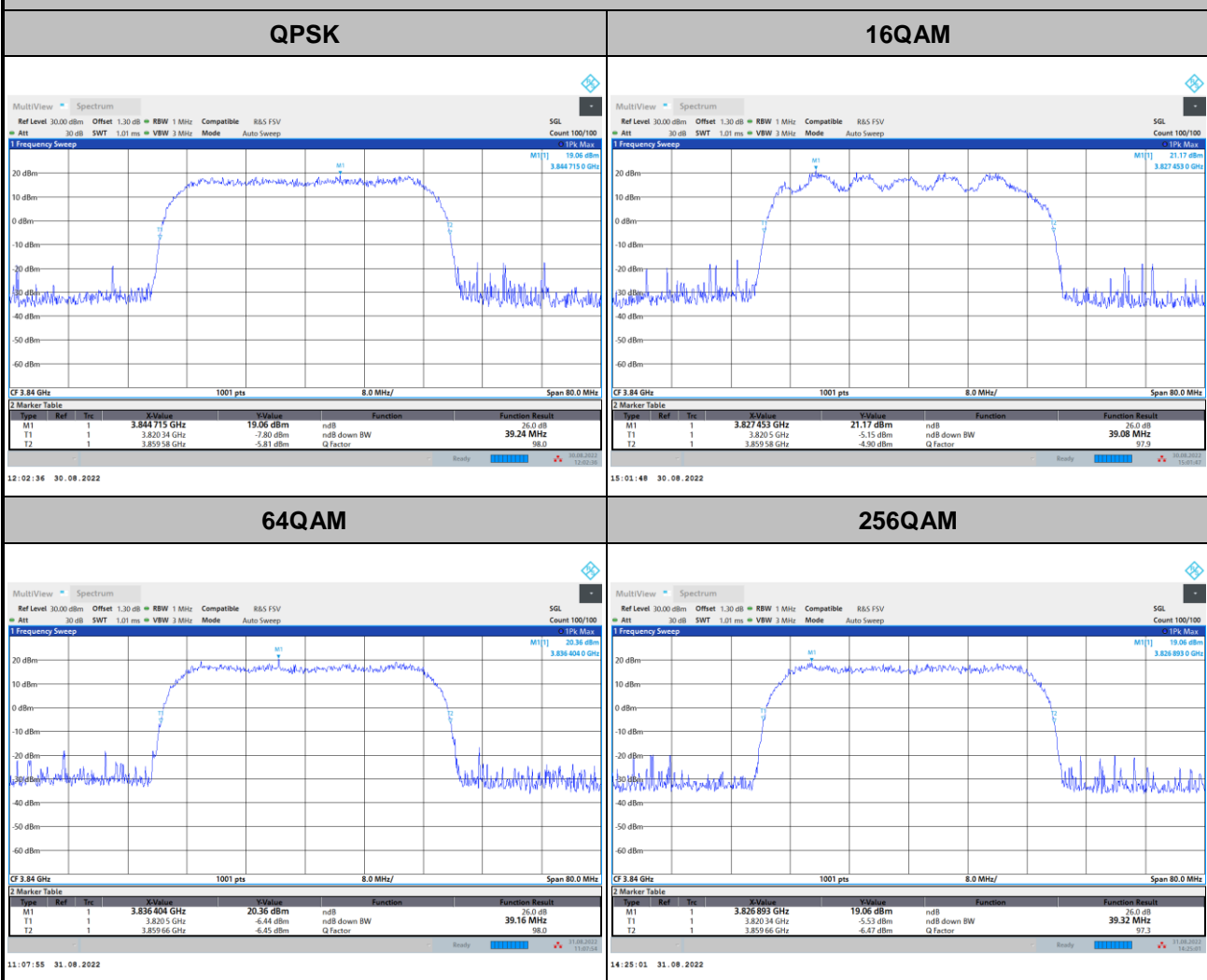




26dB Bandwidth

Mode	FR1 n77 : 26dB BW(MHz)					
BW	40MHz		60MHz		80MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	39.24	39.08	59.58	59.34	79.60	79.44
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	39.16	39.32	59.58	59.22	79.60	79.60
BW	100MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	99.70	99.50				
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	99.50	99.50				

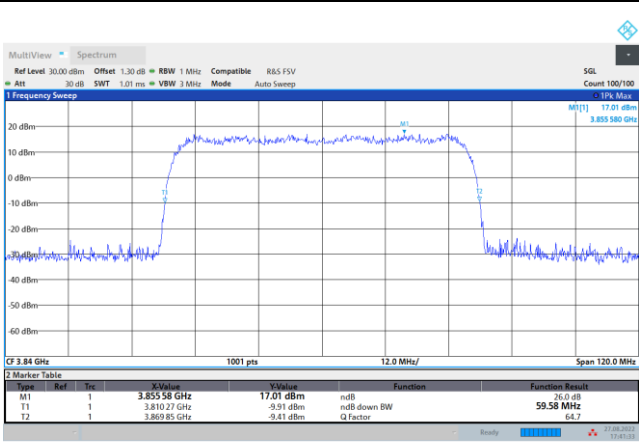
FR1 n77 / 40MHz / Middle Channel / 26dB BW





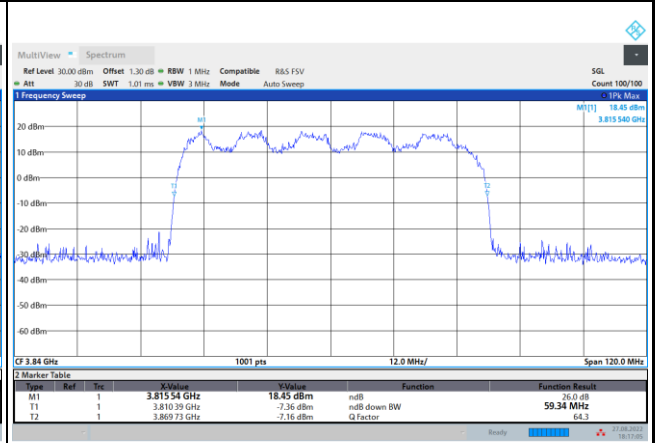
FR1 n77 / 60MHz / Middle Channel / 26dB BW

QPSK



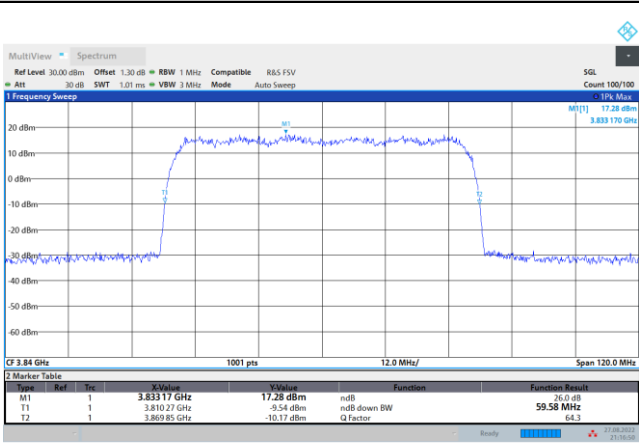
17:41:33 27.08.2022

16QAM



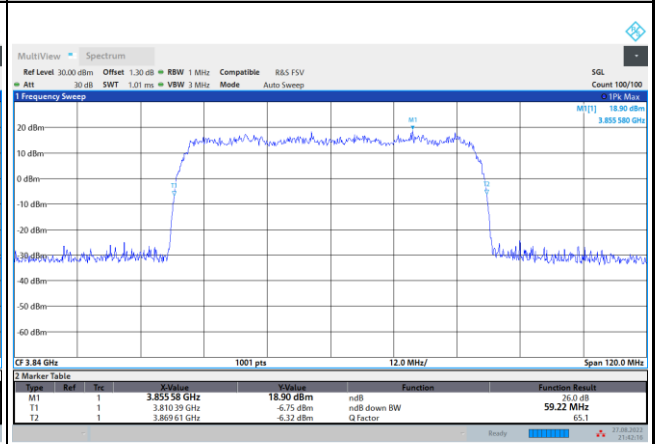
18:17:06 27.08.2022

64QAM



21:14:51 27.08.2022

256QAM

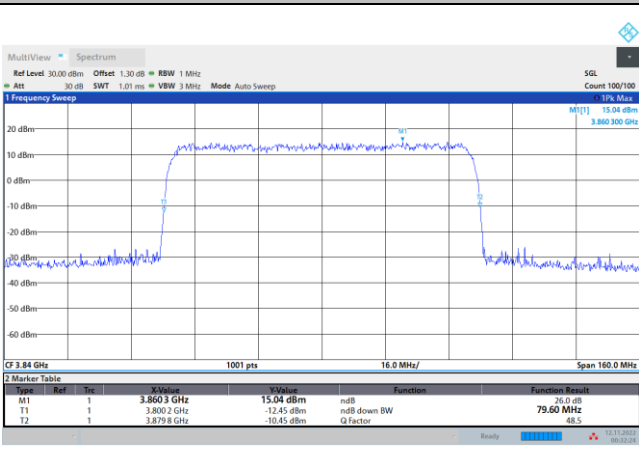


21:42:17 27.08.2022

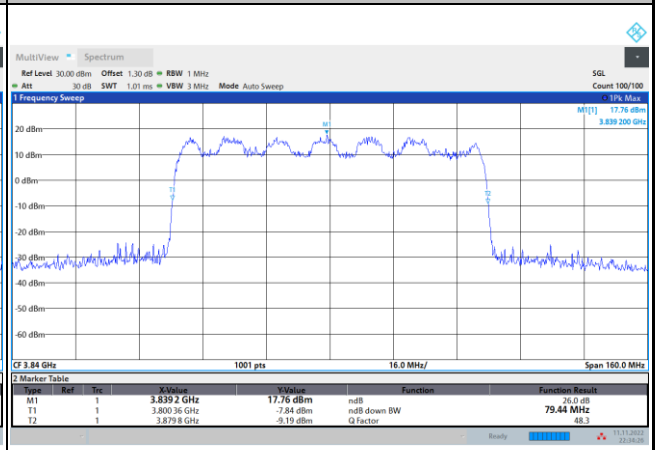


FR1 n77 / 80MHz / Middle Channel / 26dB BW

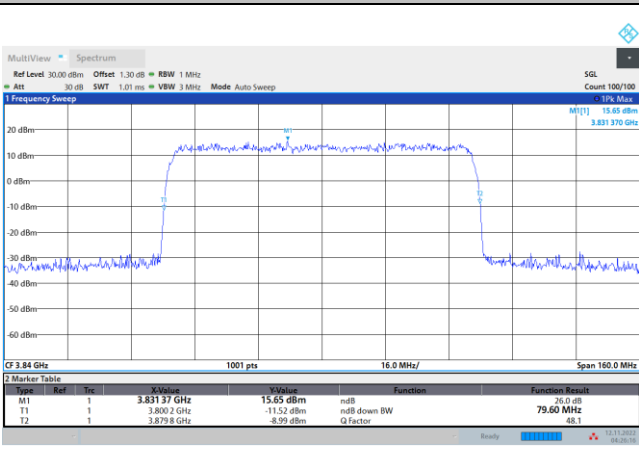
QPSK



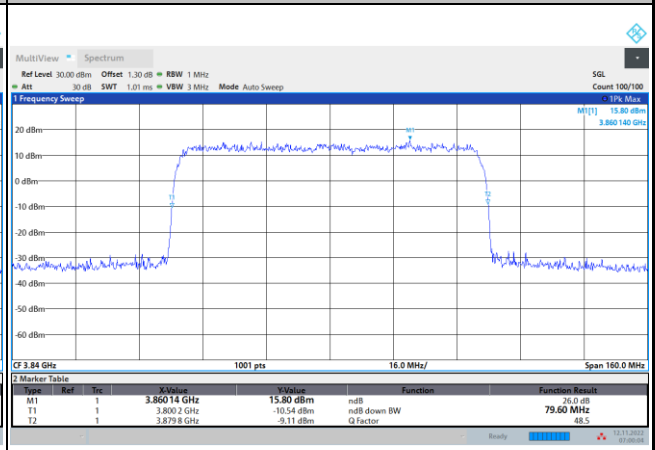
16QAM



64QAM



256QAM

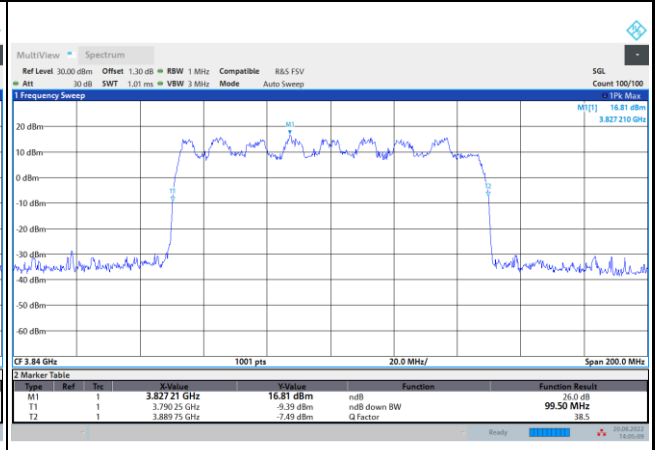
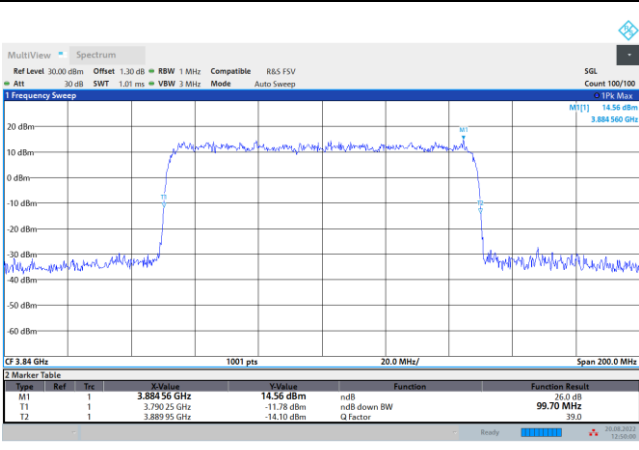




FR1 n77 / 100MHz / Middle Channel / 26dB BW

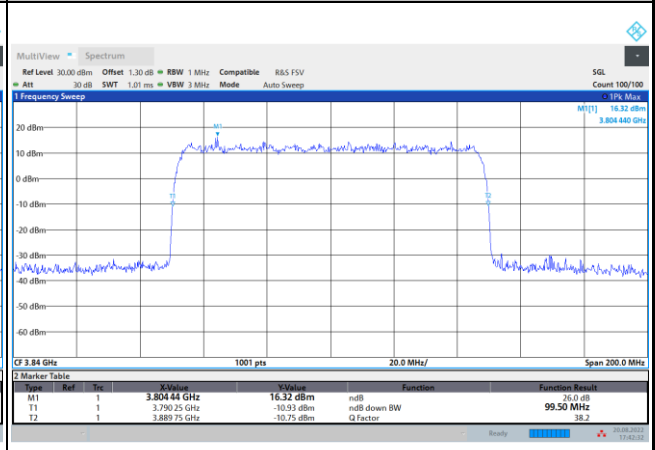
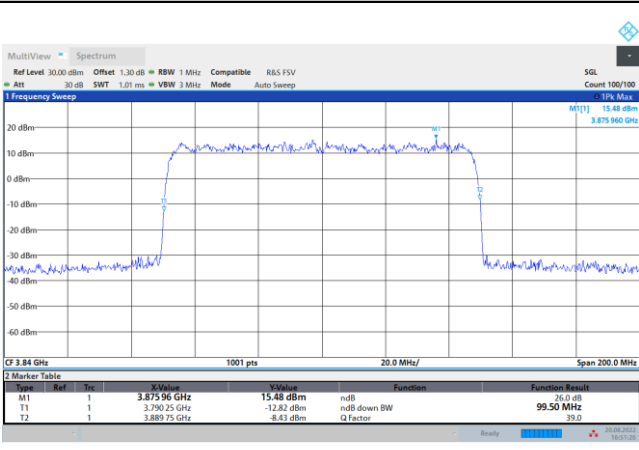
QPSK

16QAM



64QAM

256QAM

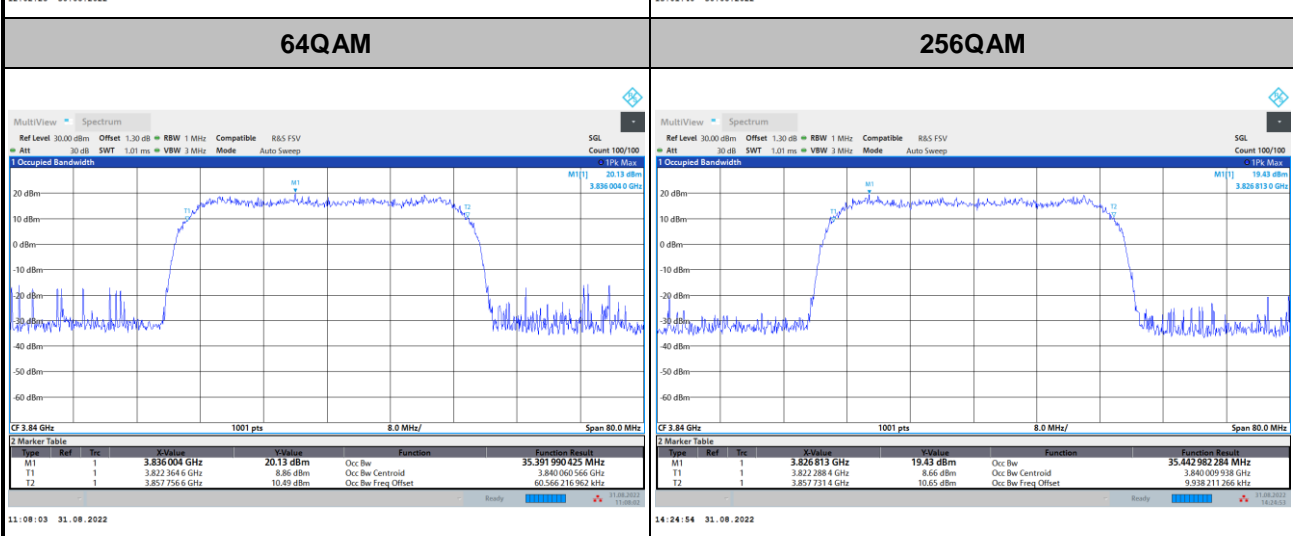
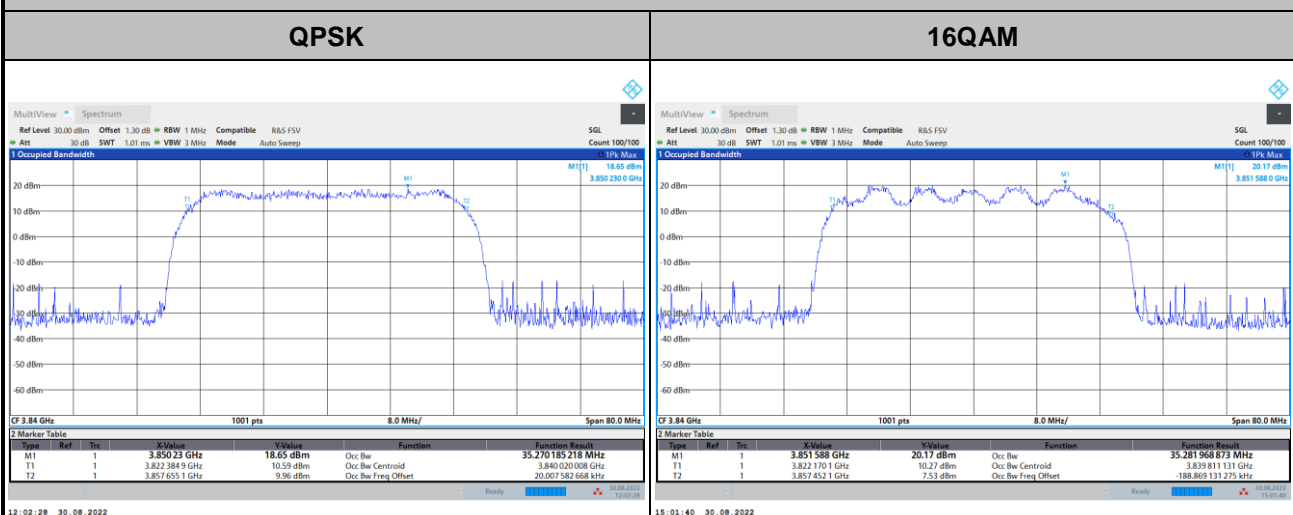




Occupied Bandwidth

Mode	FR1 n77 : 99%OBW (MHz)					
	40MHz		60MHz		80MHz	
BW	40MHz		60MHz		80MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	35.27	35.28	54.96	54.78	75.06	75.76
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	35.39	35.44	54.93	54.97	75.04	75.05
BW	100MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	94.29	93.80				
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	94.31	94.31				

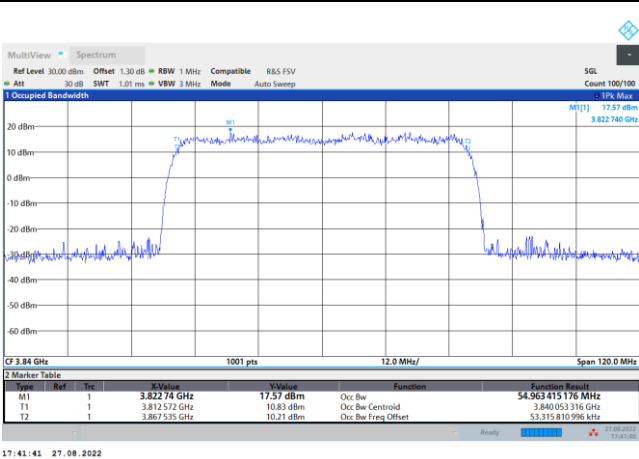
FR1 n77 / 40MHz / Middle Channel / 99%OBW



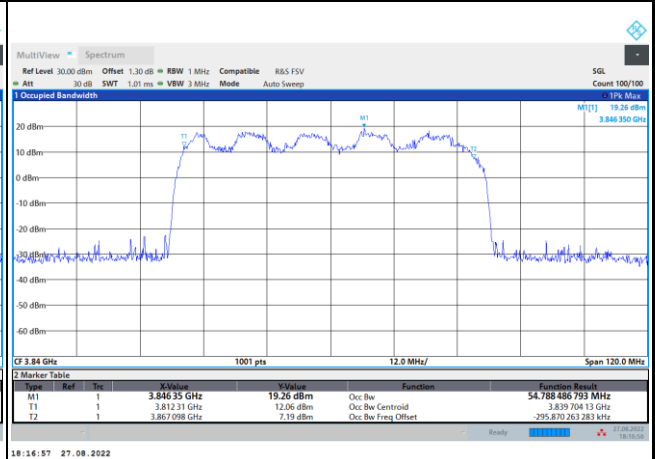


FR1 n77 / 60MHz / Middle Channel / 99%OBW

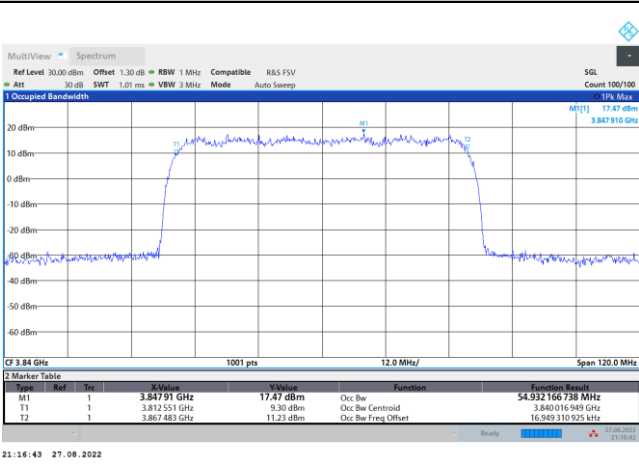
QPSK



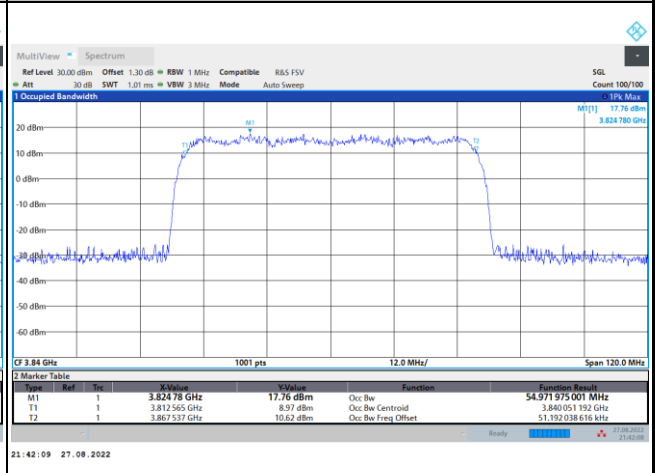
16QAM



64QAM



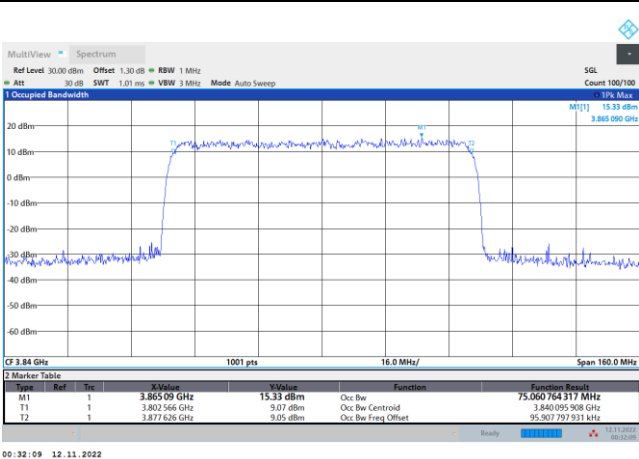
256QAM



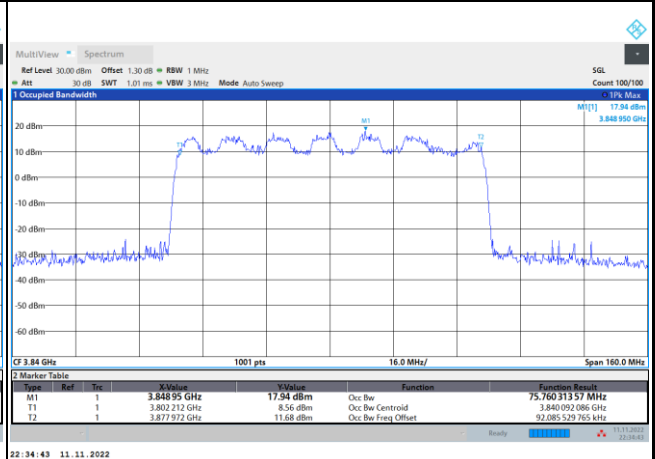


FR1 n77 / 80MHz / Middle Channel / 99%OBW

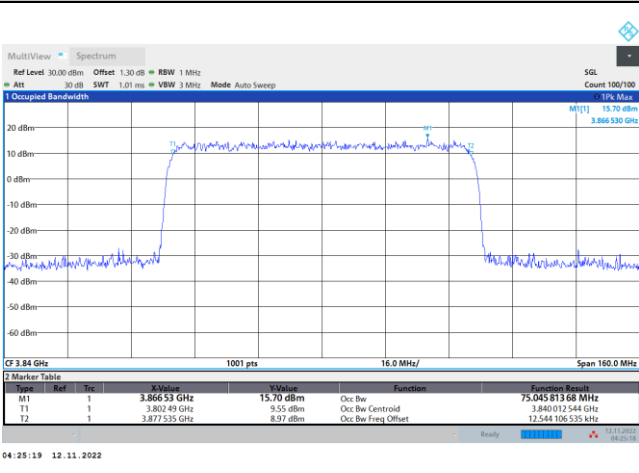
QPSK



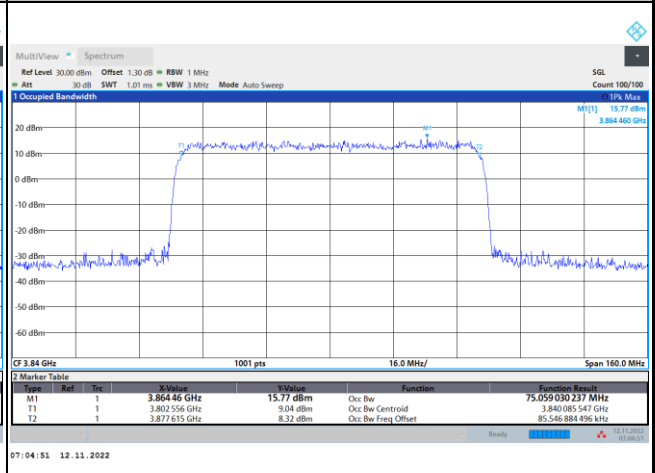
16QAM



64QAM



256QAM

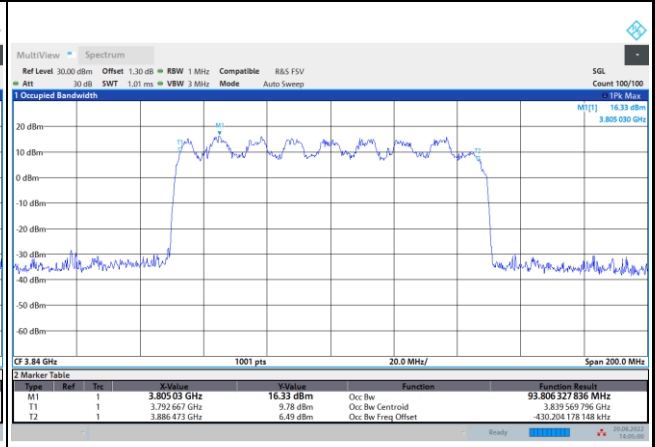
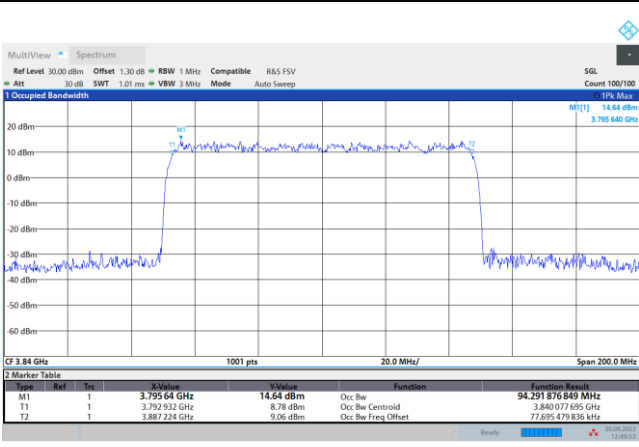




FR1 n77 / 100MHz / Middle Channel / 99%OBW

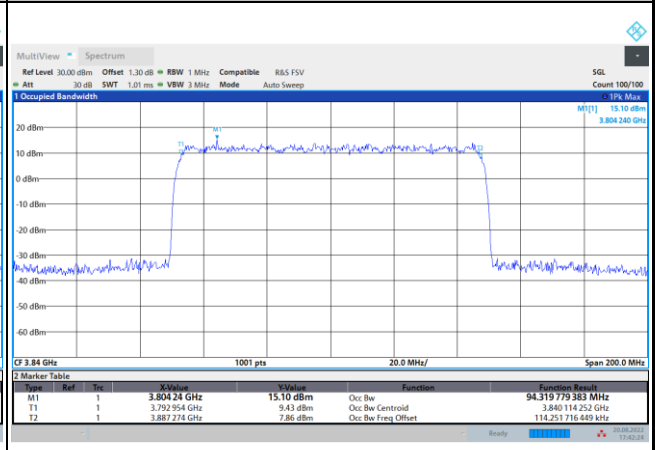
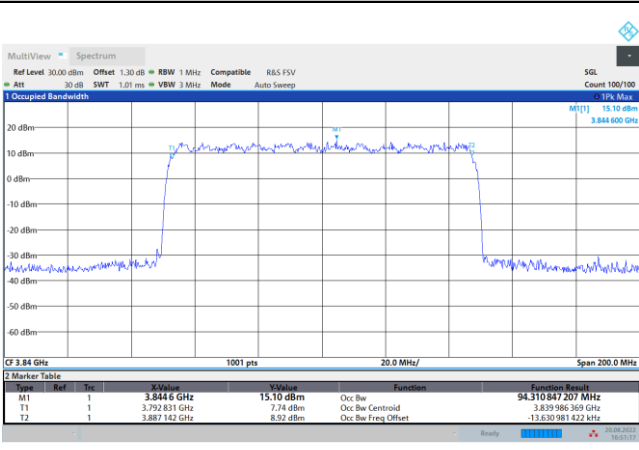
QPSK

16QAM



64QAM

256QAM



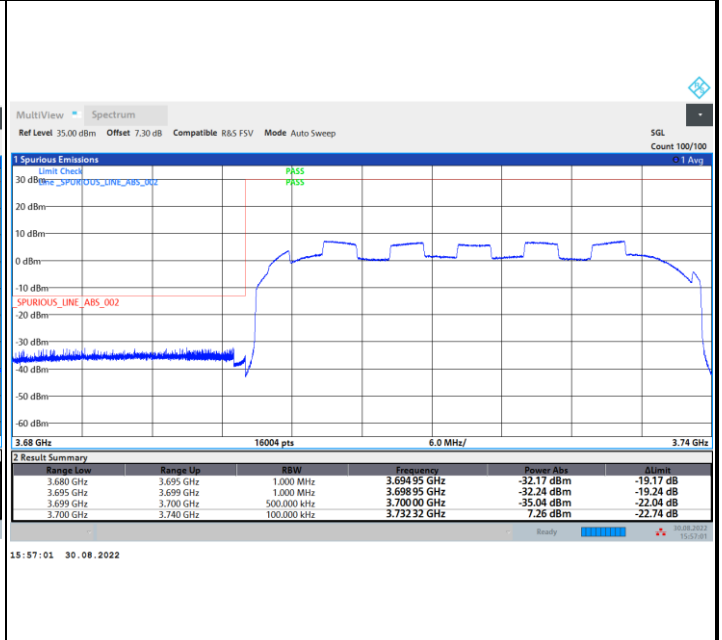
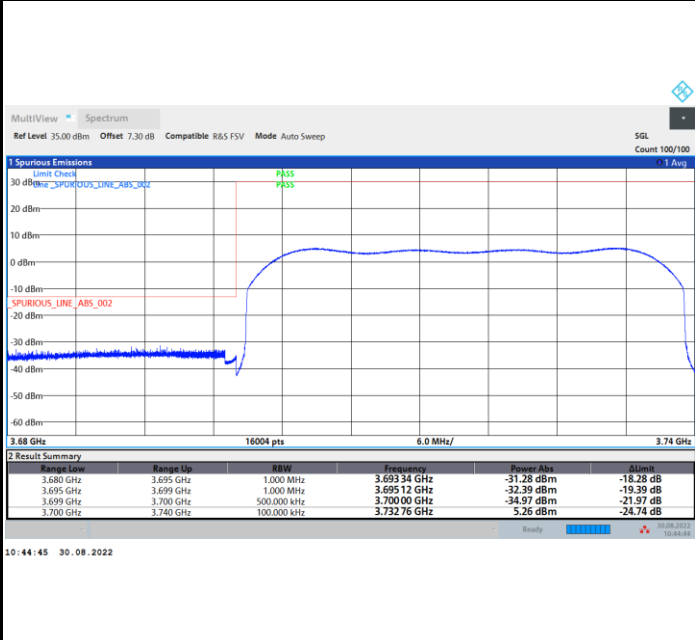


Conducted Band Edge

FR1 n77 / 40MHz / Lowest Band Edge / Full RB

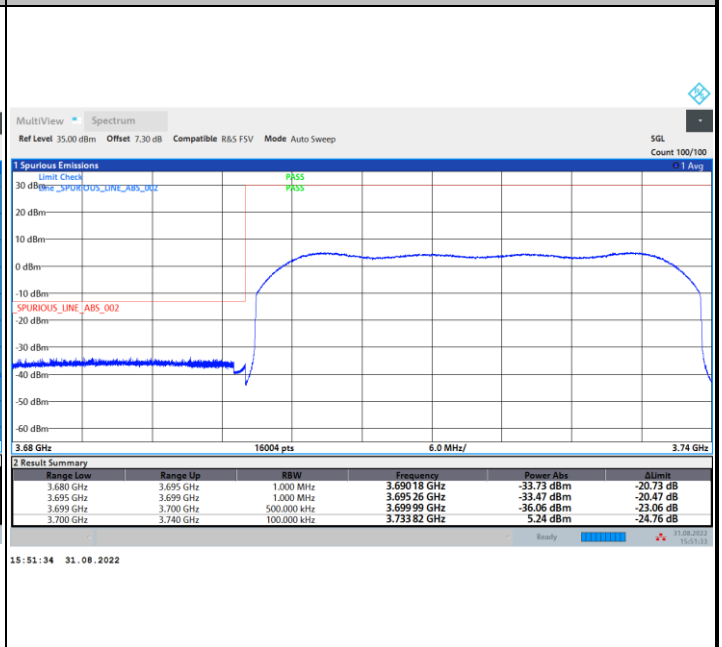
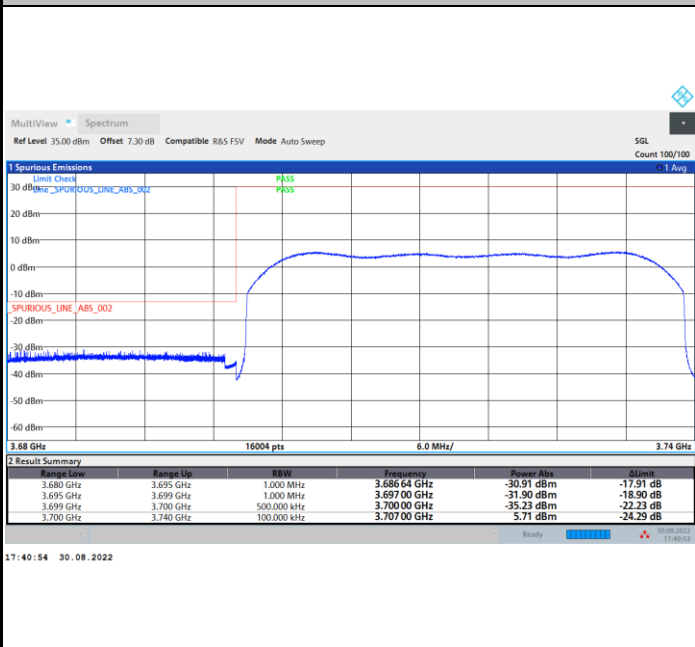
QPSK

16QAM



64QAM

256QAM

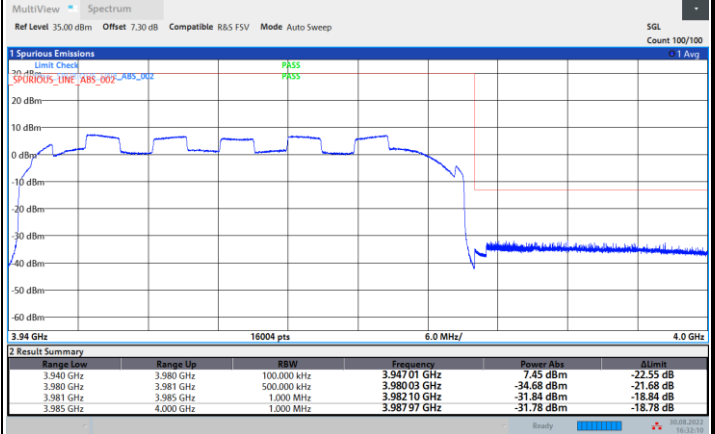
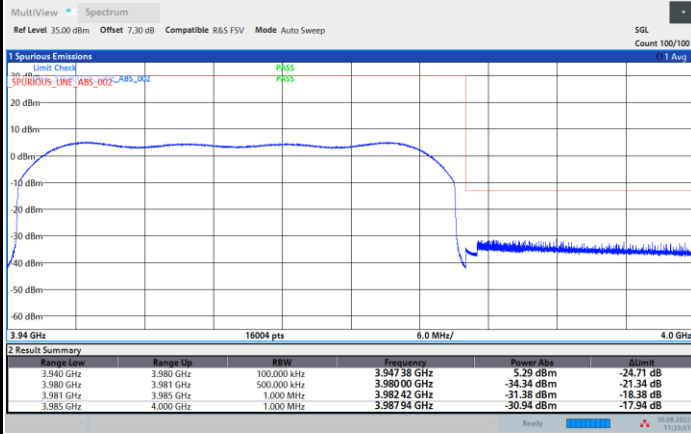




FR1 n77 / 40MHz / Highest Band Edge / Full RB

QPSK

16QAM

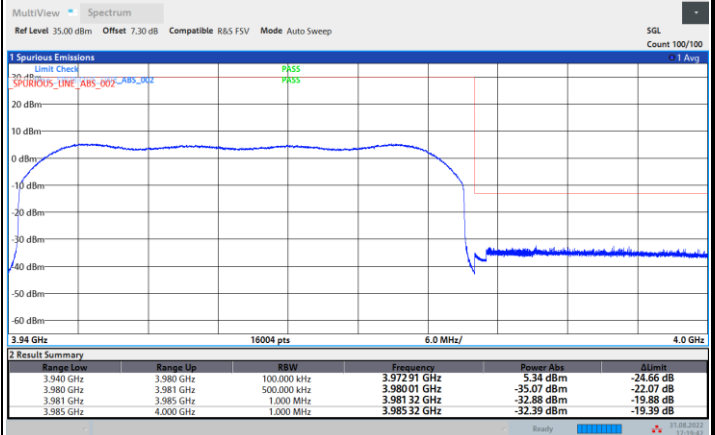
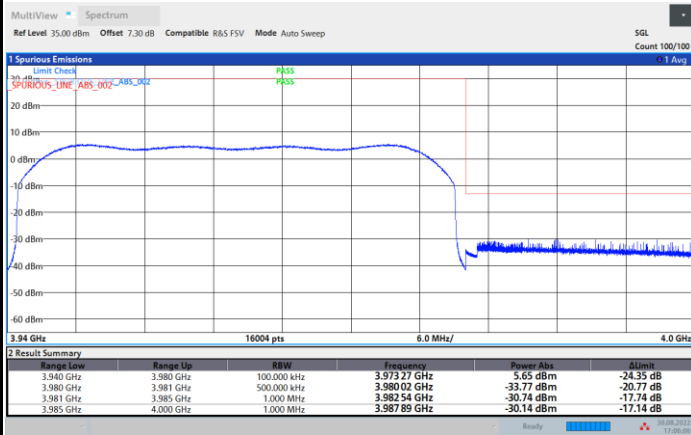


11:33:52 30.08.2022

16:32:10 30.08.2022

64QAM

256QAM



17:06:07 30.08.2022

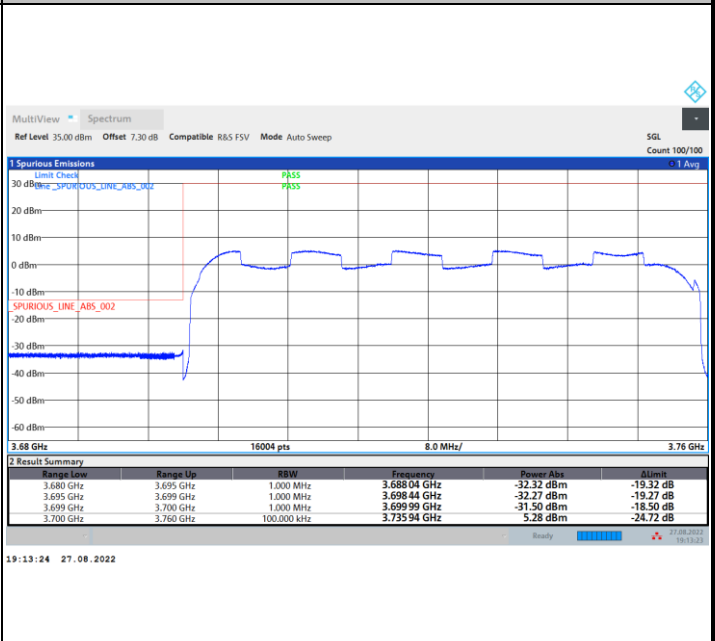
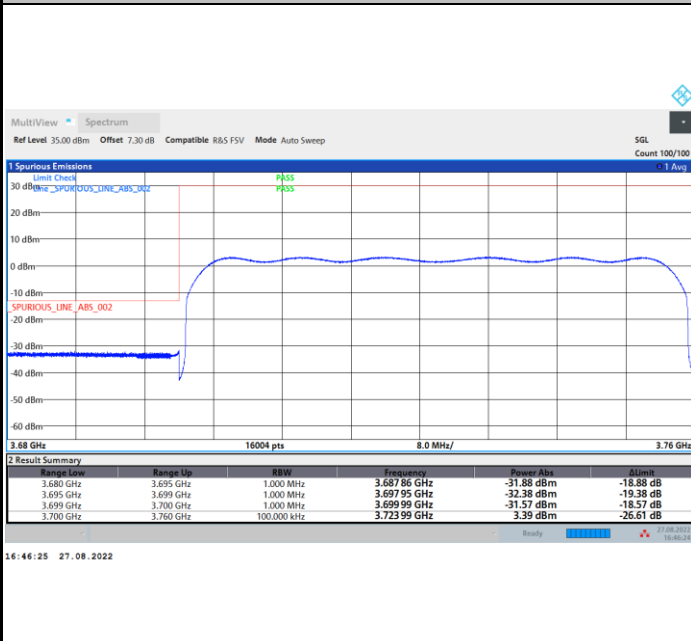
17:19:43 31.08.2022



FR1 n77 / 60MHz / Lowest Band Edge / Full RB

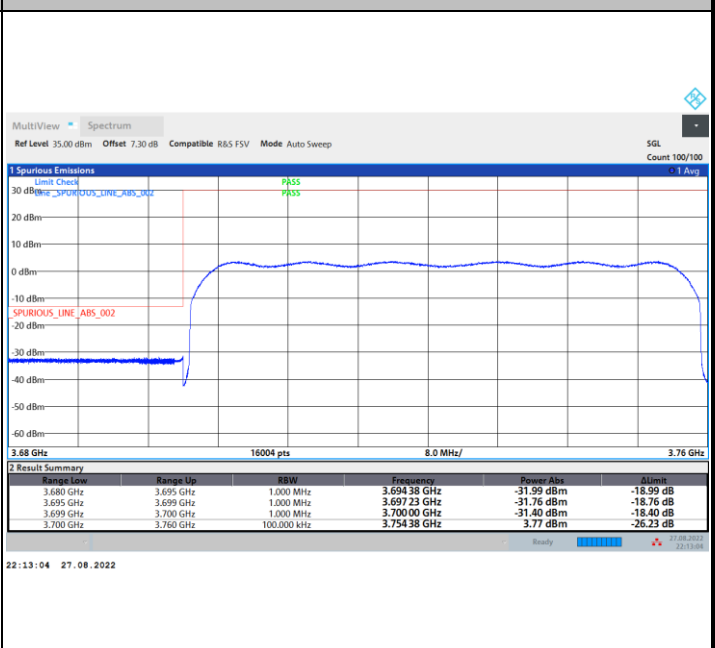
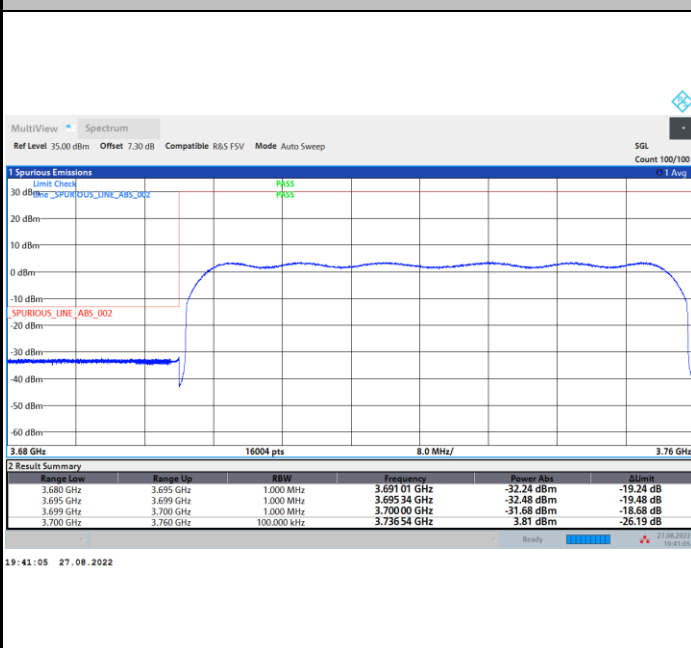
QPSK

16QAM



64QAM

256QAM

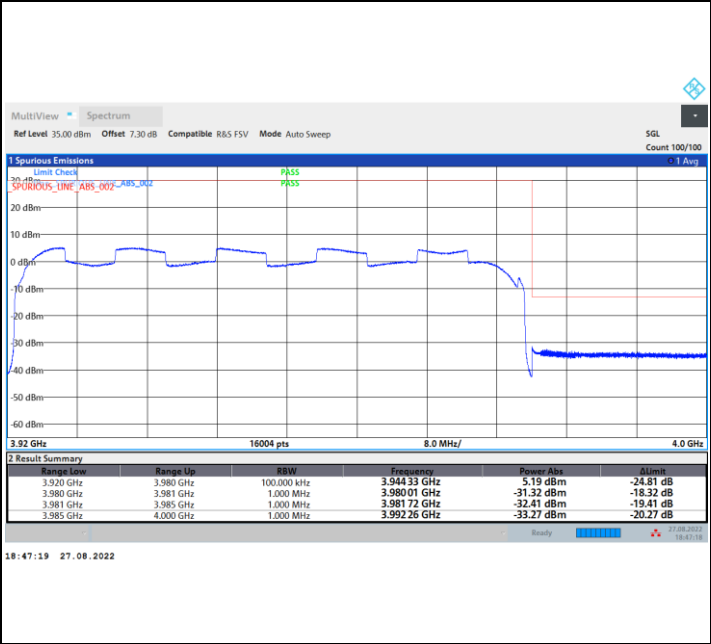
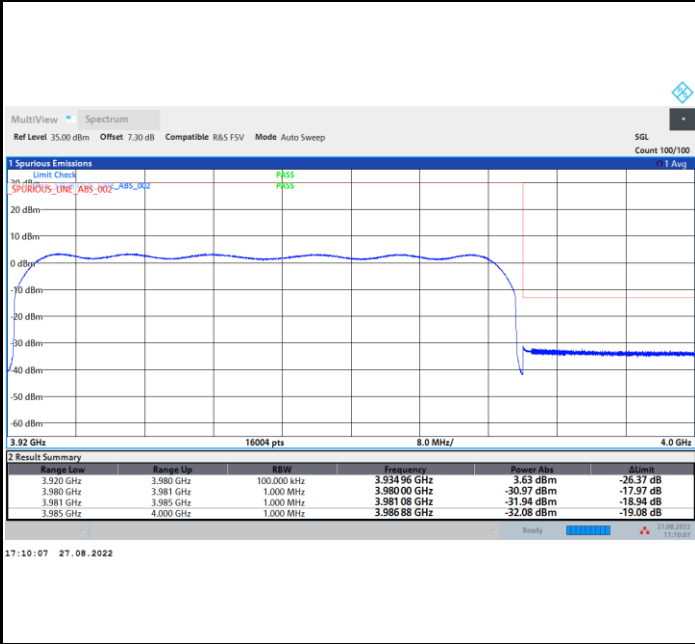




FR1 n77 / 60MHz / Highest Band Edge / Full RB

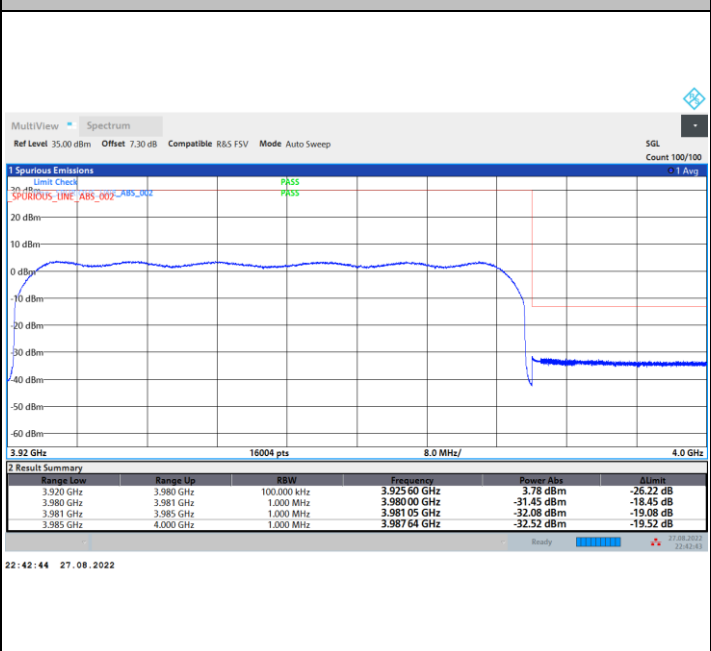
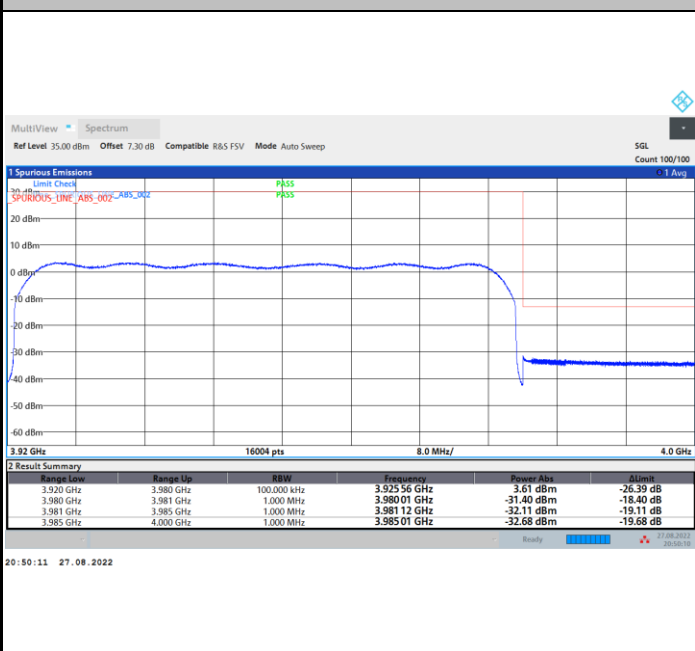
QPSK

16QAM



64QAM

256QAM

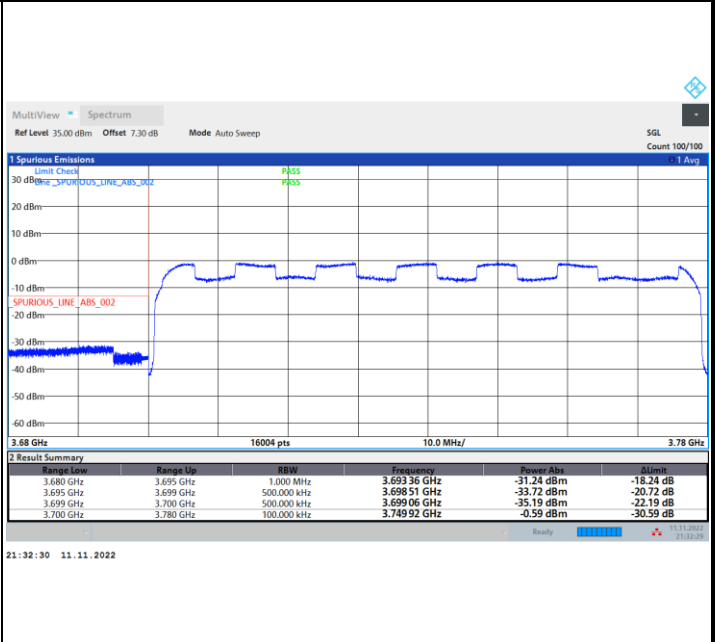
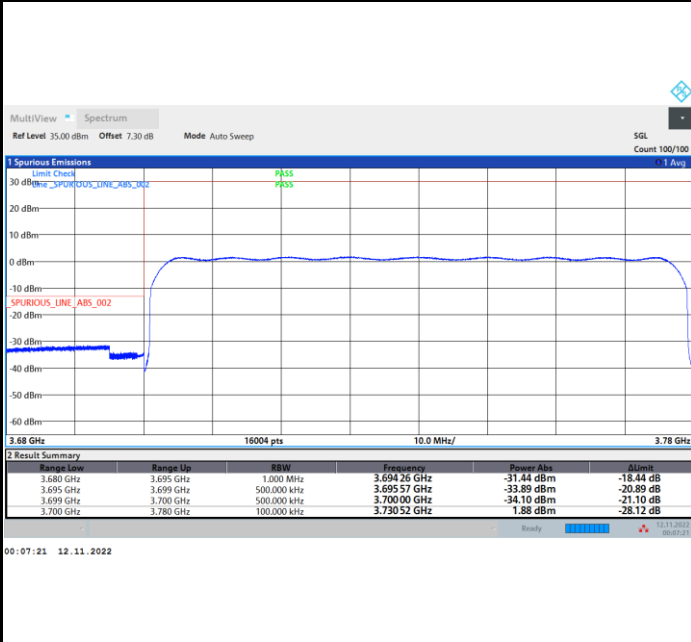




FR1 n77 / 80MHz / Lowest Band Edge / Full RB

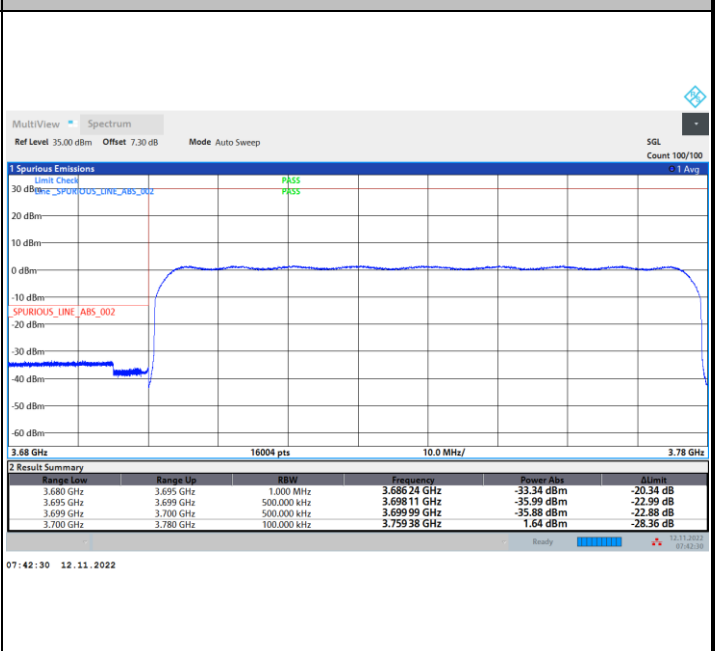
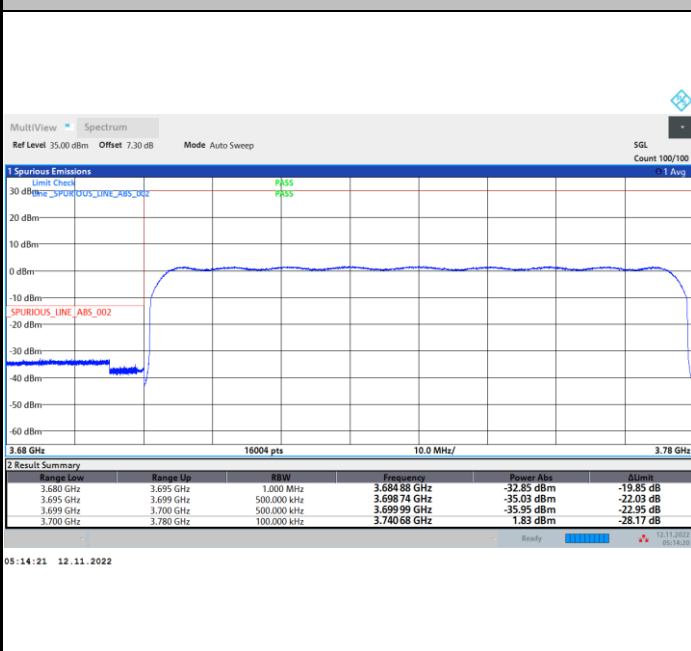
QPSK

16QAM



64QAM

256QAM

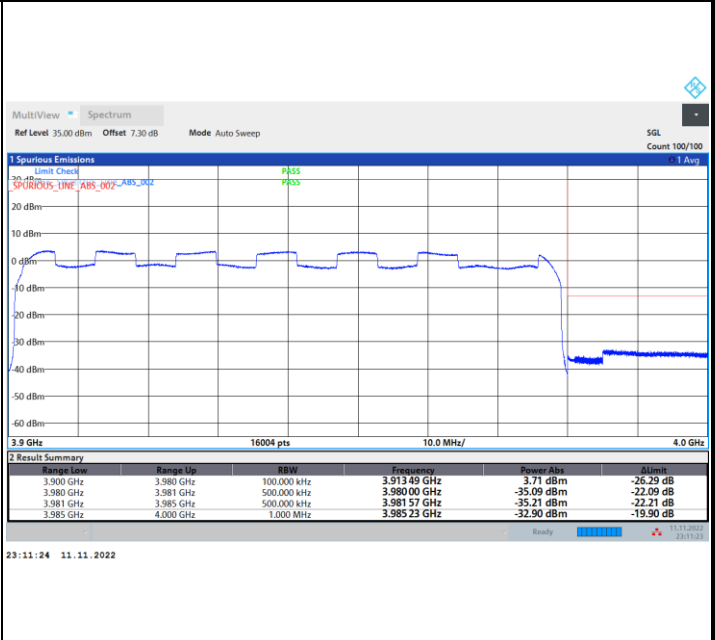
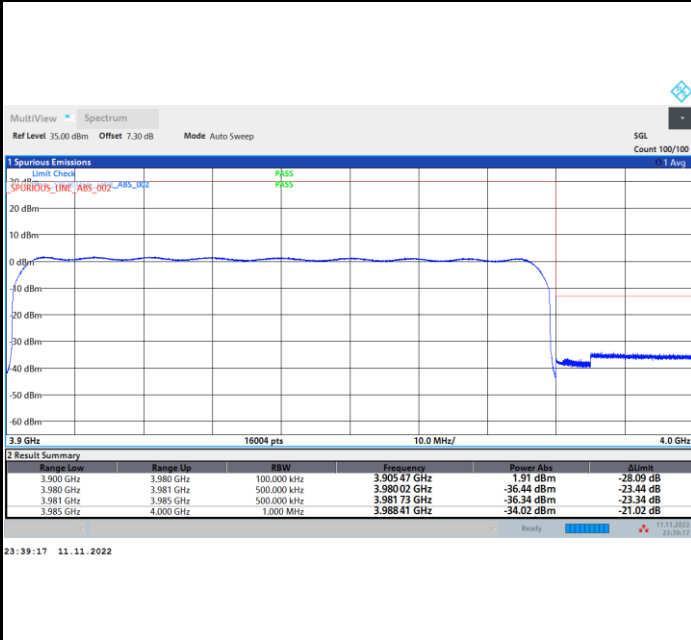




FR1 n77 / 80MHz / Highest Band Edge / Full RB

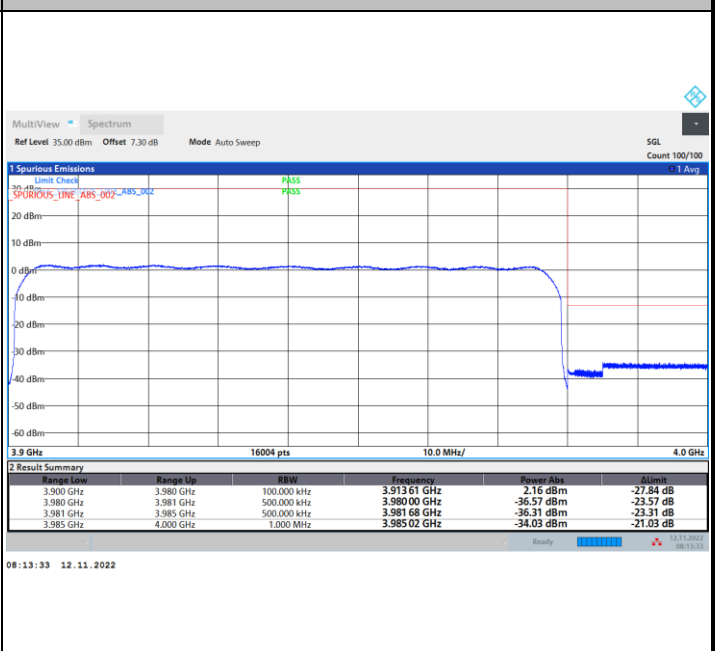
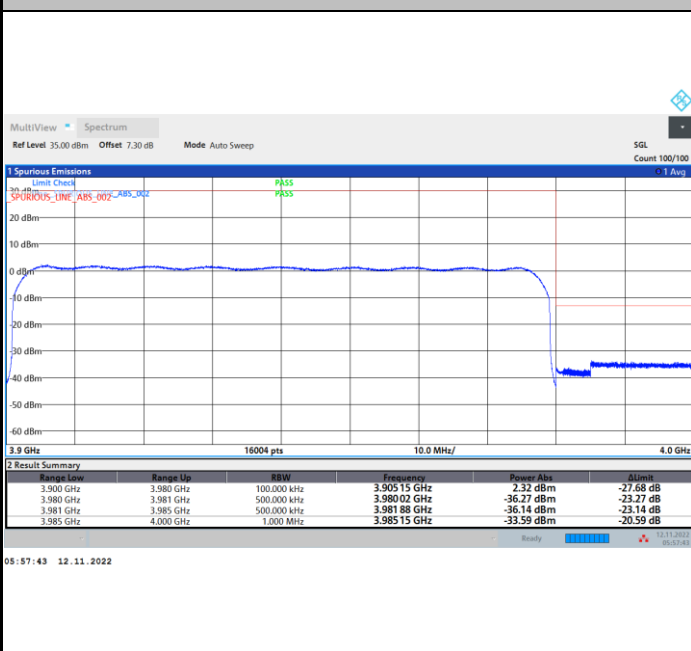
QPSK

16QAM



64QAM

256QAM

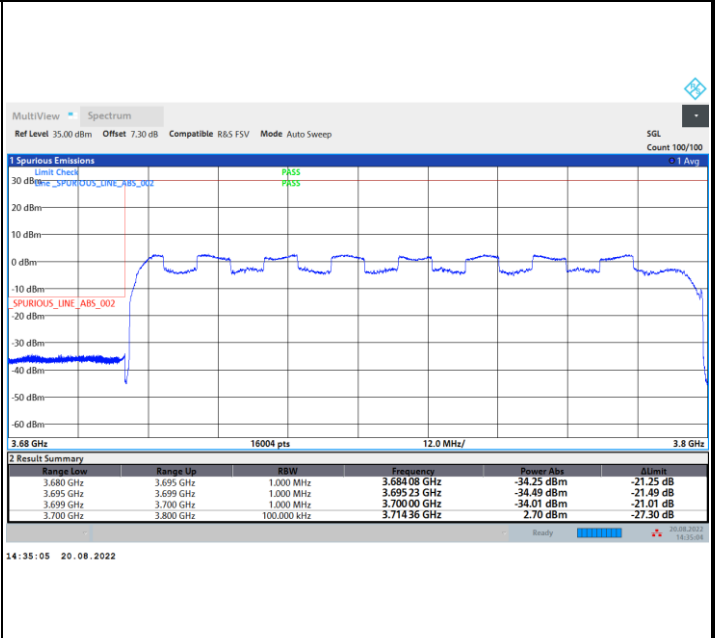
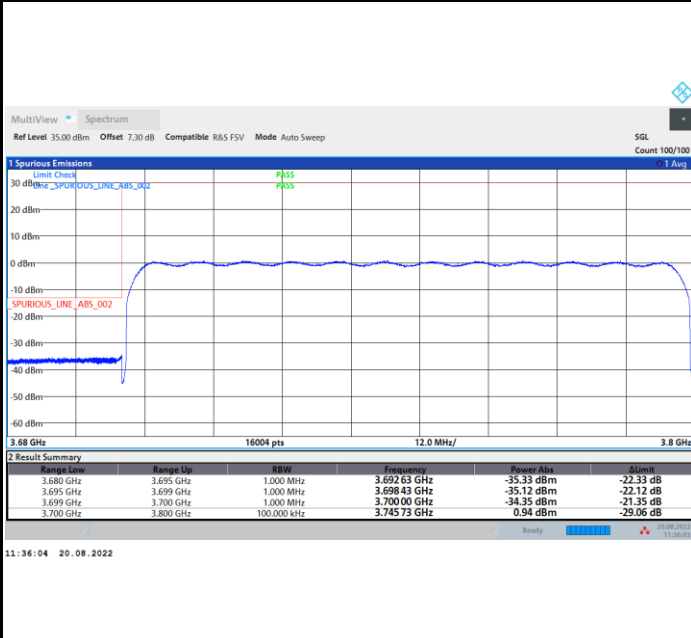




FR1 n77 / 100MHz / Lowest Band Edge / Full RB

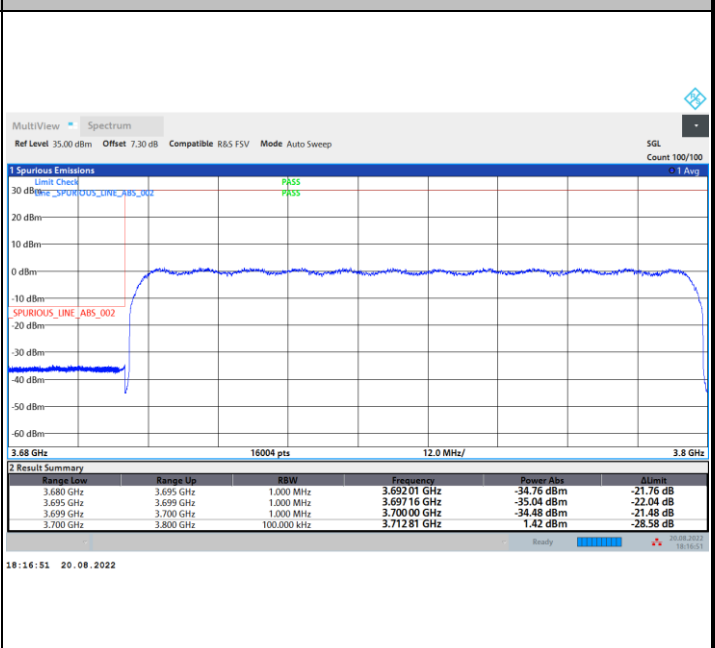
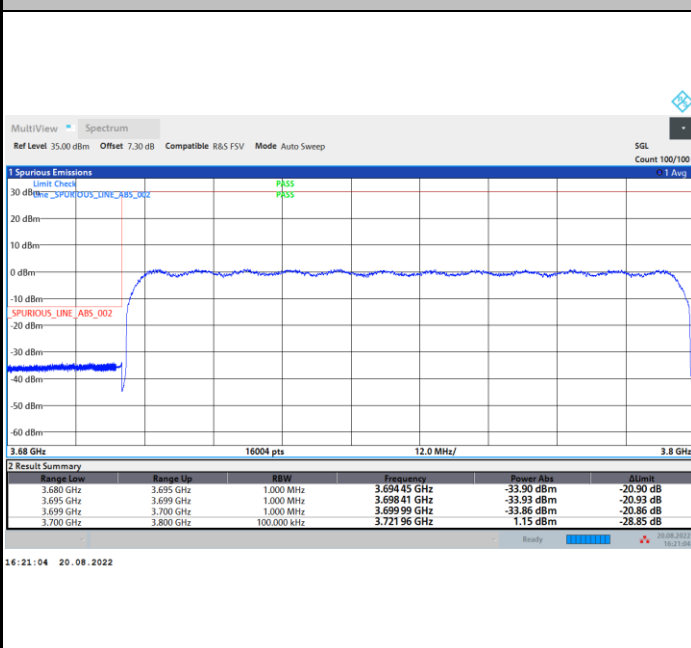
QPSK

16QAM



64QAM

256QAM

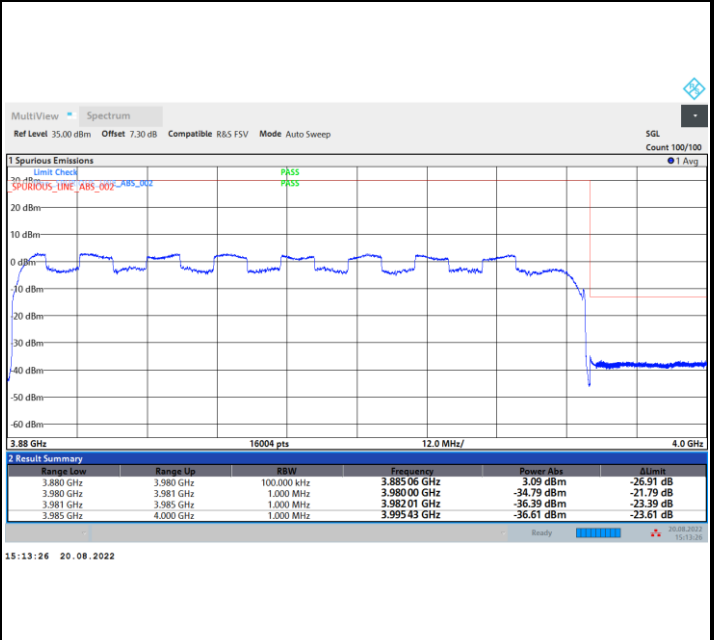
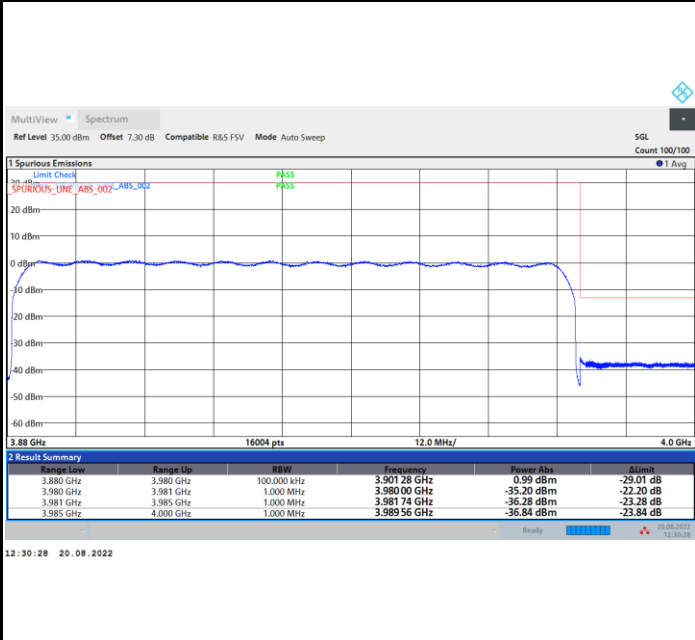




FR1 n77 / 100MHz / Highest Band Edge / Full RB

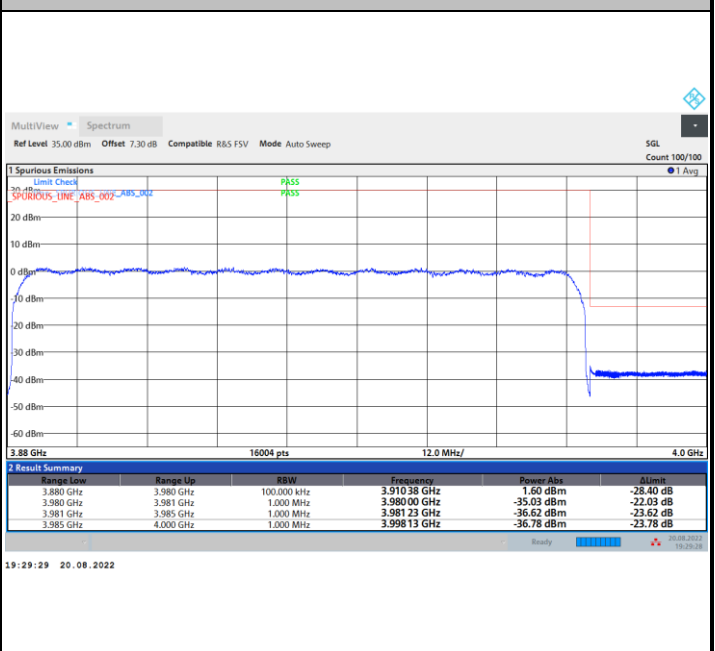
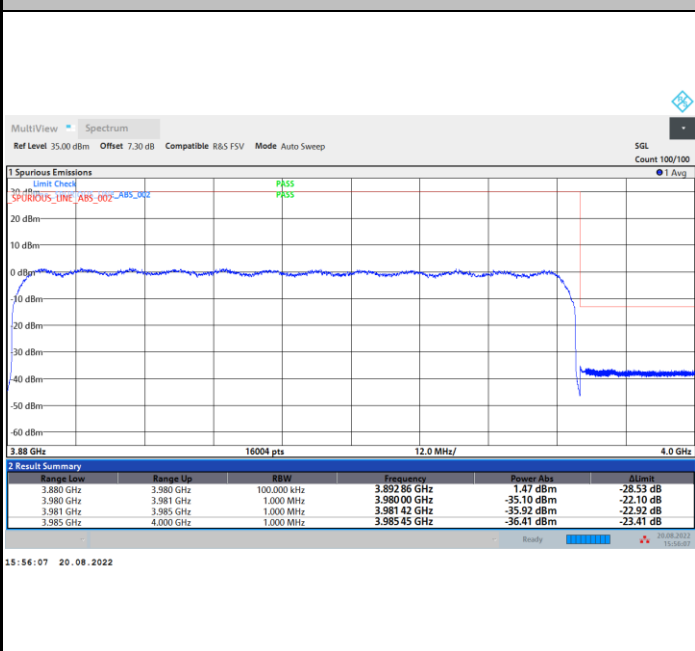
QPSK

16QAM



64QAM

256QAM

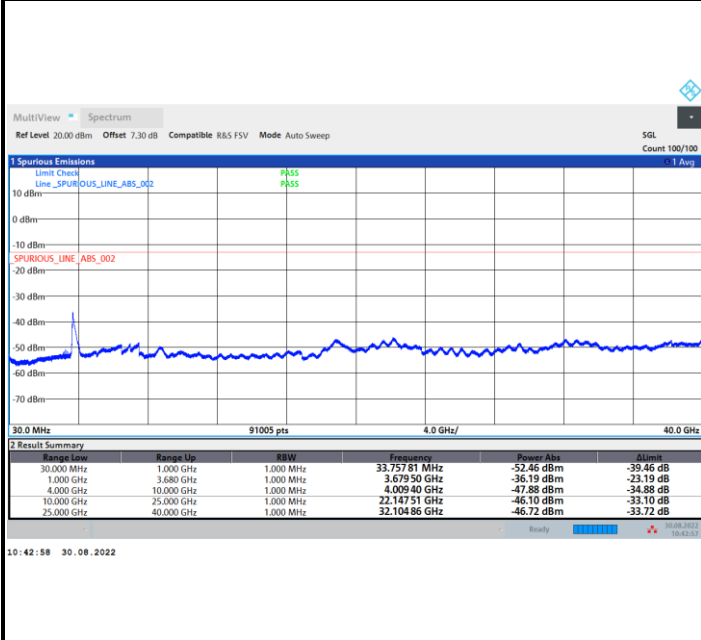




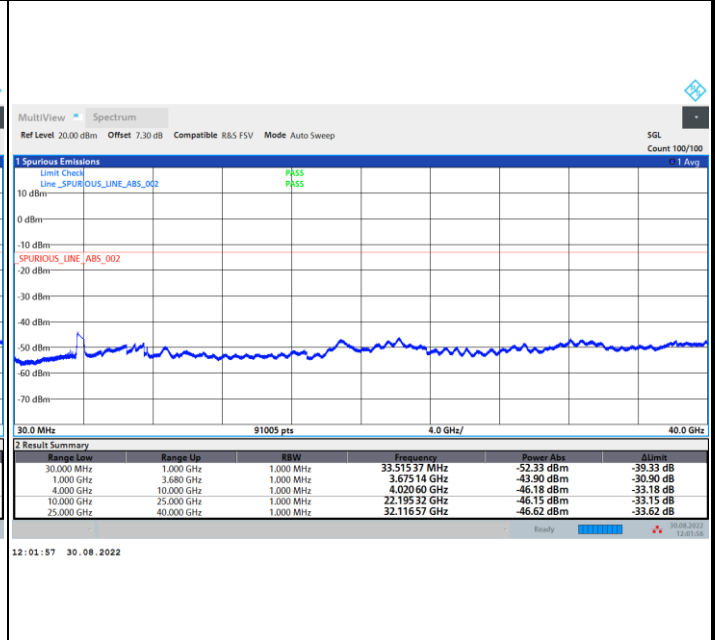
Emission Limit

FR1 n77 / 40MHz / QPSK / CSE Emission Limit

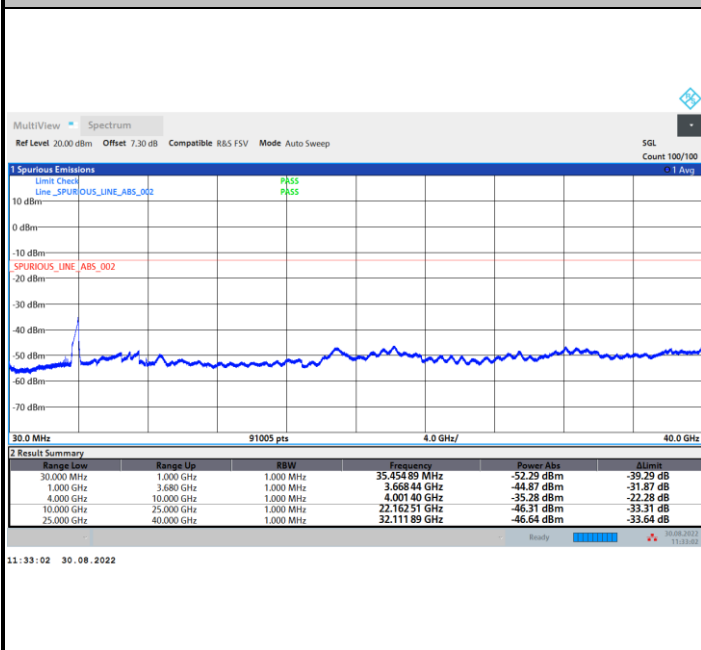
Lowest Channel



Middle Channel



Highest Channel

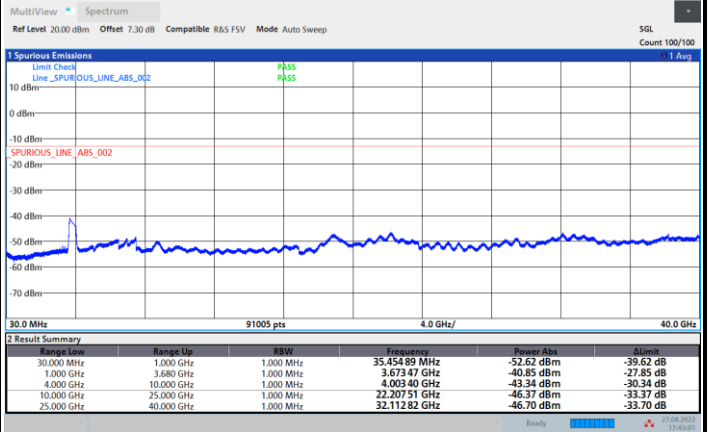
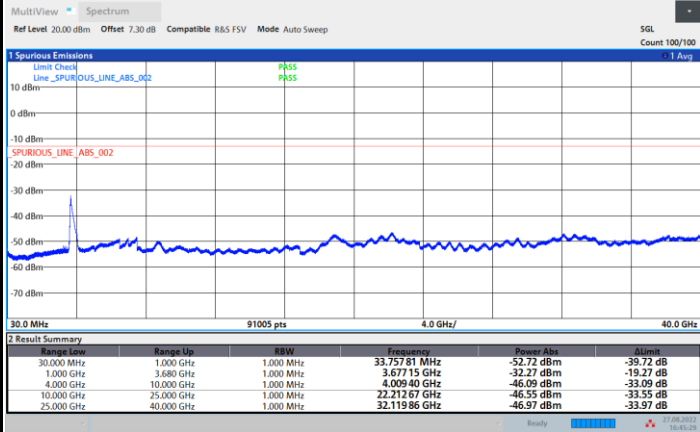




FR1 n77 / 60MHz / QPSK / CSE Emission Limit

Lowest Channel

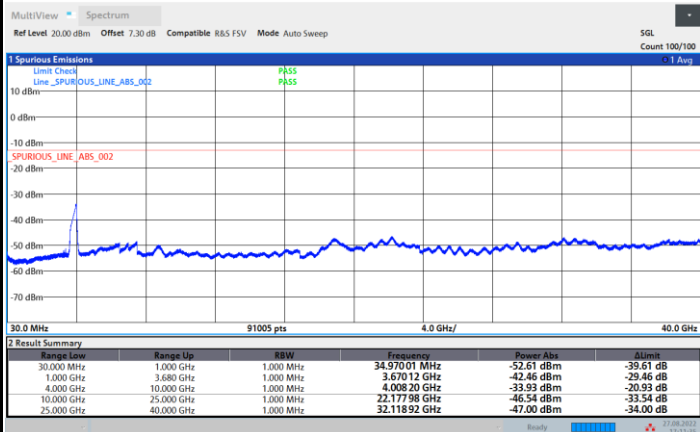
Middle Channel



16:45:30 27.08.2022

17:43:02 27.08.2022

Highest Channel



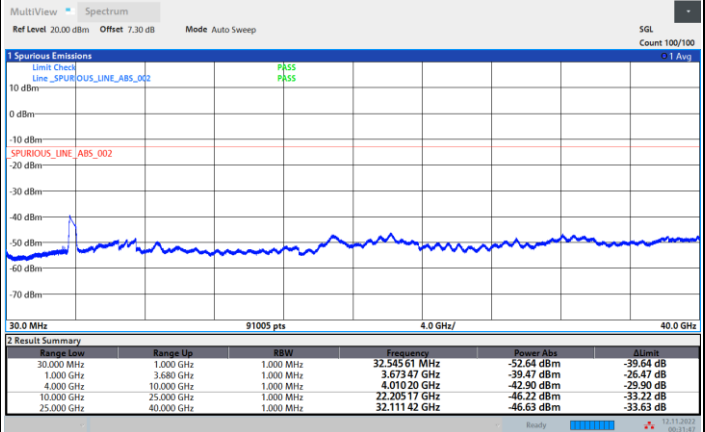
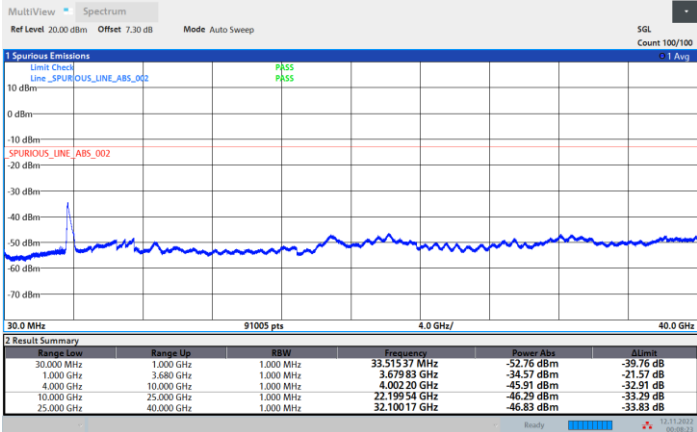
17:11:36 27.08.2022



FR1 n77 / 80MHz / QPSK / Emission Limit

Lowest Channel

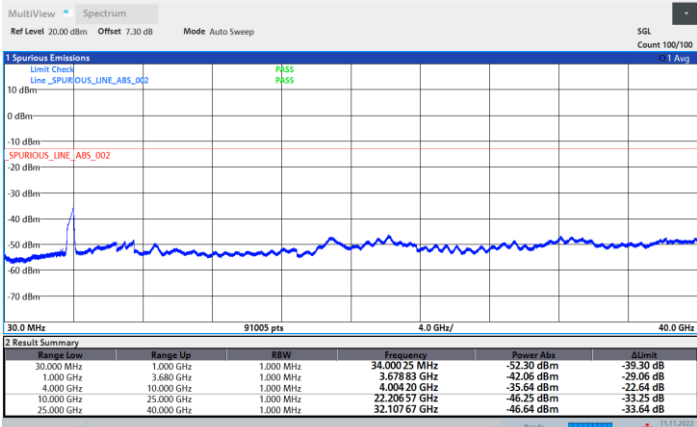
Middle Channel



00:08:23 12.11.2022

00:31:47 12.11.2022

Highest Channel



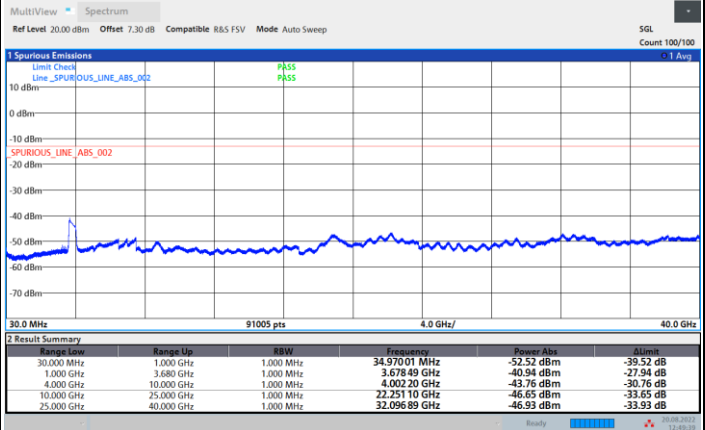
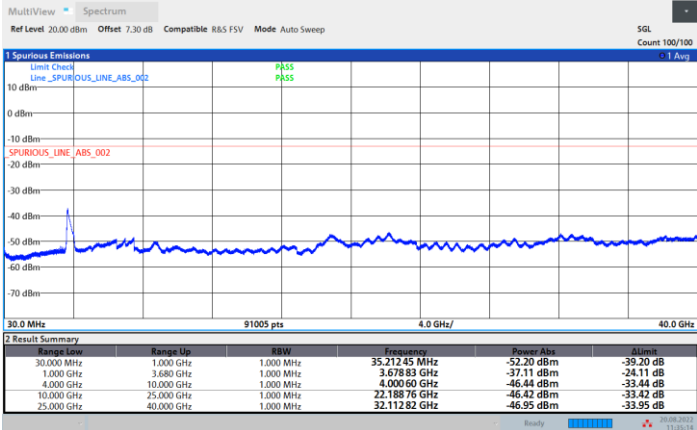
23:40:36 11.11.2022



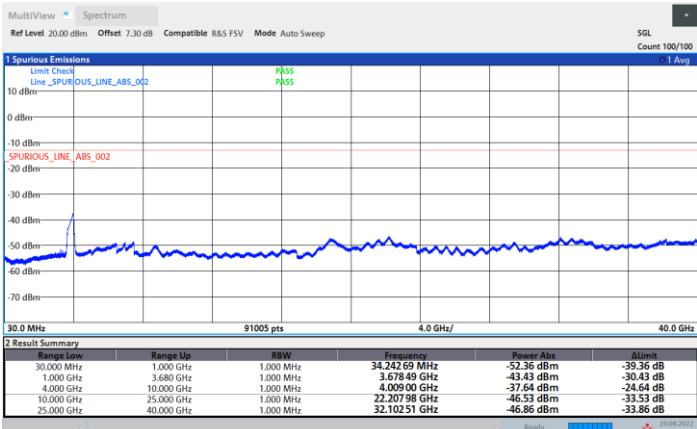
FR1 n77 / 100MHz / QPSK / CSE Emission Limit

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0056	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0066	
20	Normal Voltage	0.0010	
20	Minimum Voltage	0.0031	

Note:

