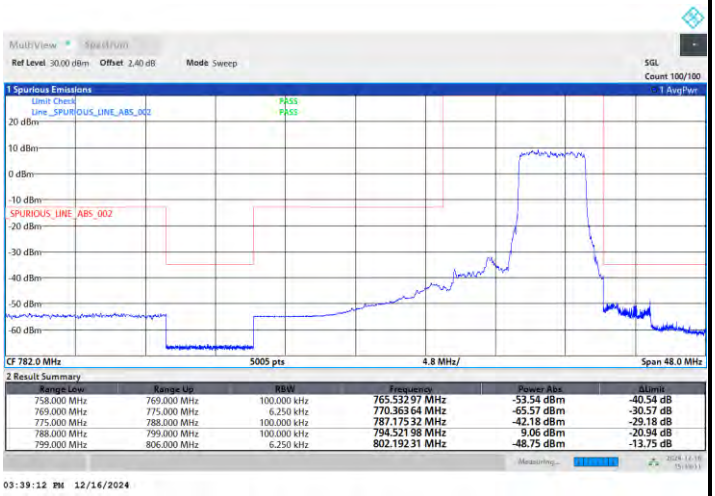
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

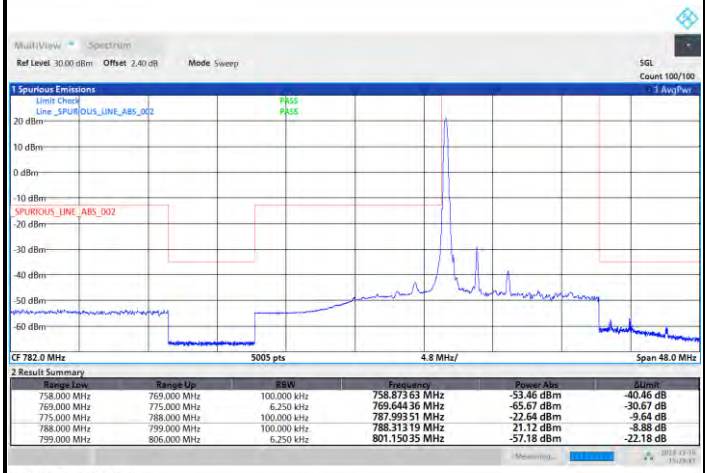


Highest Band Edge / Full RB



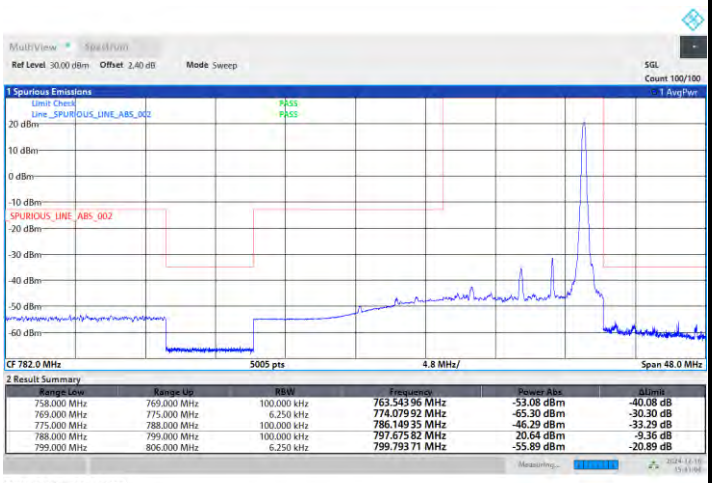
FR1 n14 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.873 63 MHz	-53.46 dBm	-40.46 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.644 36 MHz	-65.67 dBm	-30.67 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-22.64 dBm	-9.64 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.313 19 MHz	21.12 dBm	-8.88 dB
799.000 MHz	806.000 MHz	6.250 kHz	801.150 35 MHz	-57.18 dBm	-22.18 dB

Highest Band Edge / 1RBmax

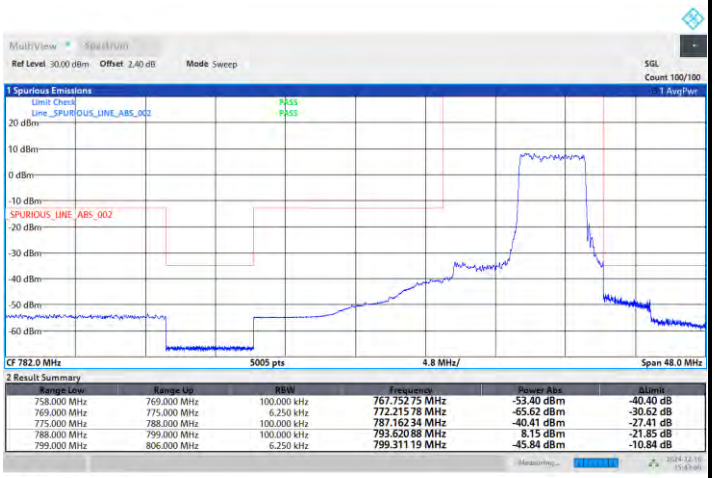


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	763.543 96 MHz	-53.08 dBm	-40.08 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.079 92 MHz	-65.30 dBm	-30.30 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.149 35 MHz	-46.29 dBm	-33.29 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.675 82 MHz	20.64 dBm	-9.36 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.793 71 MHz	-55.89 dBm	-20.89 dB

Lowest Band Edge / Full RB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	761.214 29 MHz	-53.36 dBm	-40.36 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.288 71 MHz	-65.49 dBm	-30.49 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.980 52 MHz	-22.35 dBm	-9.35 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.280 22 MHz	8.58 dBm	-21.42 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.157 34 MHz	-56.40 dBm	-21.40 dB

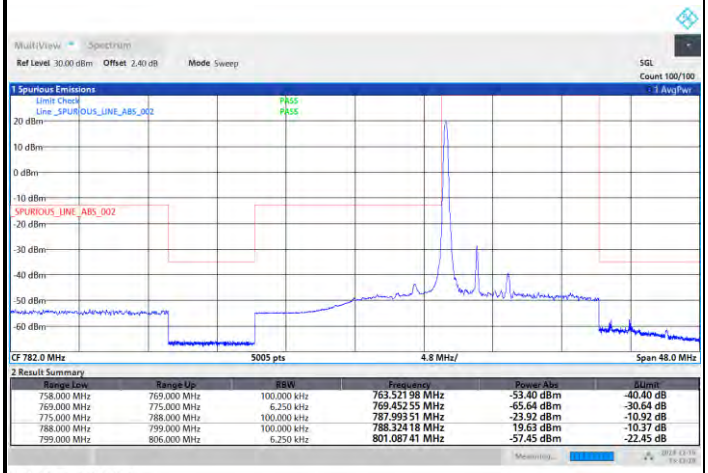
Highest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	767.752 75 MHz	-53.40 dBm	-40.40 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.215 78 MHz	-65.62 dBm	-30.62 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.162 34 MHz	-40.41 dBm	-27.41 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.620 88 MHz	8.15 dBm	-21.85 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.311 19 MHz	-45.84 dBm	-10.84 dB

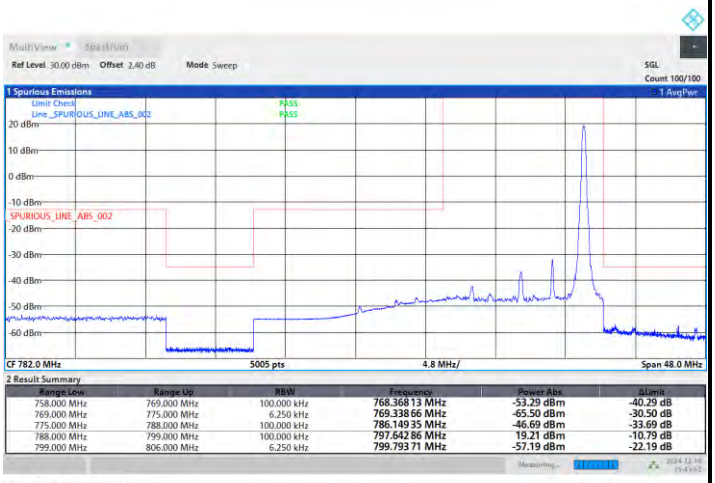
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0



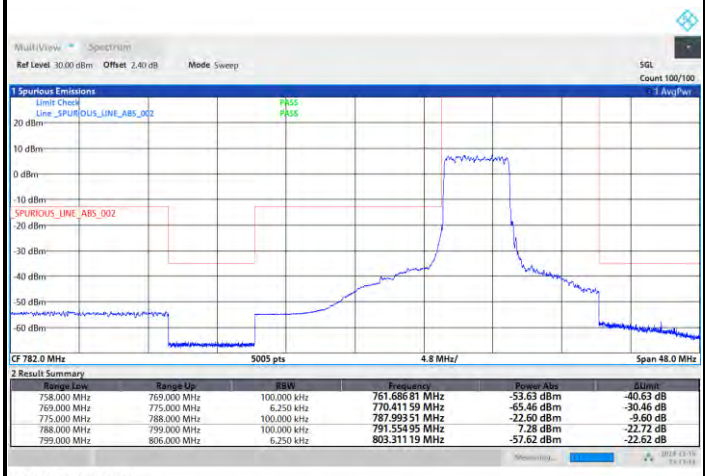
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	763.521 98 MHz	-53.40 dBm	-40.40 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.452 55 MHz	-65.64 dBm	-30.64 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-23.92 dBm	-10.92 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.324 18 MHz	19.63 dBm	-10.37 dB
799.000 MHz	806.000 MHz	6.250 kHz	801.087 41 MHz	-57.45 dBm	-22.45 dB

Highest Band Edge / 1RBmax



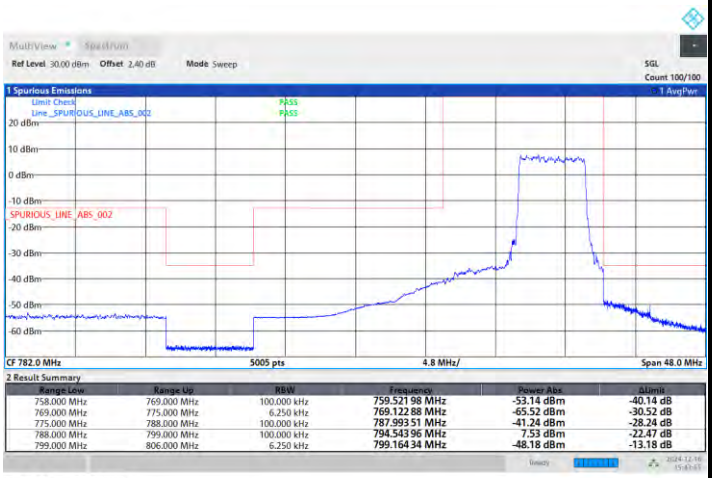
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	768.368 13 MHz	-53.29 dBm	-40.29 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.338 66 MHz	-65.50 dBm	-30.50 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.149 35 MHz	-46.69 dBm	-33.69 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.642 86 MHz	19.21 dBm	-10.79 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.793 71 MHz	-57.19 dBm	-22.19 dB

Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	761.686 81 MHz	-53.63 dBm	-40.63 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.411 59 MHz	-65.46 dBm	-30.46 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-22.60 dBm	-9.60 dB
788.000 MHz	799.000 MHz	100.000 kHz	791.554 95 MHz	7.28 dBm	-22.72 dB
799.000 MHz	806.000 MHz	6.250 kHz	803.311 19 MHz	-57.62 dBm	-22.62 dB

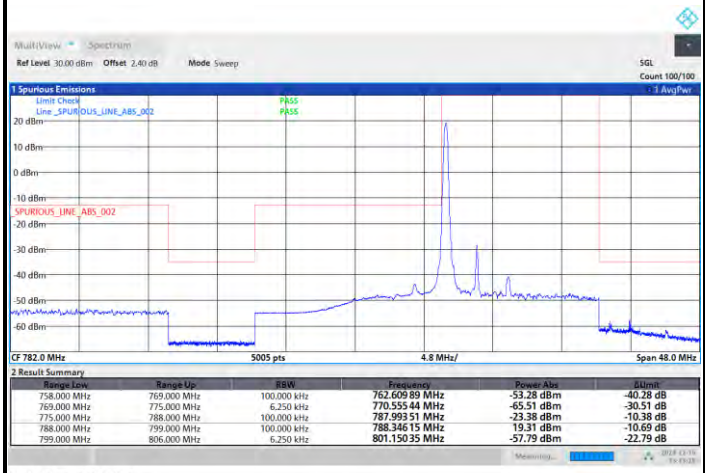
Highest Band Edge / Full RB



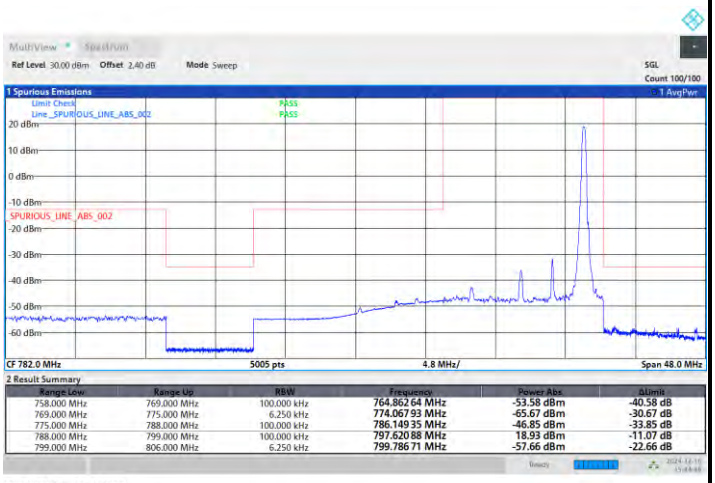
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.521 98 MHz	-53.14 dBm	-40.14 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.122 88 MHz	-65.52 dBm	-30.52 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-41.24 dBm	-28.24 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.543 96 MHz	7.53 dBm	-22.47 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.164 34 MHz	-48.18 dBm	-13.18 dB

FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

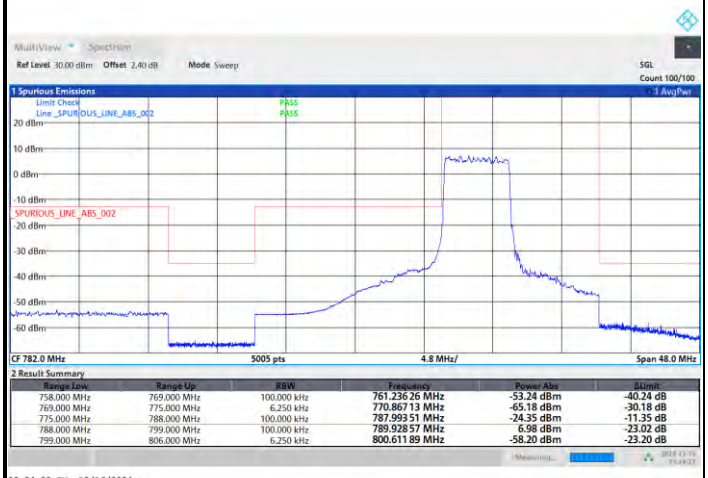
Lowest Band Edge / 1RB0



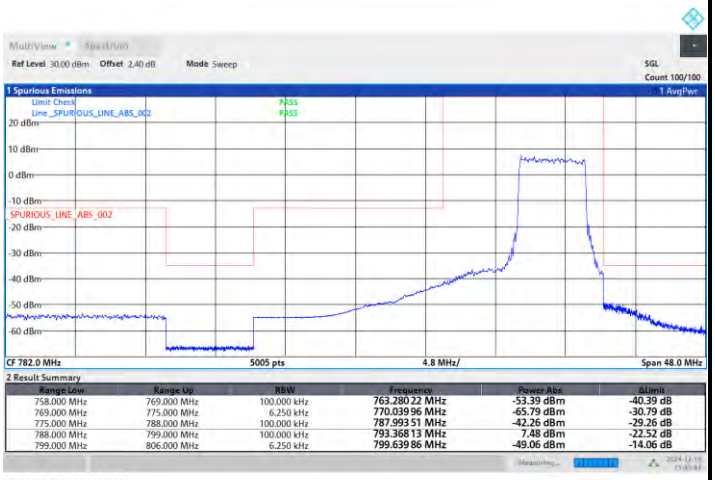
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

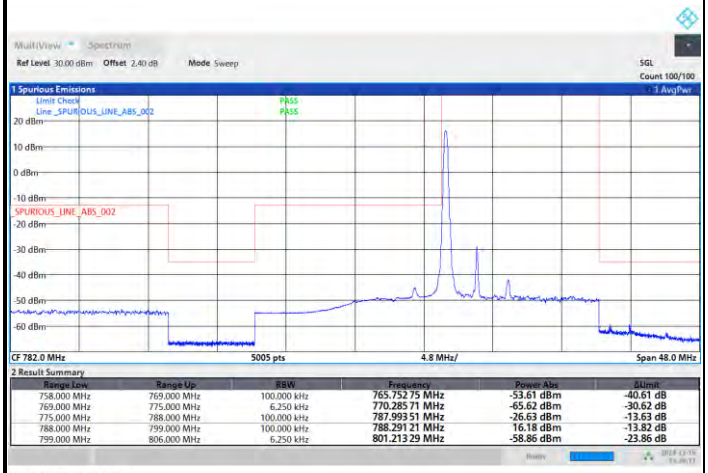


Highest Band Edge / Full RB



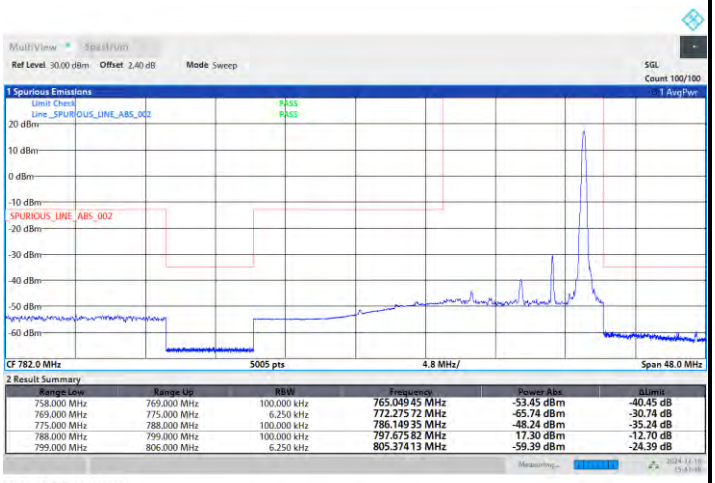
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0



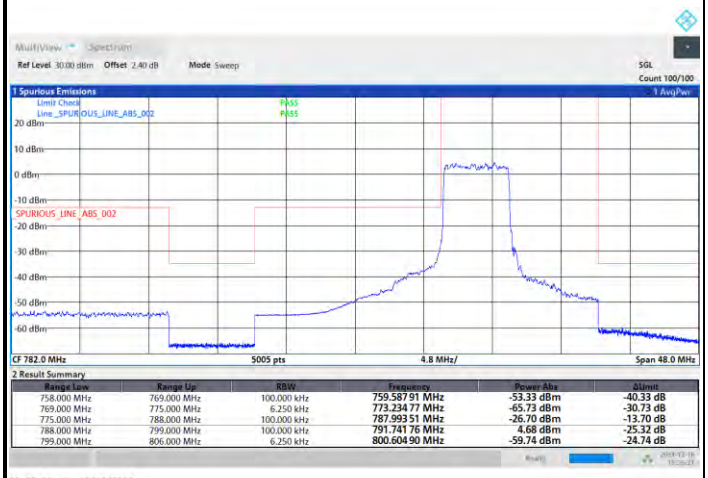
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	765.752 75 MHz	-53.61 dBm	-40.61 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.285 71 MHz	-65.62 dBm	-30.62 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-26.63 dBm	-13.63 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.291 21 MHz	16.18 dBm	-13.82 dB
799.000 MHz	806.000 MHz	6.250 kHz	801.213 29 MHz	-58.86 dBm	-23.86 dB

Highest Band Edge / 1RBmax



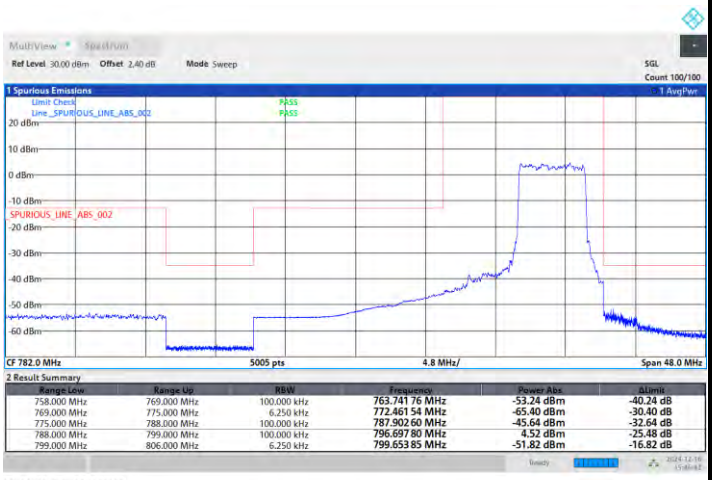
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	765.049 45 MHz	-53.45 dBm	-40.45 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.275 72 MHz	-65.74 dBm	-30.74 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.149 35 MHz	-48.24 dBm	-35.24 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.675 82 MHz	17.30 dBm	-12.70 dB
799.000 MHz	806.000 MHz	6.250 kHz	805.374 13 MHz	-59.39 dBm	-24.39 dB

Lowest Band Edge / Full RB

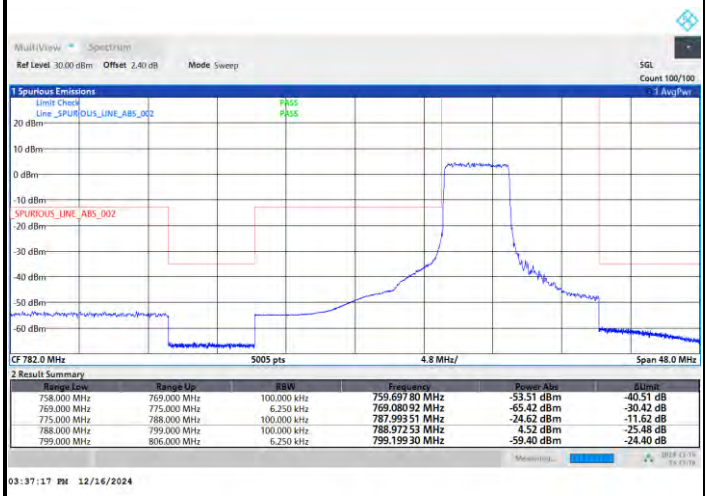
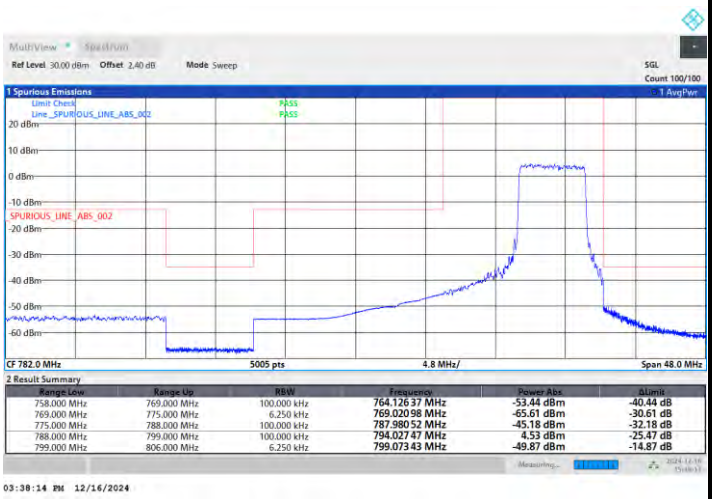


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.587 91 MHz	-53.33 dBm	-40.33 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.234 77 MHz	-65.73 dBm	-30.73 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-26.70 dBm	-13.70 dB
788.000 MHz	799.000 MHz	100.000 kHz	791.741 76 MHz	4.68 dBm	-25.32 dB
799.000 MHz	806.000 MHz	6.250 kHz	800.604 90 MHz	-59.74 dBm	-24.74 dB

Highest Band Edge / Full RB



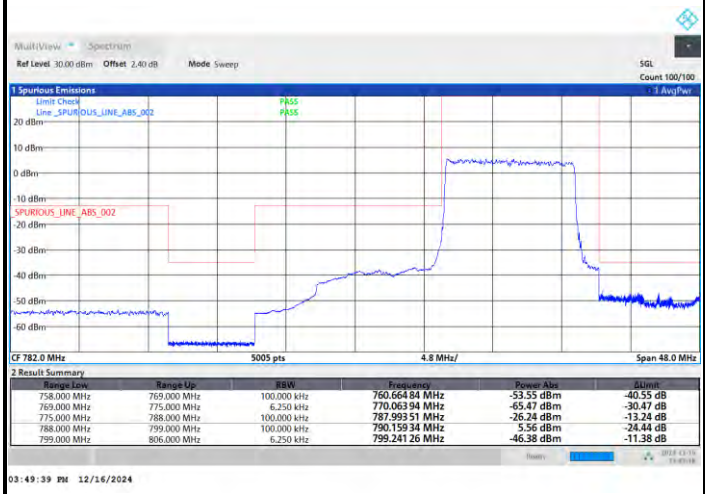
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	763.741 76 MHz	-53.24 dBm	-40.24 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.461 54 MHz	-65.40 dBm	-30.40 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.902 60 MHz	-45.64 dBm	-32.64 dB
788.000 MHz	799.000 MHz	100.000 kHz	796.697 80 MHz	4.52 dBm	-25.48 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.653 85 MHz	-51.82 dBm	-16.82 dB

FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

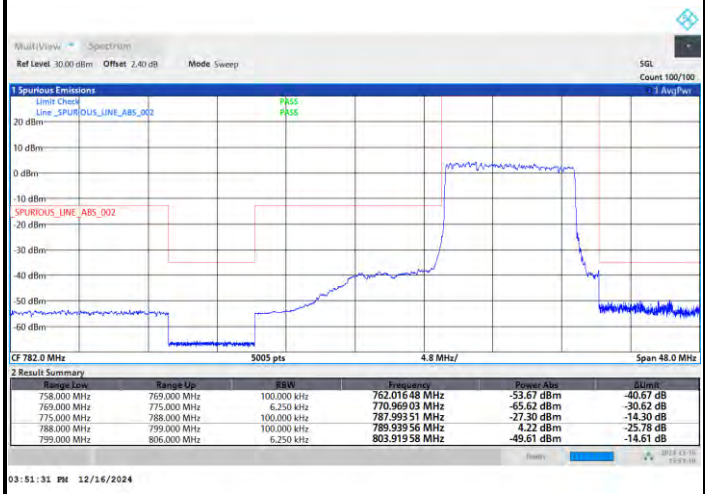
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.697 80 MHz	-53.51 dBm	-40.51 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.080 92 MHz	-65.42 dBm	-30.42 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-24.62 dBm	-11.62 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.972 53 MHz	4.52 dBm	-25.48 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.199 30 MHz	-59.40 dBm	-24.40 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	764.126 37 MHz	-53.44 dBm	-40.44 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.020 98 MHz	-65.61 dBm	-30.61 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.980 52 MHz	-45.18 dBm	-32.18 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.027 47 MHz	4.53 dBm	-25.47 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.073 43 MHz	-49.87 dBm	-14.87 dB

FR1 n14 / 10MHz / DFT-s-OFDM / PI/2 BPSK	
Middle Band Edge / Full RB	

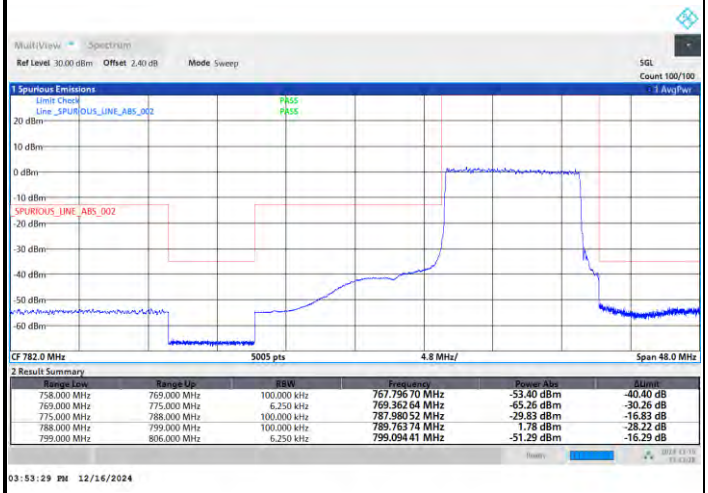
FR1 n14 / 10MHz / DFT-s-OFDM / QPSK	
Middle Band Edge / Full RB	
	

FR1 n14 / 10MHz / DFT-s-OFDM / 16QAM	
Middle Band Edge / Full RB	

FR1 n14 / 10MHz / DFT-s-OFDM / 64QAM	
Middle Band Edge / Full RB	
	

FR1 n14 / 10MHz / DFT-s-OFDM / 256QAM	
Middle Band Edge / Full RB	

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	766.895 60 MHz	-53.51 dBm	-40.51 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.936 06 MHz	-65.52 dBm	-30.52 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.993 51 MHz	-30.82 dBm	-17.82 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.631 87 MHz	1.85 dBm	-28.15 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.206 29 MHz	-53.60 dBm	-18.60 dB

FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB	
Middle Band Edge / Full RB	
	

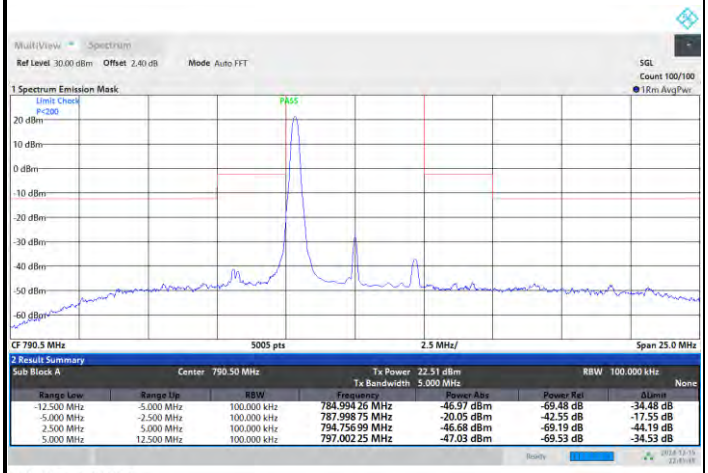
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	767.796 70 MHz	-53.40 dBm	-40.40 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.362 64 MHz	-65.26 dBm	-30.26 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.980 52 MHz	-29.83 dBm	-16.83 dB
788.000 MHz	799.000 MHz	100.000 kHz	789.763 74 MHz	1.78 dBm	-28.22 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.094 41 MHz	-51.29 dBm	-16.29 dB

Unwanted Emission (MASK)

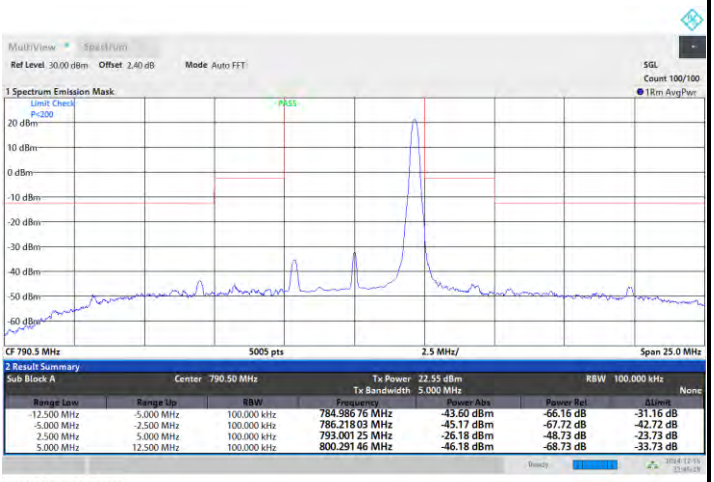
FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

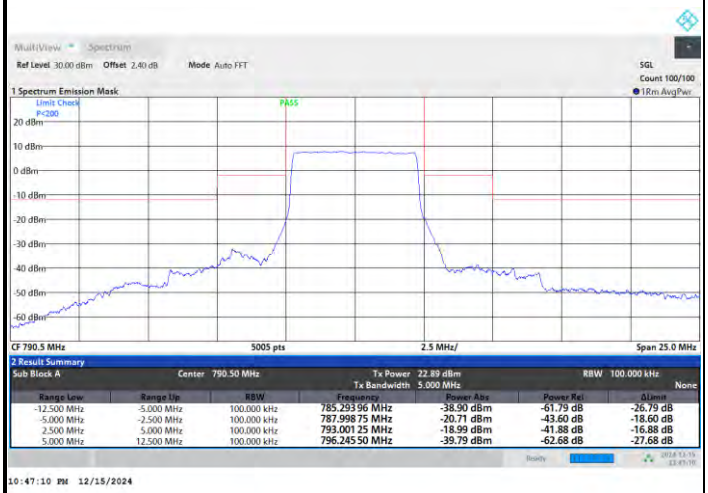
1RB0



1RBmax



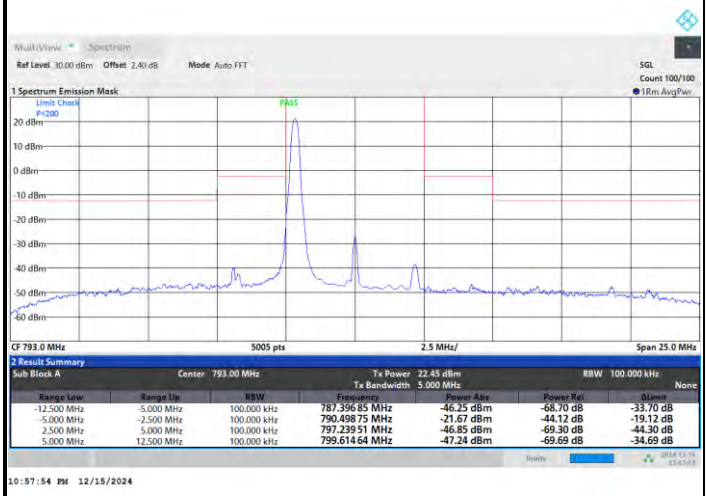
Full RB



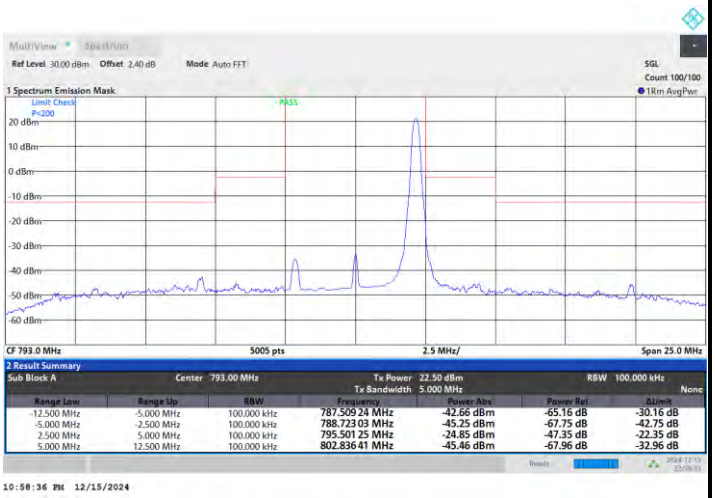
FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

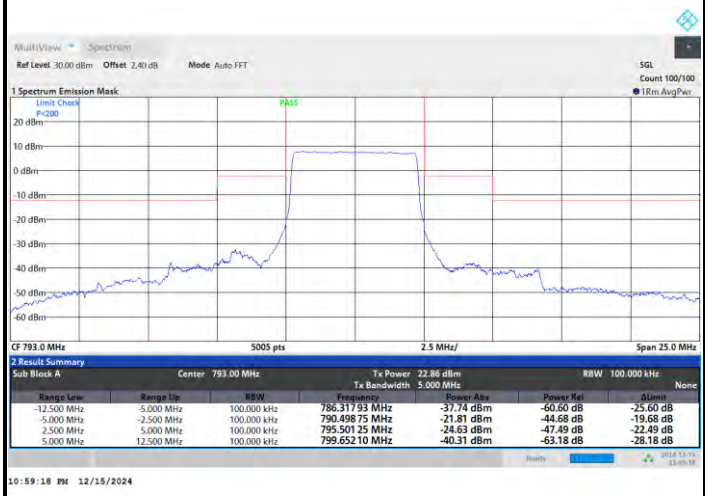
1RB0

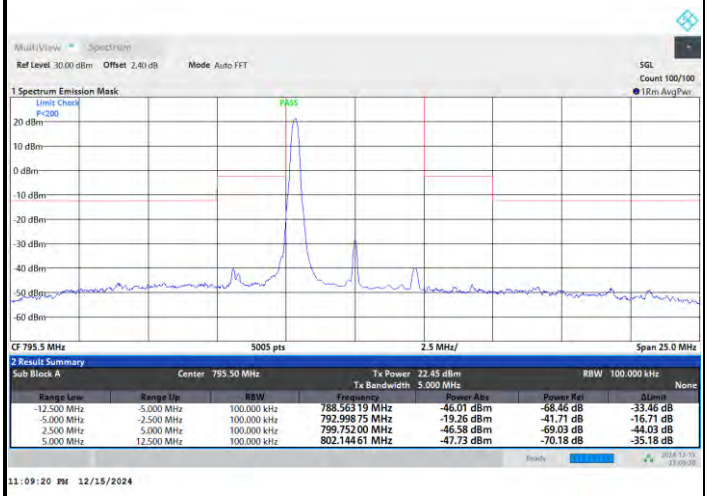
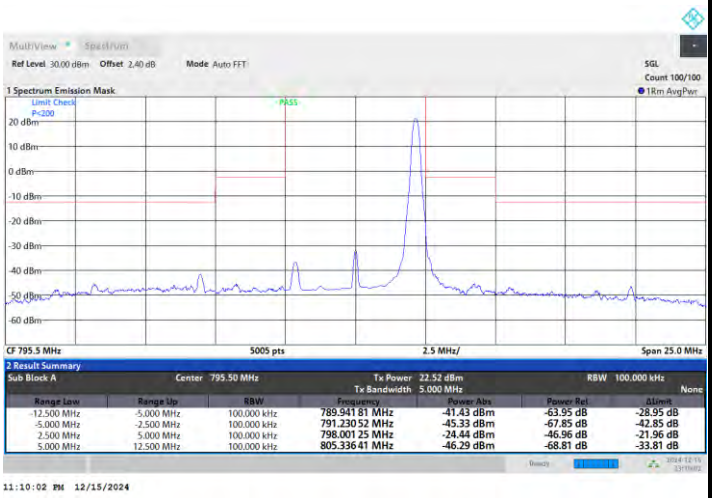
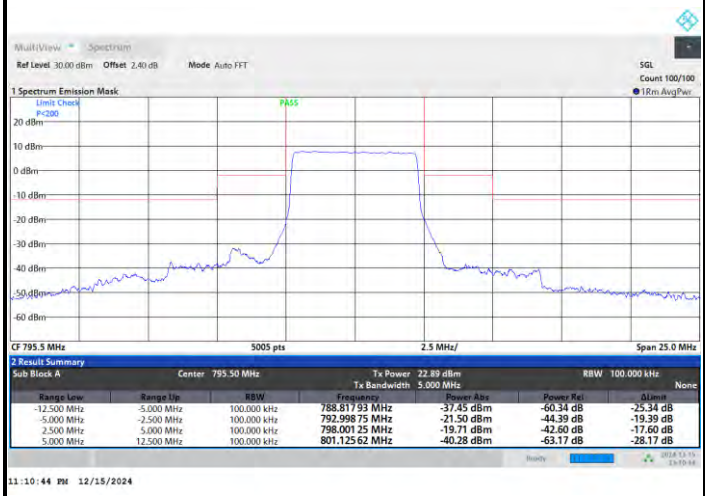


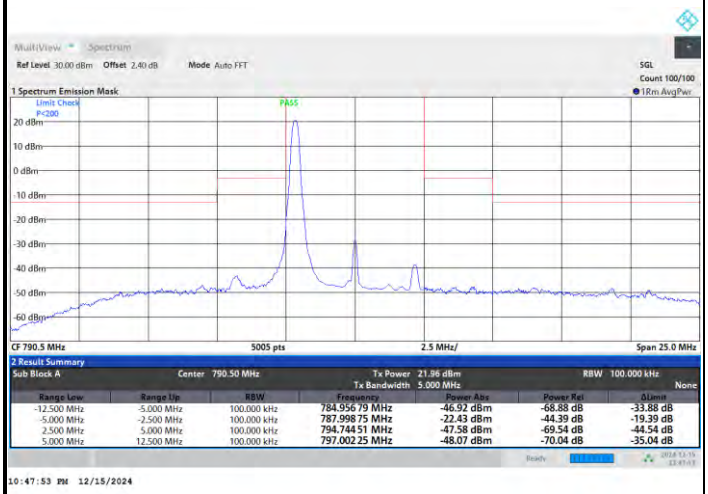
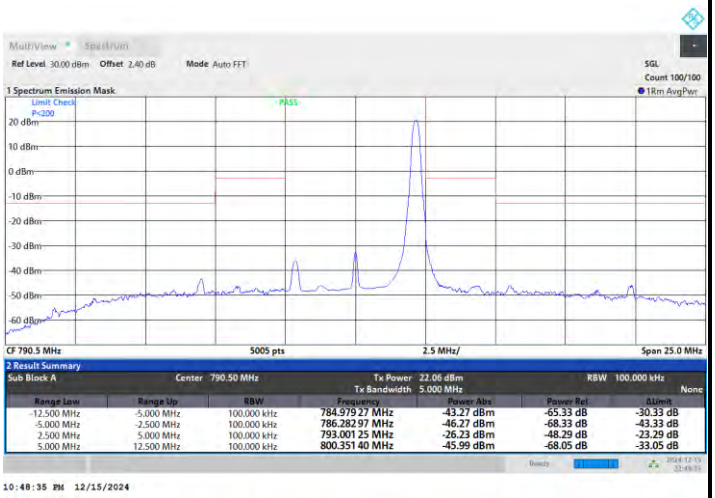
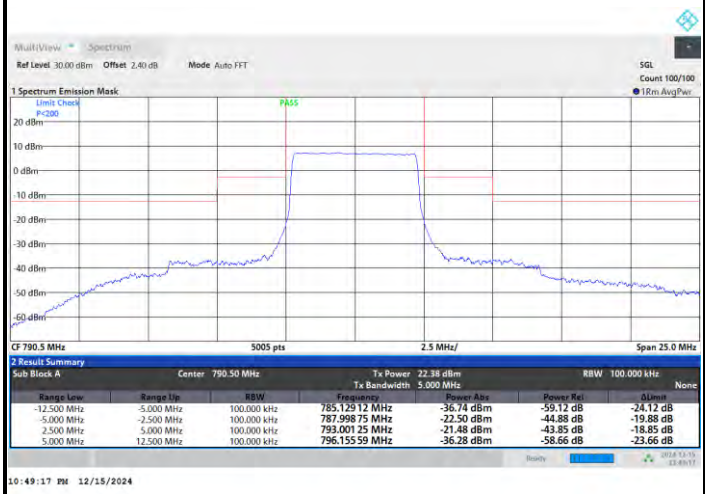
1RBmax



Full RB



FR1 n14 / 5MHz / DFT-S OFDM / PI/2 BPSK	
Highest Channel	
1RB0	1RBmax
	
Full RB	
	

FR1 n14 / 5MHz / DFT-S OFDM / QPSK	
Lowest Channel	
1RB0	1RBmax
	
Full RB	
	

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-12.500 MHz	-5.000 MHz	100.000 kHz	784.956 79 MHz	-46.92 dBm	-68.88 dB	-33.88 dB
-5.000 MHz	-2.500 MHz	100.000 kHz	787.998 75 MHz	-22.43 dBm	-44.39 dB	-19.39 dB
2.500 MHz	5.000 MHz	100.000 kHz	794.744 51 MHz	-47.58 dBm	-69.54 dB	-44.54 dB
5.000 MHz	12.500 MHz	100.000 kHz	797.002 25 MHz	-48.07 dBm	-70.04 dB	-35.04 dB

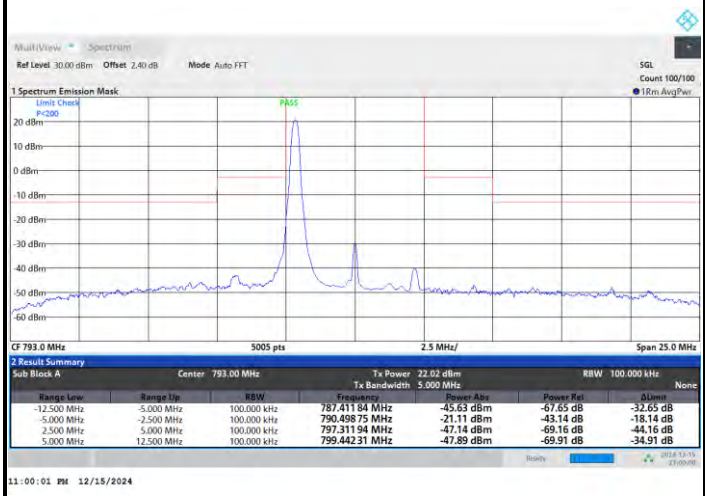
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-12.500 MHz	-5.000 MHz	100.000 kHz	784.979 27 MHz	-43.27 dBm	-65.33 dB	-30.33 dB
-5.000 MHz	-2.500 MHz	100.000 kHz	786.282 97 MHz	-46.27 dBm	-68.33 dB	-43.33 dB
2.500 MHz	5.000 MHz	100.000 kHz	793.001 25 MHz	-26.23 dBm	-48.29 dB	-23.29 dB
5.000 MHz	12.500 MHz	100.000 kHz	800.351 40 MHz	-45.99 dBm	-68.05 dB	-33.05 dB

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-12.500 MHz	-5.000 MHz	100.000 kHz	785.129 12 MHz	-36.74 dBm	-59.12 dB	-24.12 dB
-5.000 MHz	-2.500 MHz	100.000 kHz	787.998 75 MHz	-22.50 dBm	-44.88 dB	-19.88 dB
2.500 MHz	5.000 MHz	100.000 kHz	793.001 25 MHz	-21.48 dBm	-43.85 dB	-18.85 dB
5.000 MHz	12.500 MHz	100.000 kHz	796.155 59 MHz	-36.28 dBm	-58.66 dB	-23.66 dB

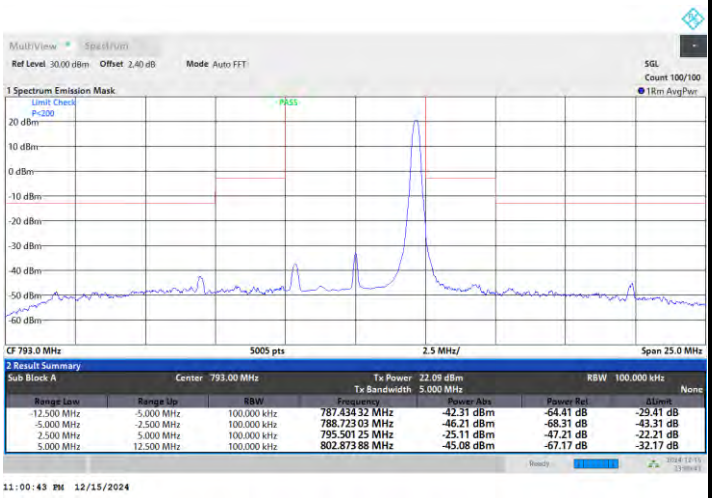
FR1 n14 / 5MHz / DFT-S OFDM / QPSK

Middle Channel

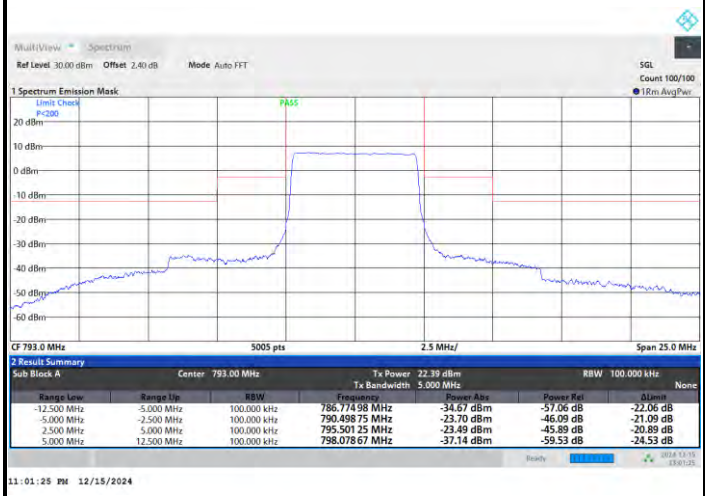
1RB0



1RBmax



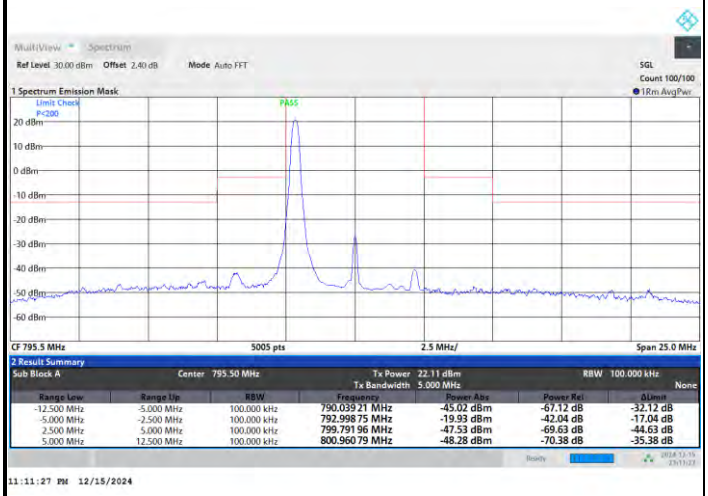
Full RB



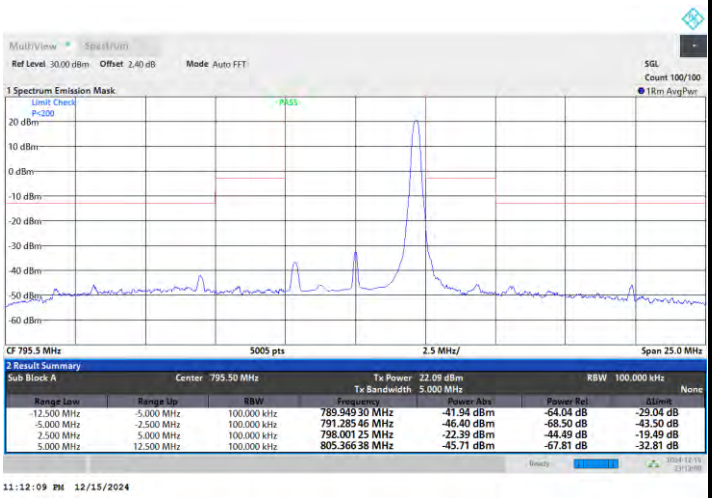
FR1 n14 / 5MHz / DFT-S OFDM / QPSK

Highest Channel

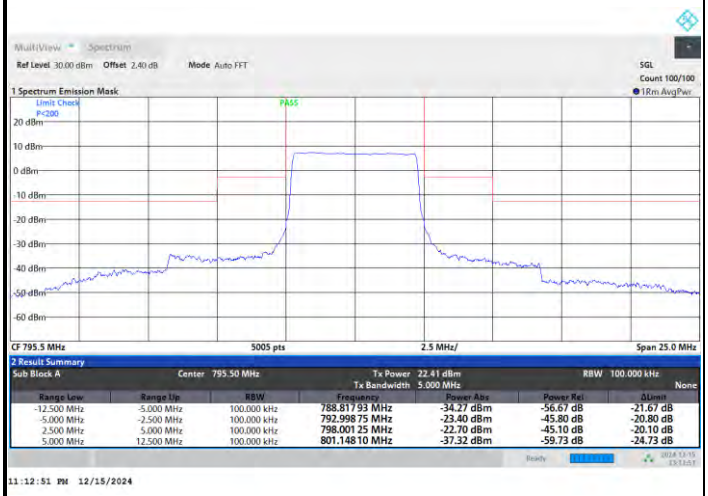
1RB0



1RBmax



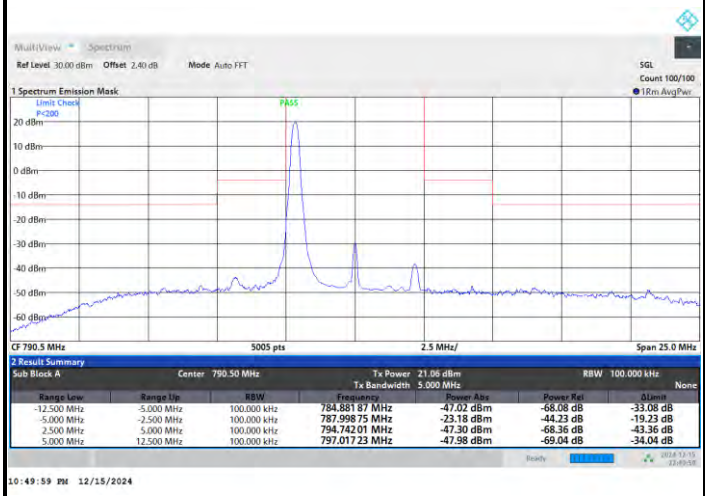
Full RB



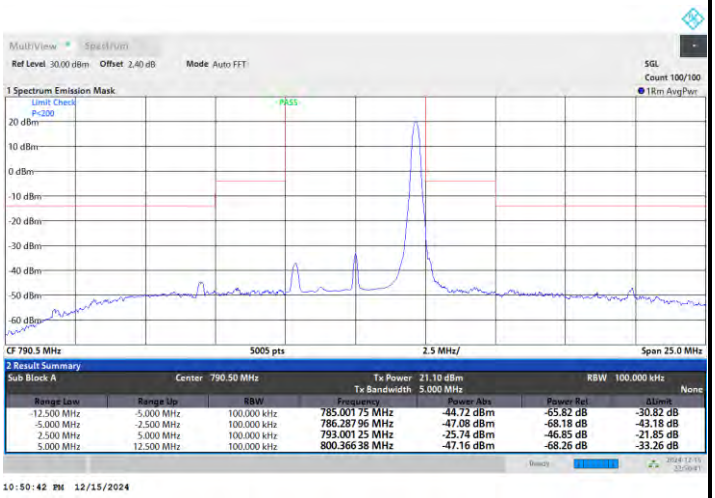
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

Lowest Channel

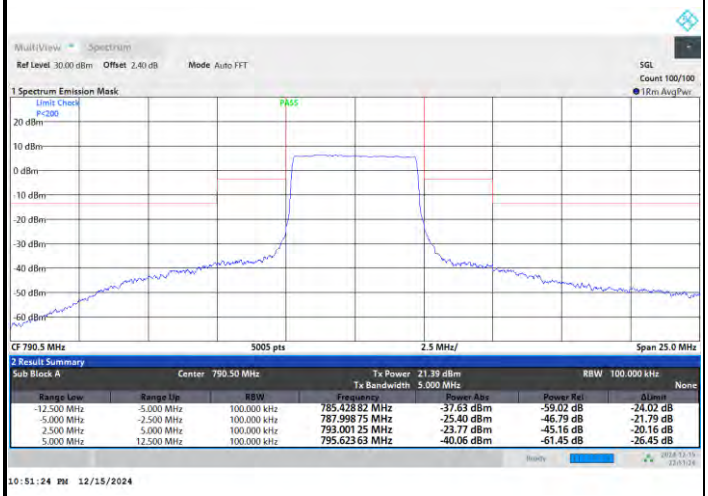
1RB0

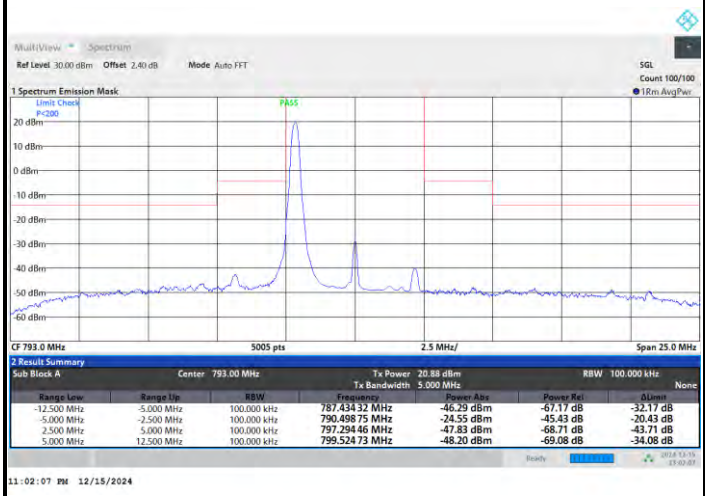
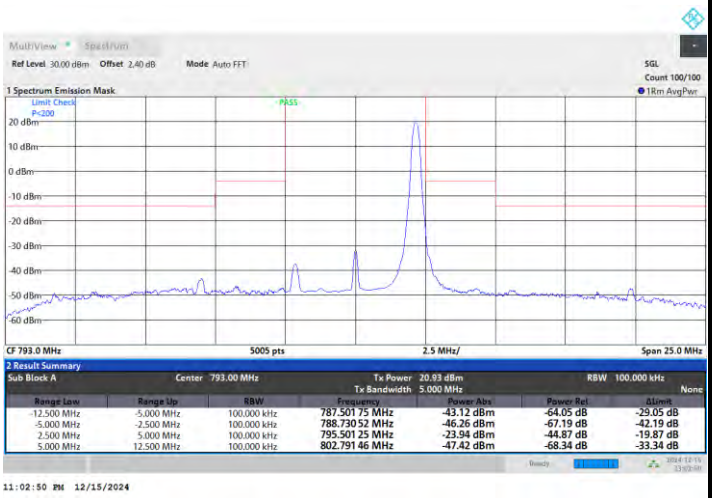
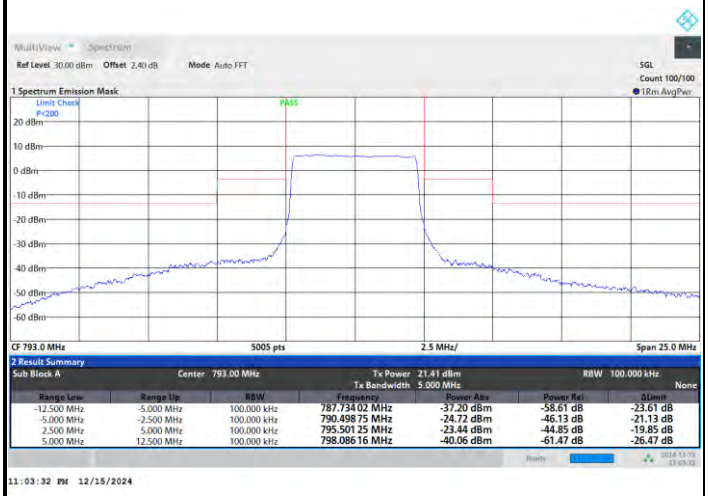


1RBmax



Full RB

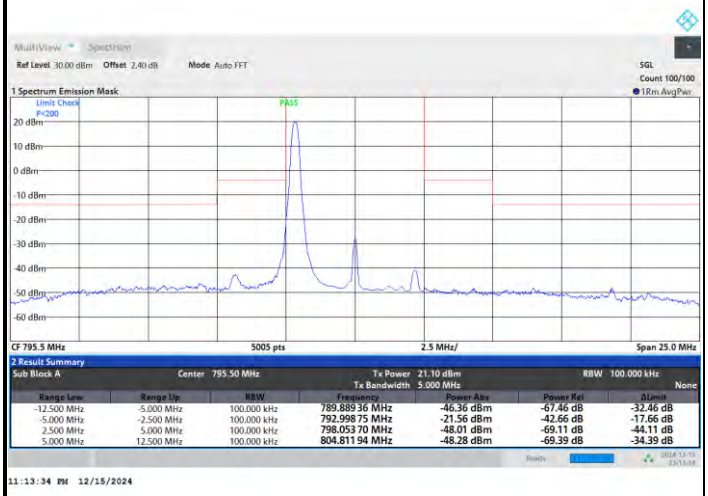


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM	
Middle Channel	
1RB0	1RBmax
	
Full RB	
	

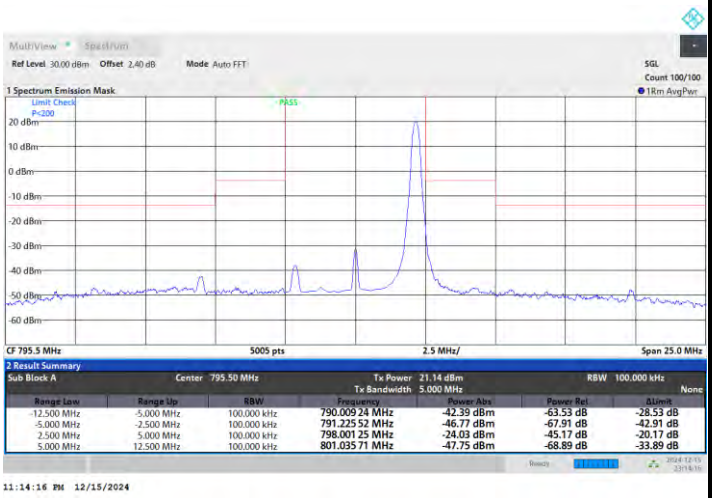
FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

Highest Channel

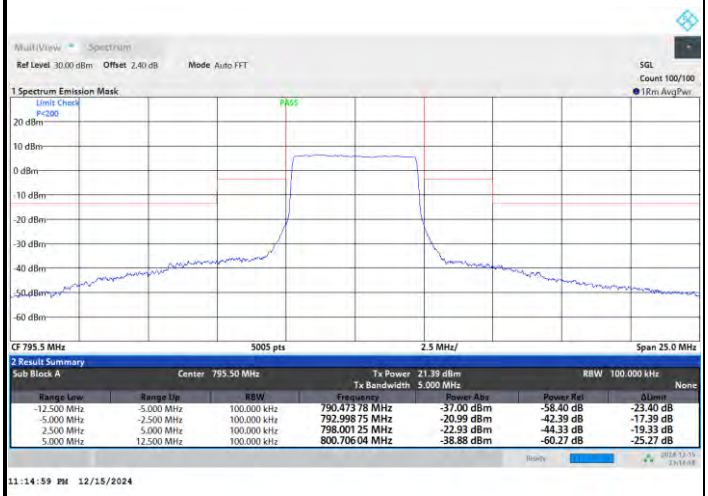
1RB0

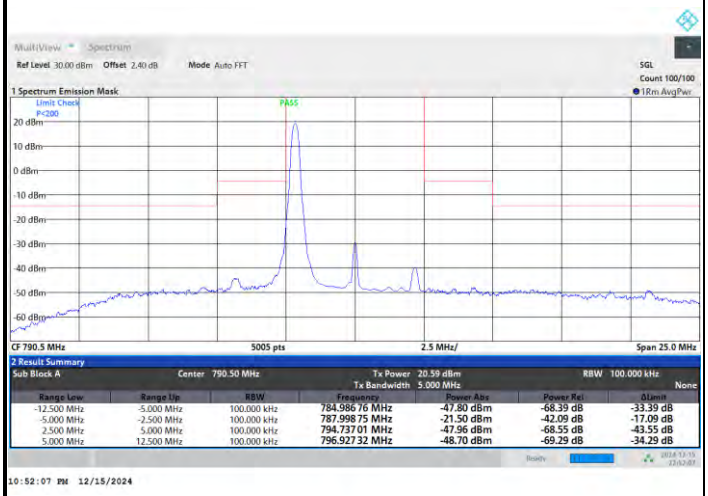
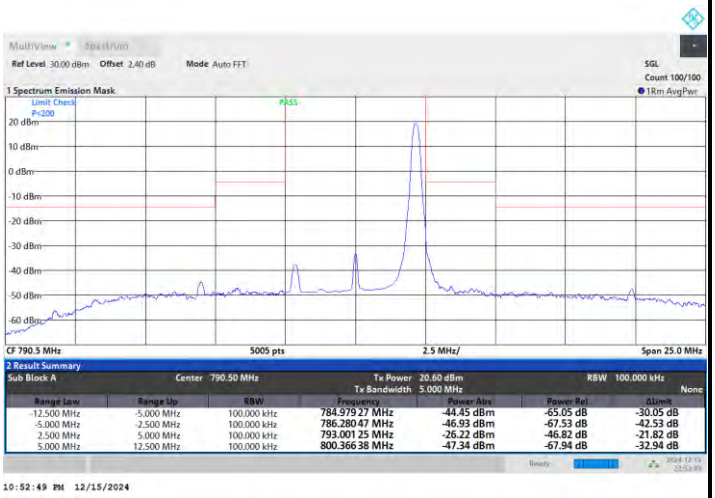
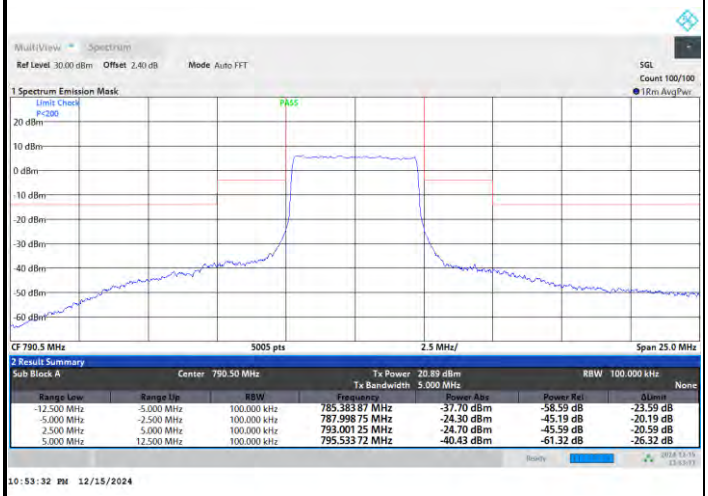


1RBmax



Full RB

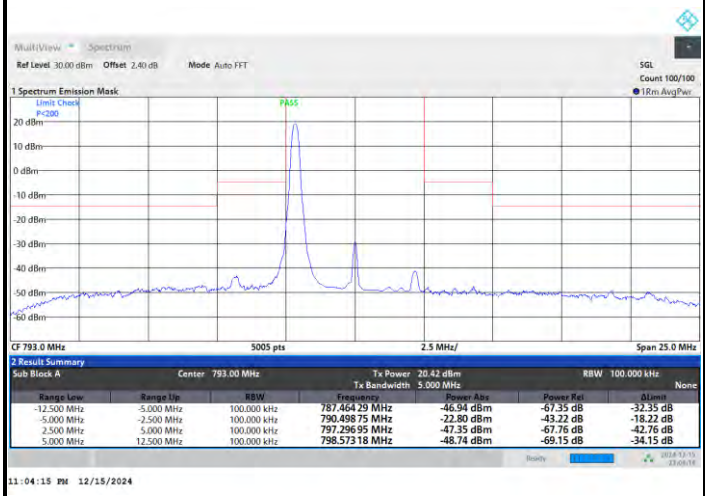


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
1RB0	1RBmax
	
Full RB	
	

FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

Middle Channel

1RB0



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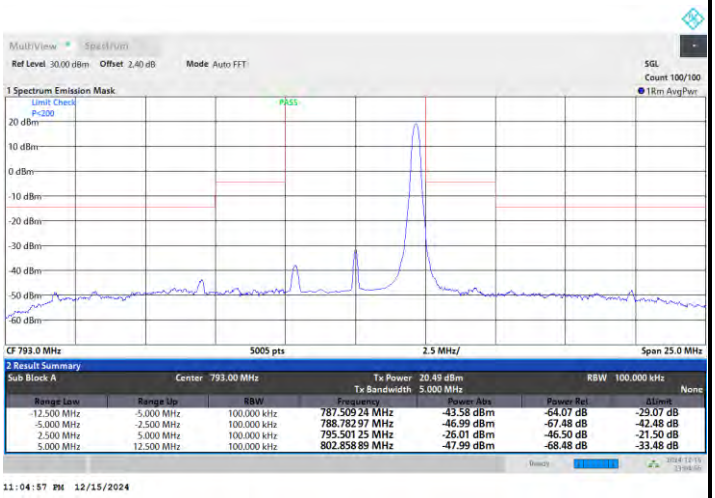
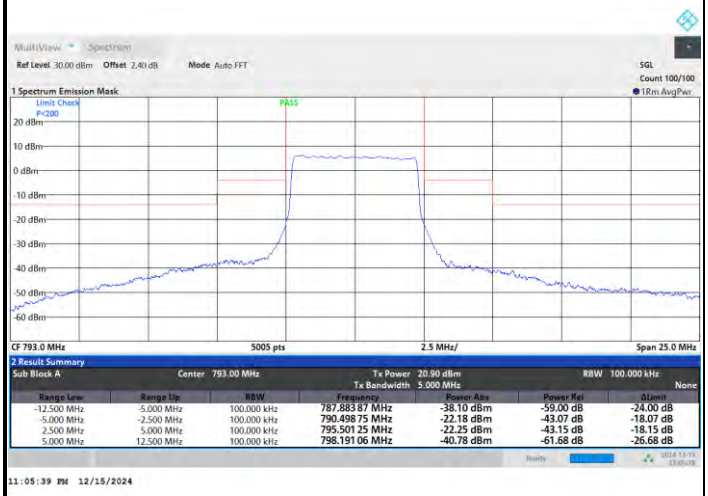


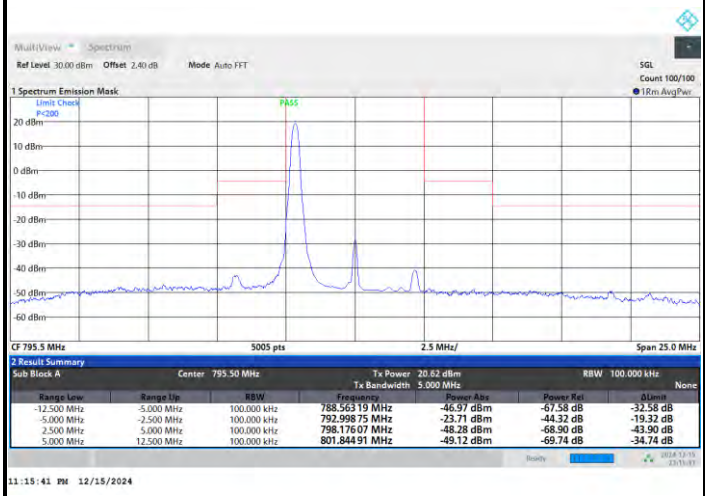
Full RB



FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

Highest Channel

1RB0



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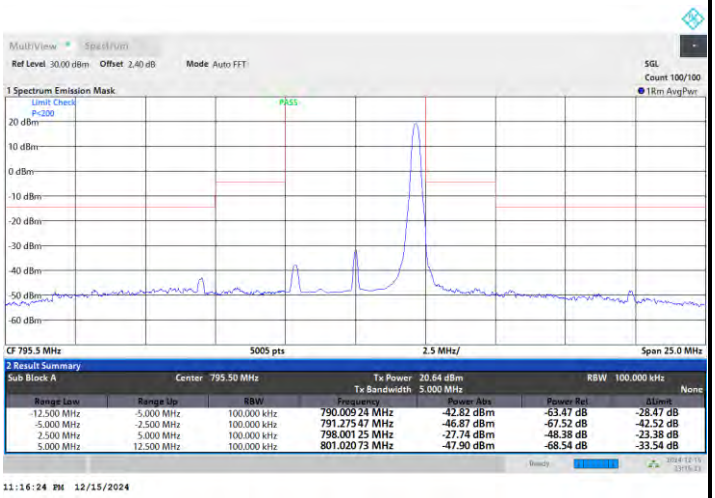
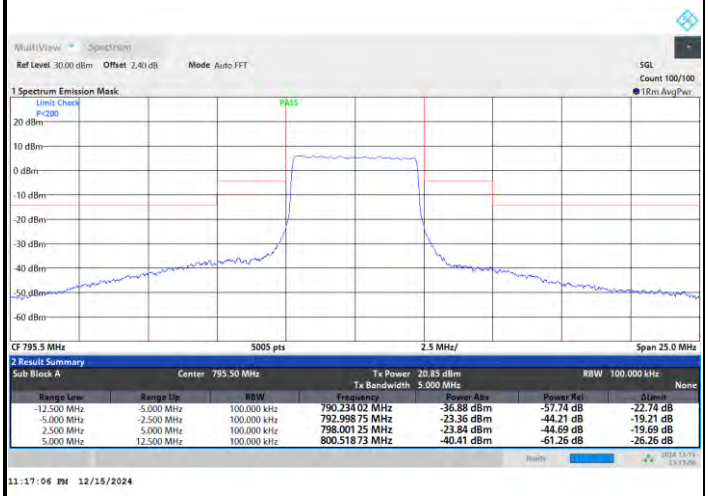


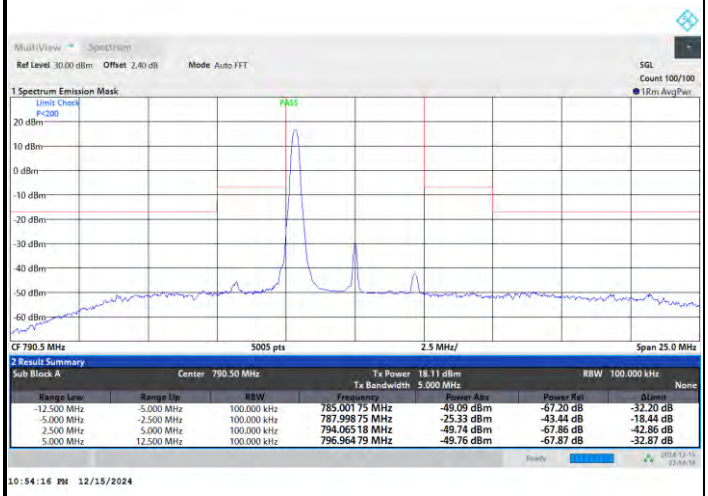
Full RB



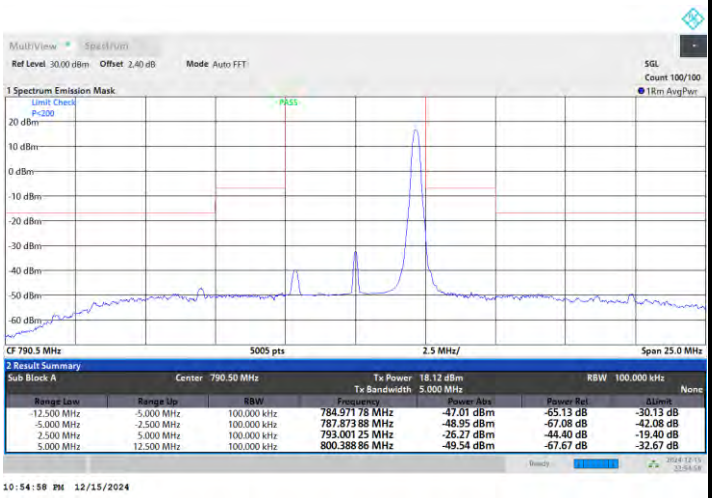
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Lowest Channel

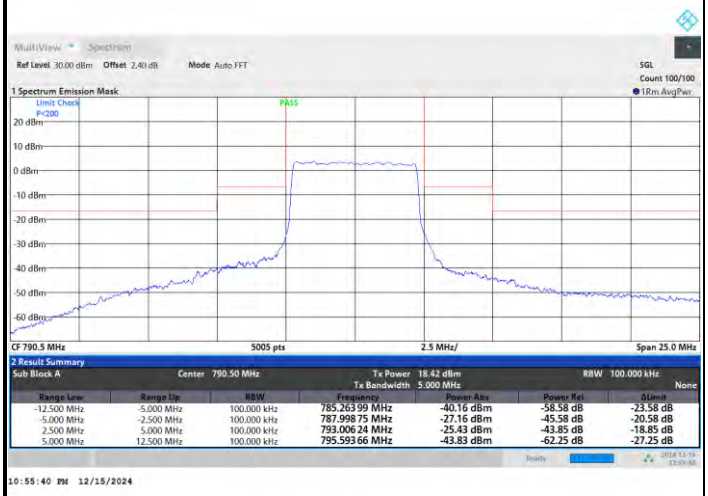
1RB0



1RBmax



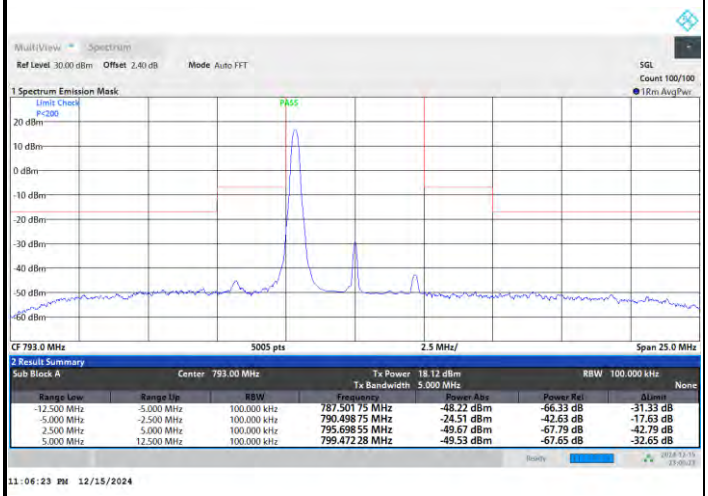
Full RB



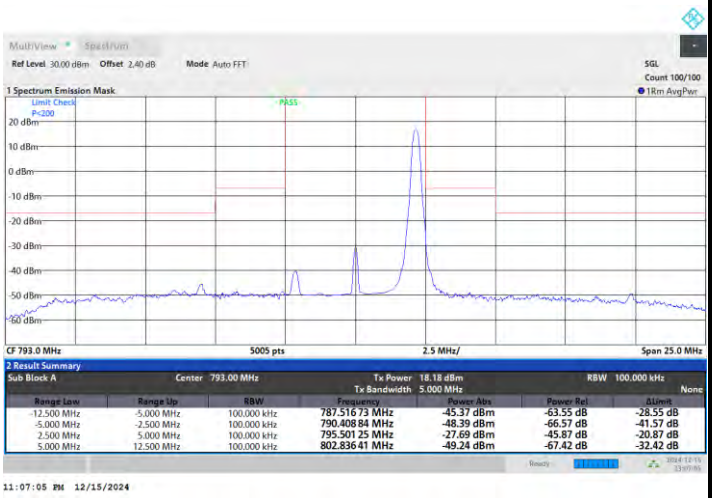
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Middle Channel

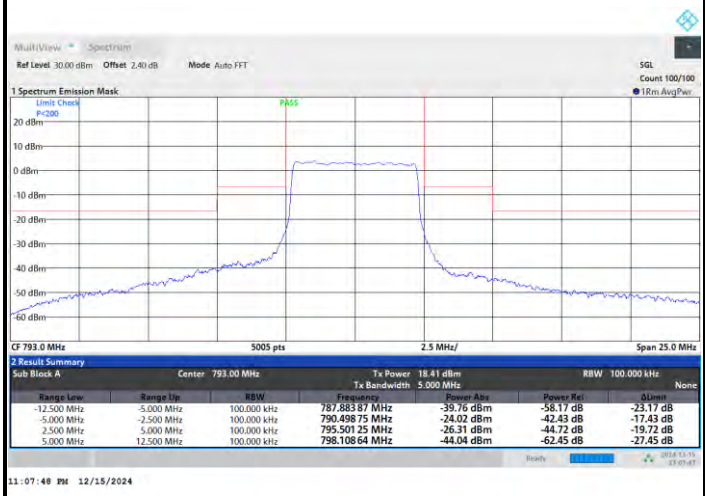
1RB0



1RBmax



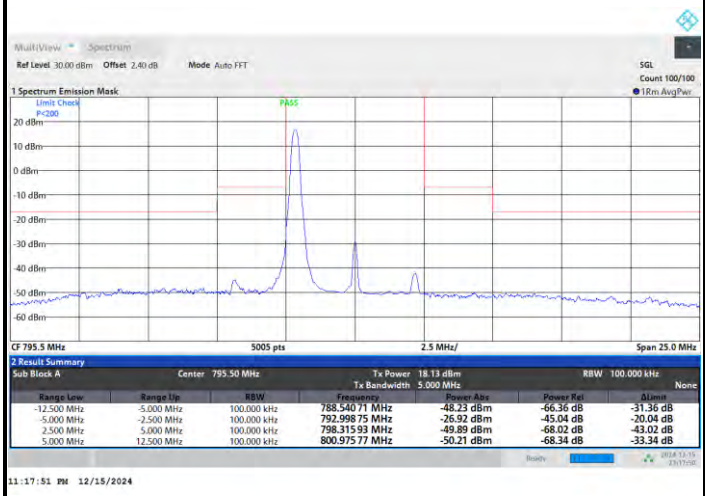
Full RB



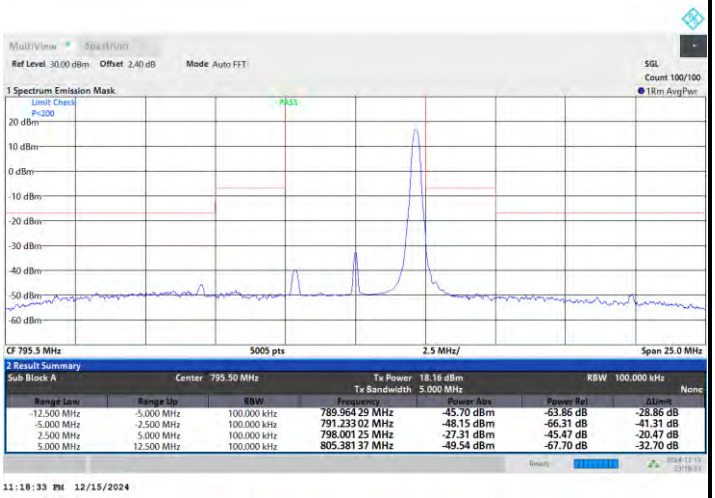
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Highest Channel

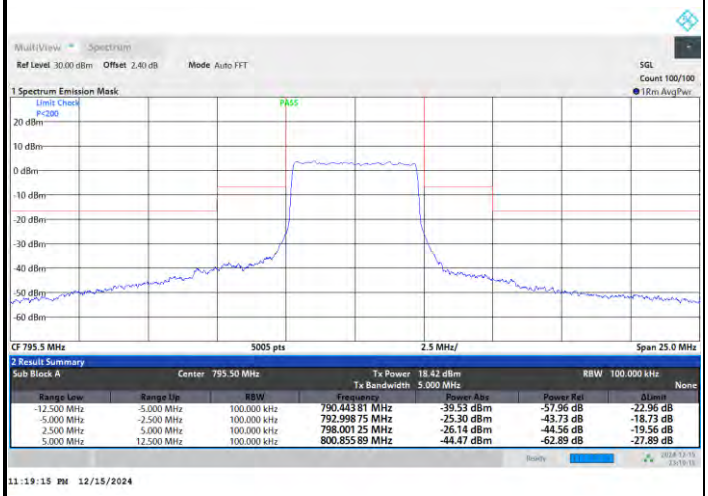
1RB0

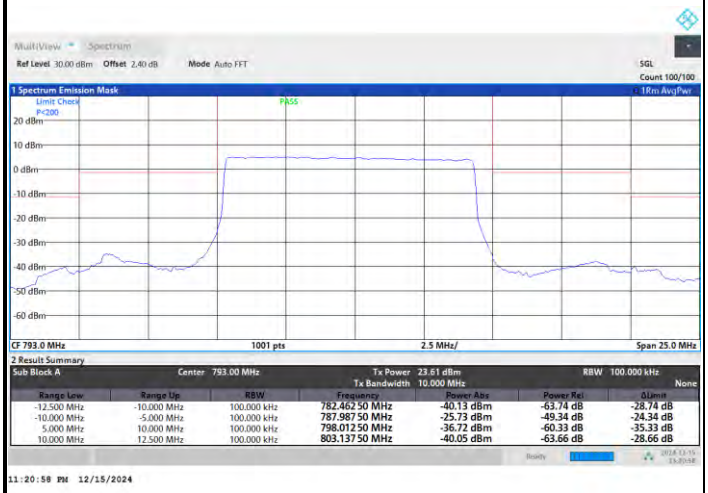


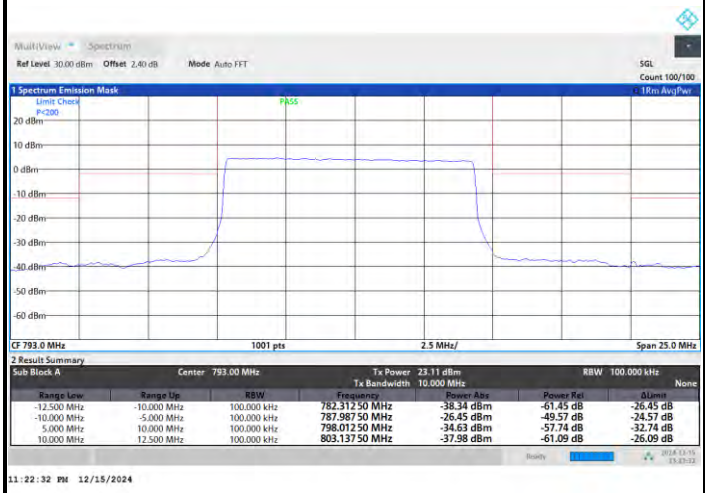
1RBmax

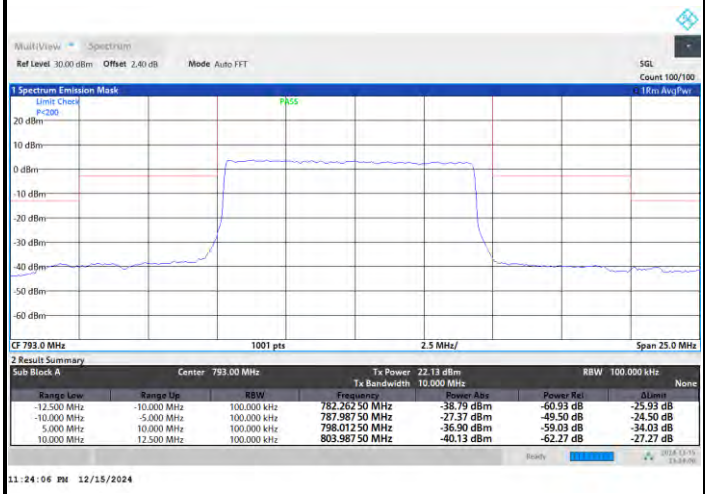


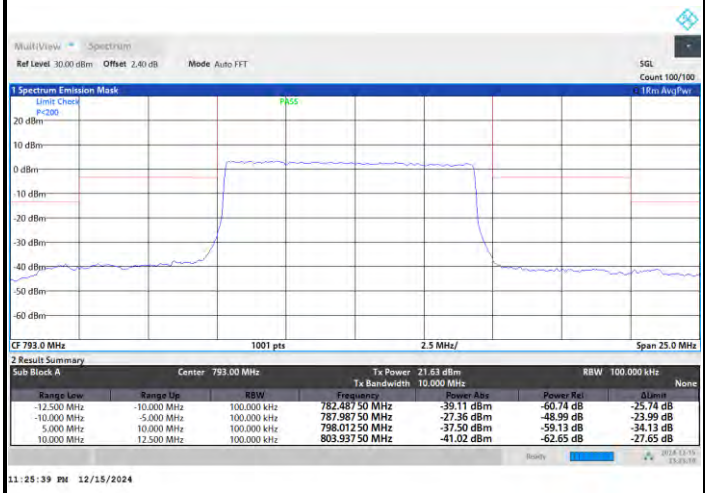
Full RB

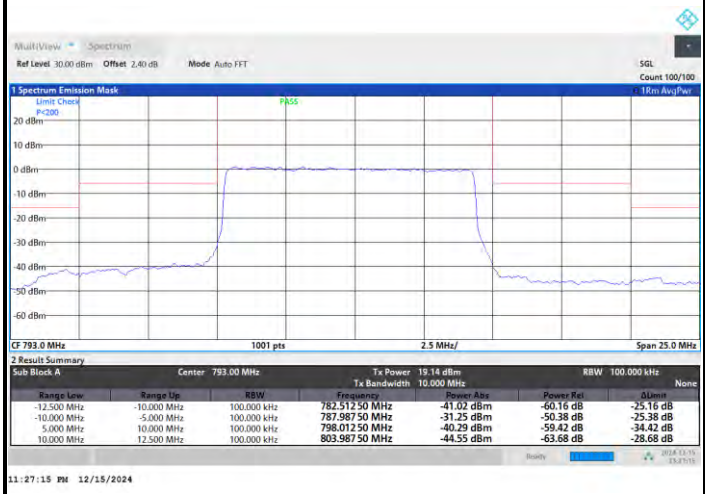


FR1 n14 / 10MHz / DFT-S OFDM / BPSK	
Middle Channel	
Full RB	
	

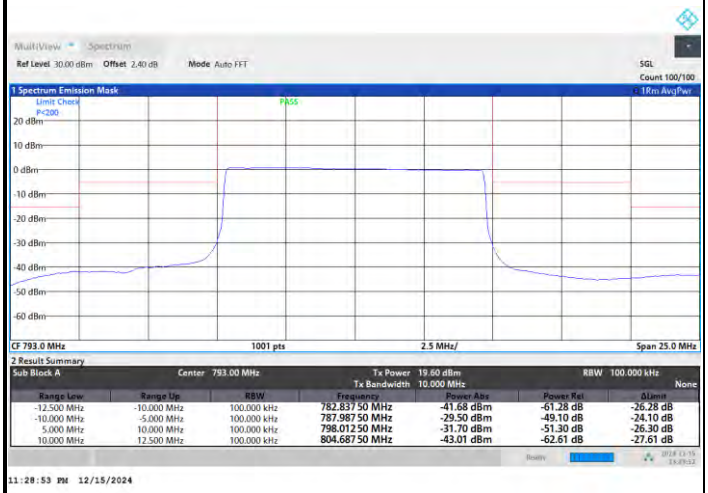
FR1 n14 / 10MHz / DFT-S OFDM / QPSK	
Middle Channel	
Full RB	
	

FR1 n14 / 10MHz / DFT-S OFDM / 16QAM	
Middle Channel	
Full RB	
	

FR1 n14 / 10MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	
	

FR1 n14 / 10MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	
	

FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB	
Highest Channel	

FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB	
Middle Channel	
	

Conducted Spurious Emission

FR1 n14 / 5MHz / DFT-S OFDM / QPSK / 1RB1	
Lowest Channel	**Middle Channel**
Highest Channel	

Lowest Channel

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	34.537 56 MHz	-57.41 dBm	-44.41 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.365 53 MHz	-55.68 dBm	-42.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.785 80 GHz	-46.88 dBm	-33.88 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.494 80 GHz	-40.82 dBm	-27.82 dB

Middle Channel

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	34.780 21 MHz	-57.22 dBm	-44.22 dB
805.000 MHz	1.000 GHz	100.000 kHz	806.389 03 MHz	-50.46 dBm	-37.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.981 75 GHz	-46.41 dBm	-33.41 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.490 80 GHz	-41.03 dBm	-28.03 dB

Highest Channel

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	36.527 30 MHz	-57.12 dBm	-44.12 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.024 37 MHz	-48.55 dBm	-35.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.969 76 GHz	-46.72 dBm	-33.72 dB
3.000 GHz	8.000 GHz	1.000 MHz	7.497 30 GHz	-40.94 dBm	-27.94 dB

Frequency Stability

Test Conditions		FR1 n14 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0066	PASS
40	Normal Voltage	0.0172	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0111	
0	Normal Voltage	0.0113	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0149	
-30	Normal Voltage	0.0245	
20	Maximum Voltage	0.0206	
20	Normal Voltage	0.0132	
20	Minimum Voltage	0.0197	

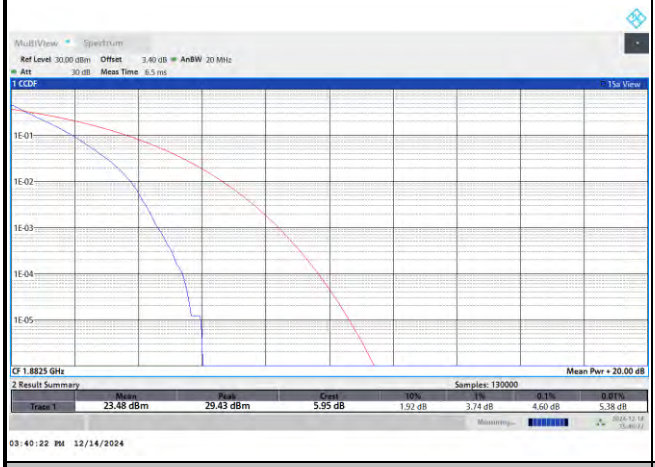
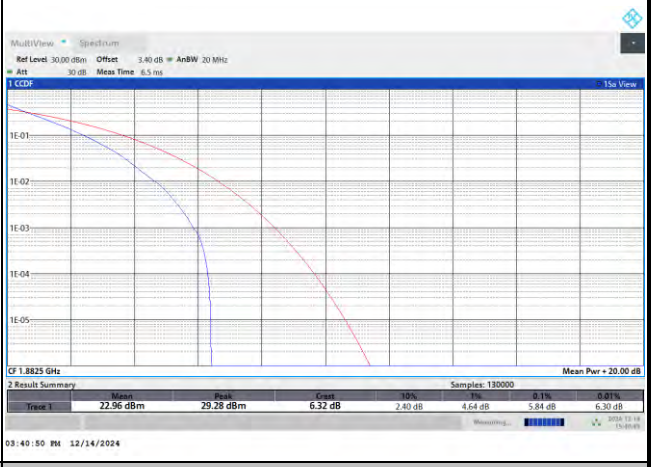
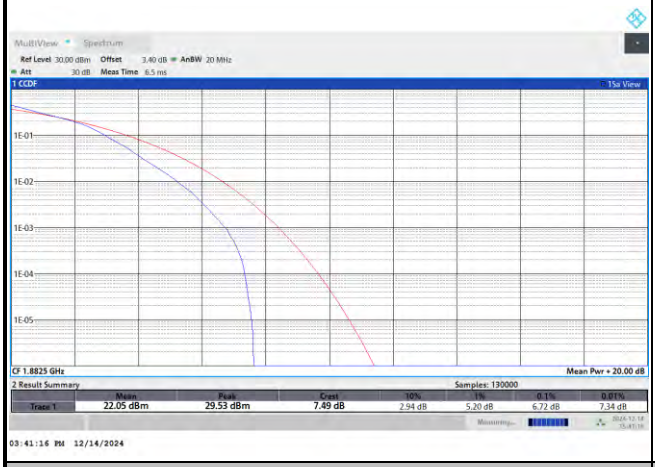
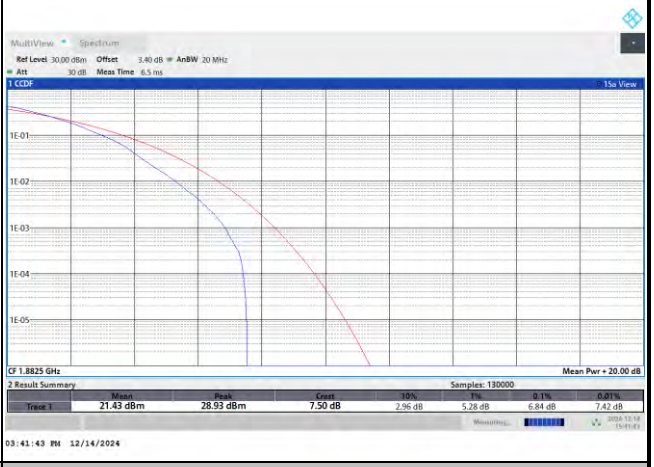
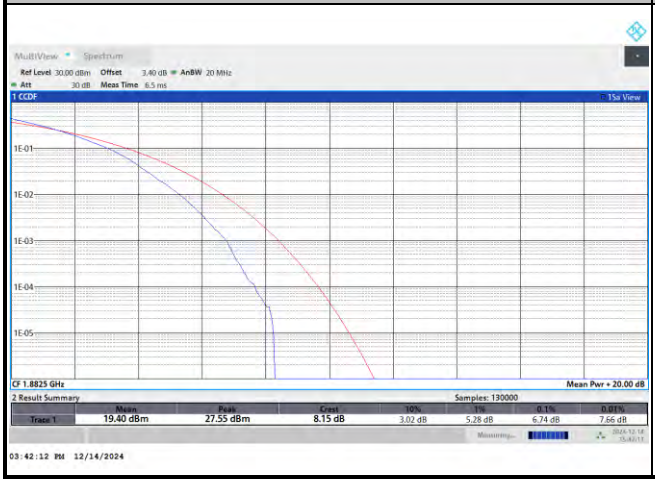
Note:

1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n25

Peak-to-Average Ratio

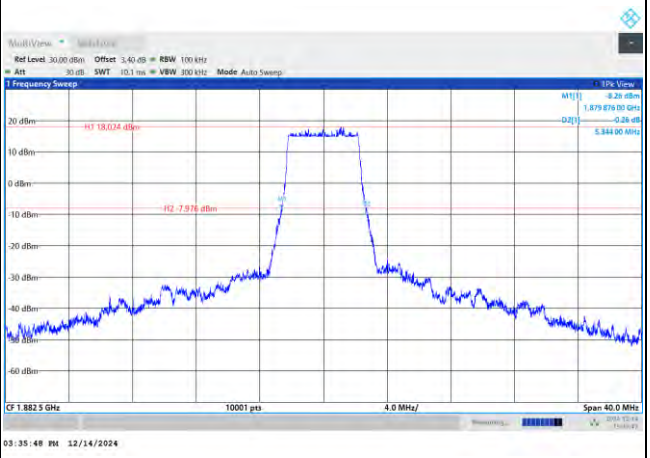
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.60	5.84	6.72	6.84	PASS
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.74				PASS

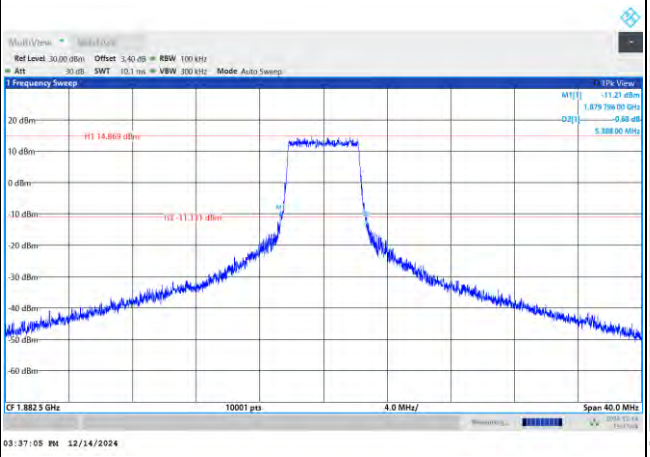
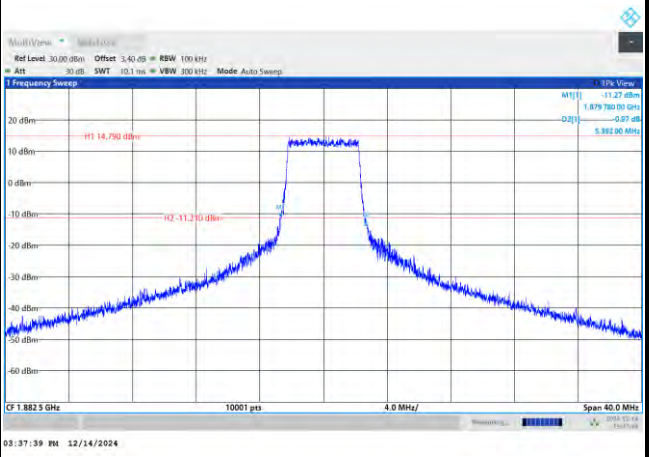
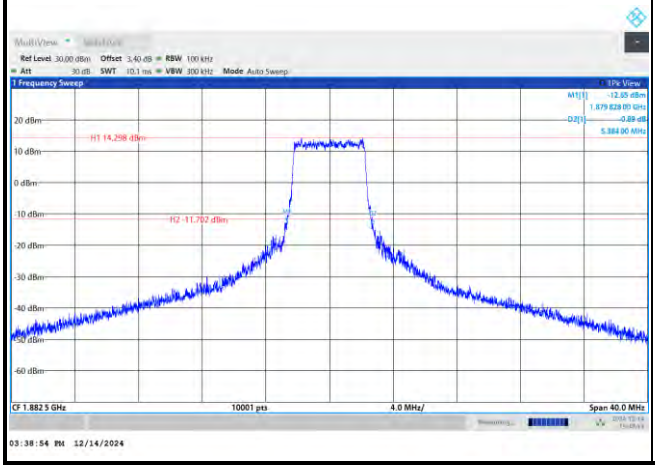
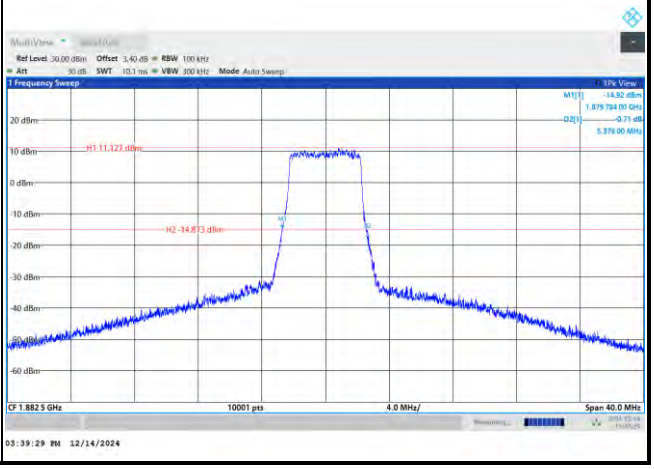
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	64QAM
	
256QAM	
	

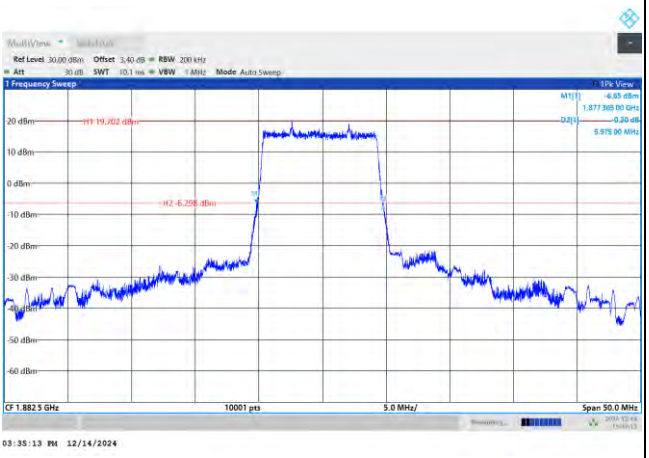
26dB Bandwidth

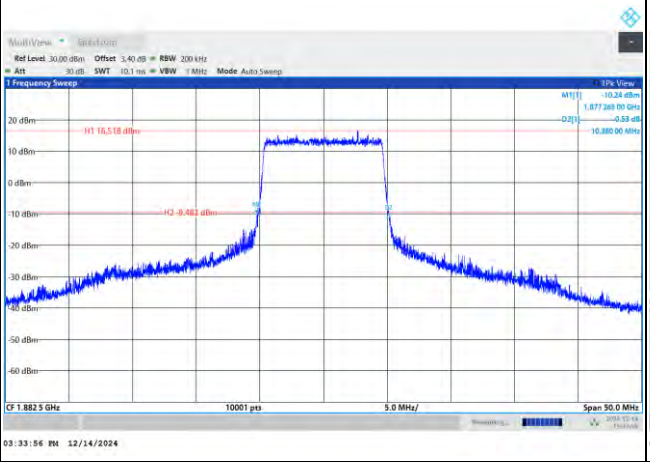
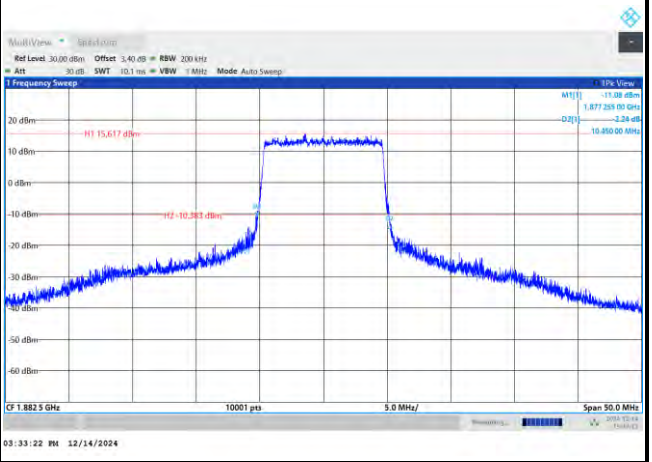
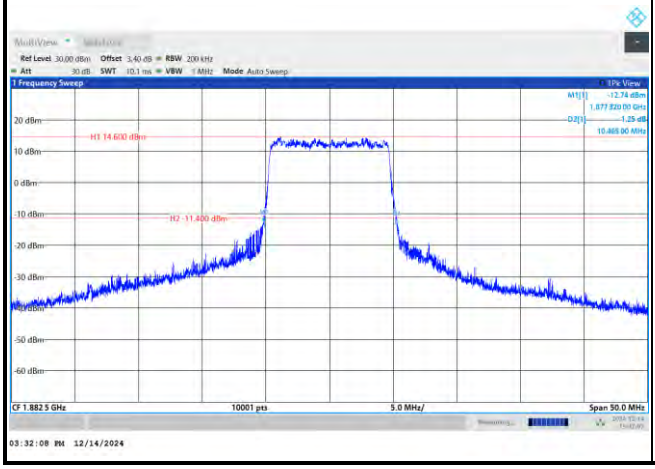
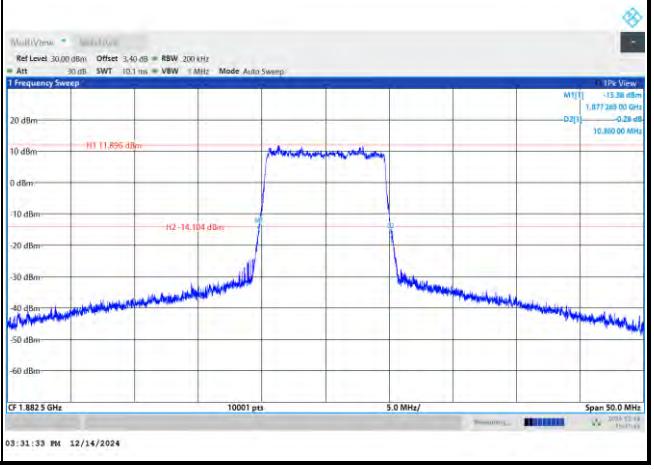
Mode	FR1 n25 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	5.34		9.97		14.71		19.49	
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	25.08		33.48		36.61		43.20	

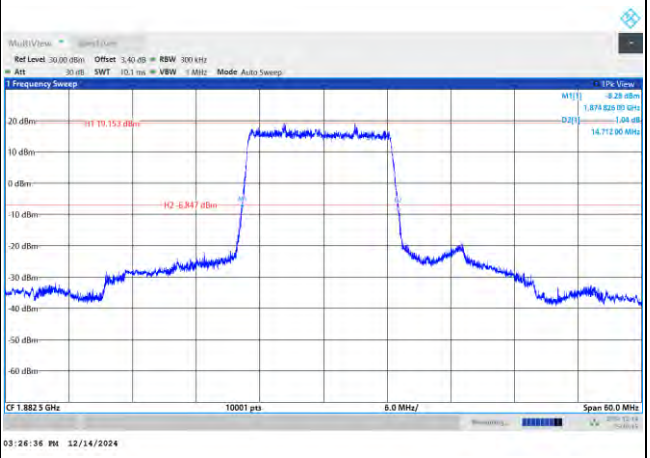
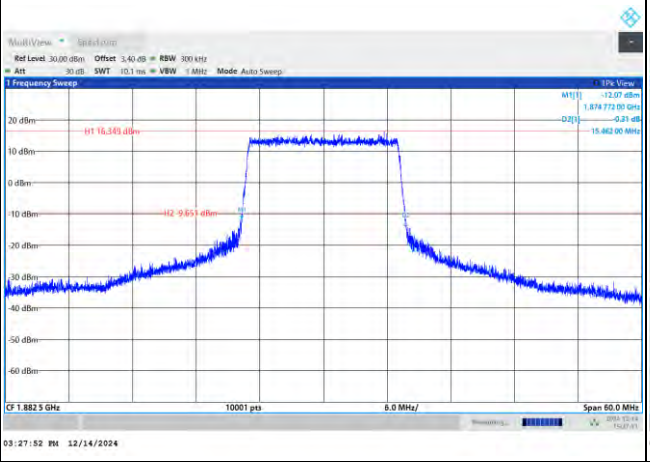
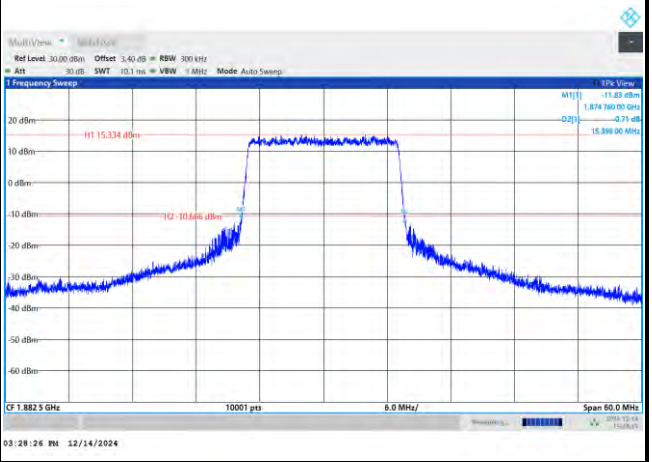
Mode	FR1 n25 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.38	5.39	10.38	10.45	15.46	15.39	21.29	21.44
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.38	5.37	10.46	10.36	15.51	15.43	21.33	21.32
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	26.24	26.05	33.20	33.39	38.66	38.21	43.02	43.35
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	26.32	26.17	32.98	33.21	38.34	38.26	43.07	43.36

FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	
FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
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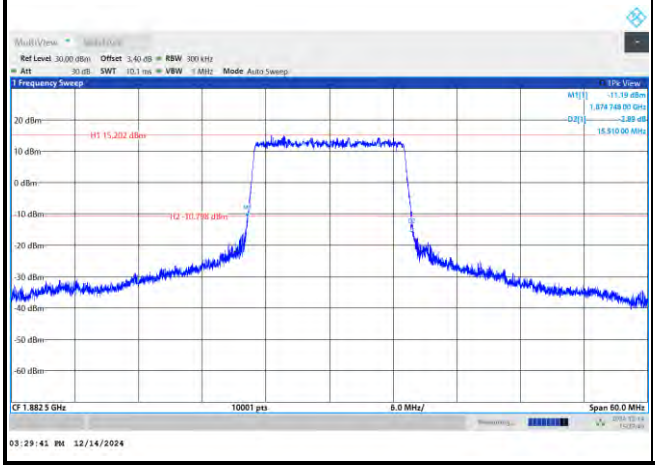	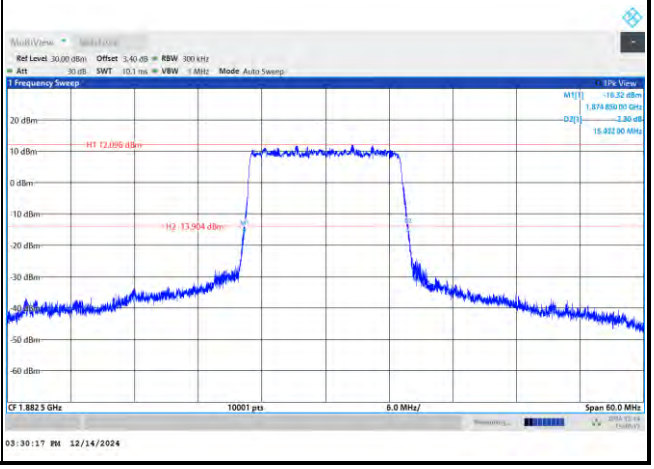

FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
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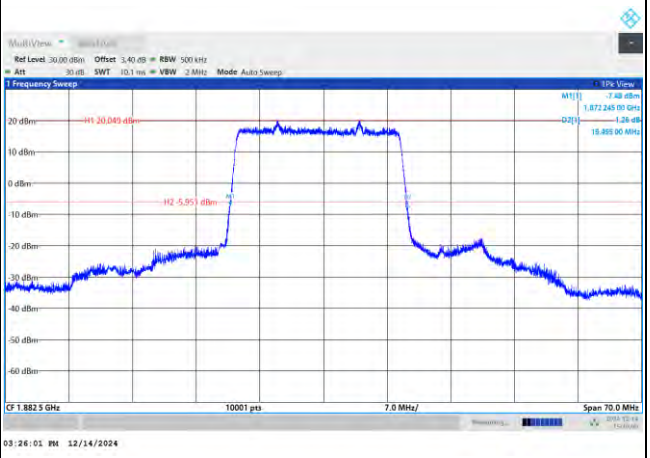	

FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB	
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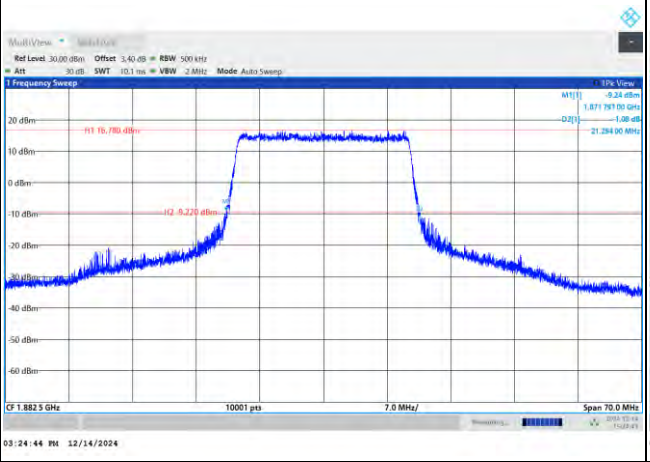
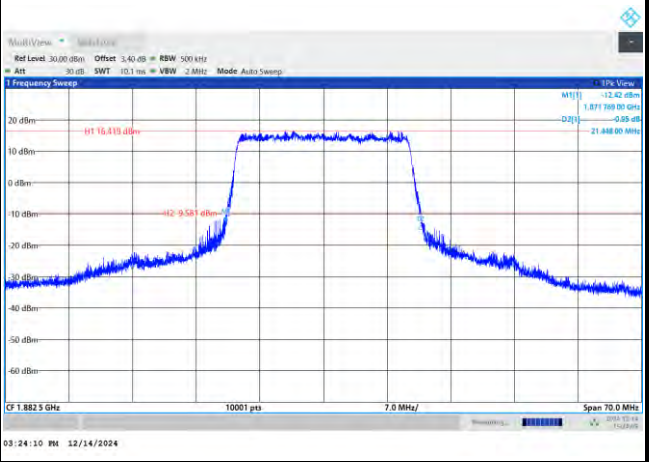
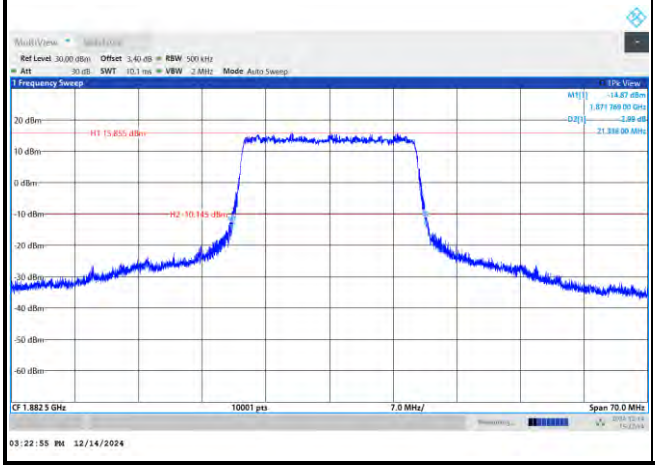
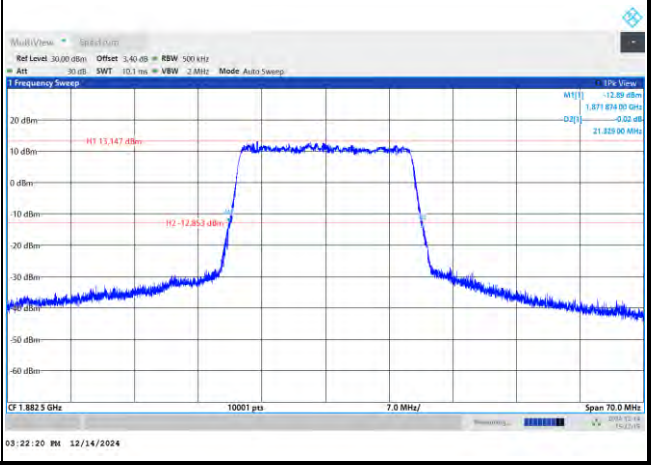
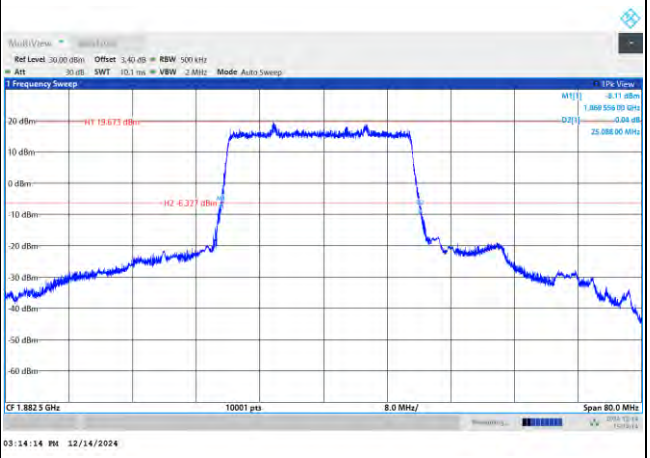
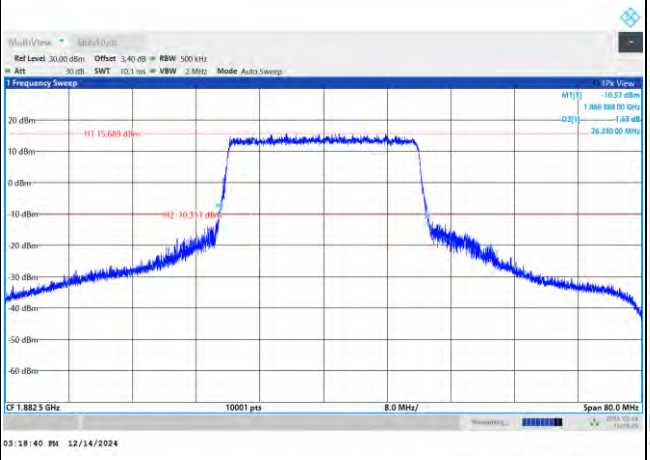
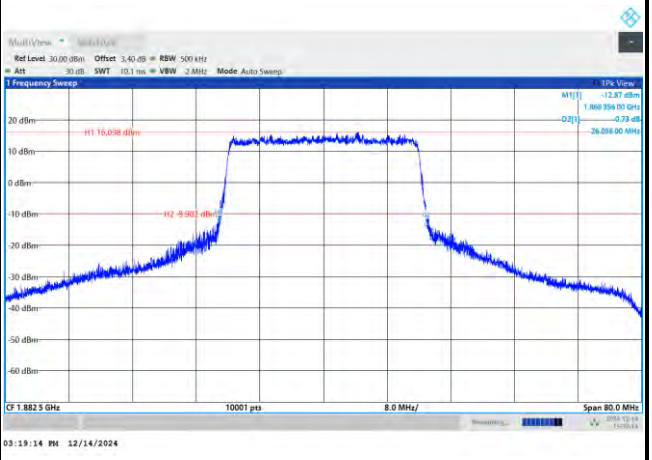
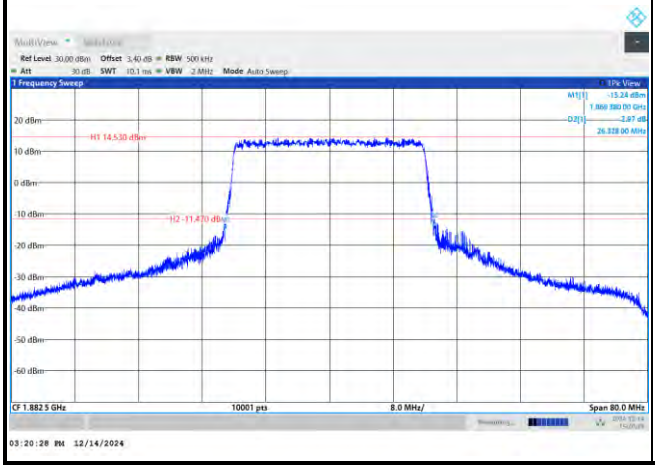
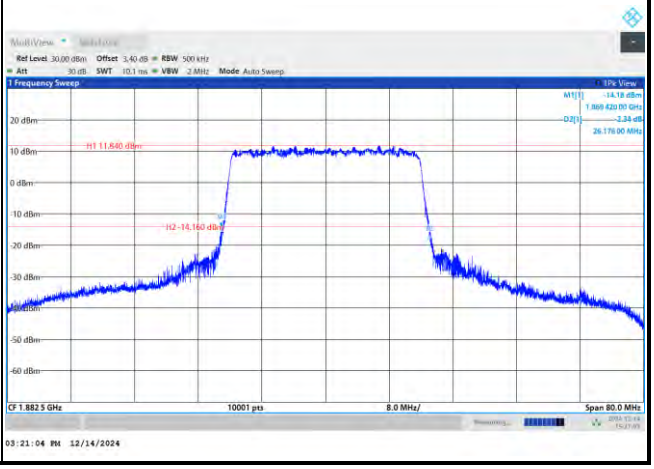
	
64QAM	256QAM
	

FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n25 / 25MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM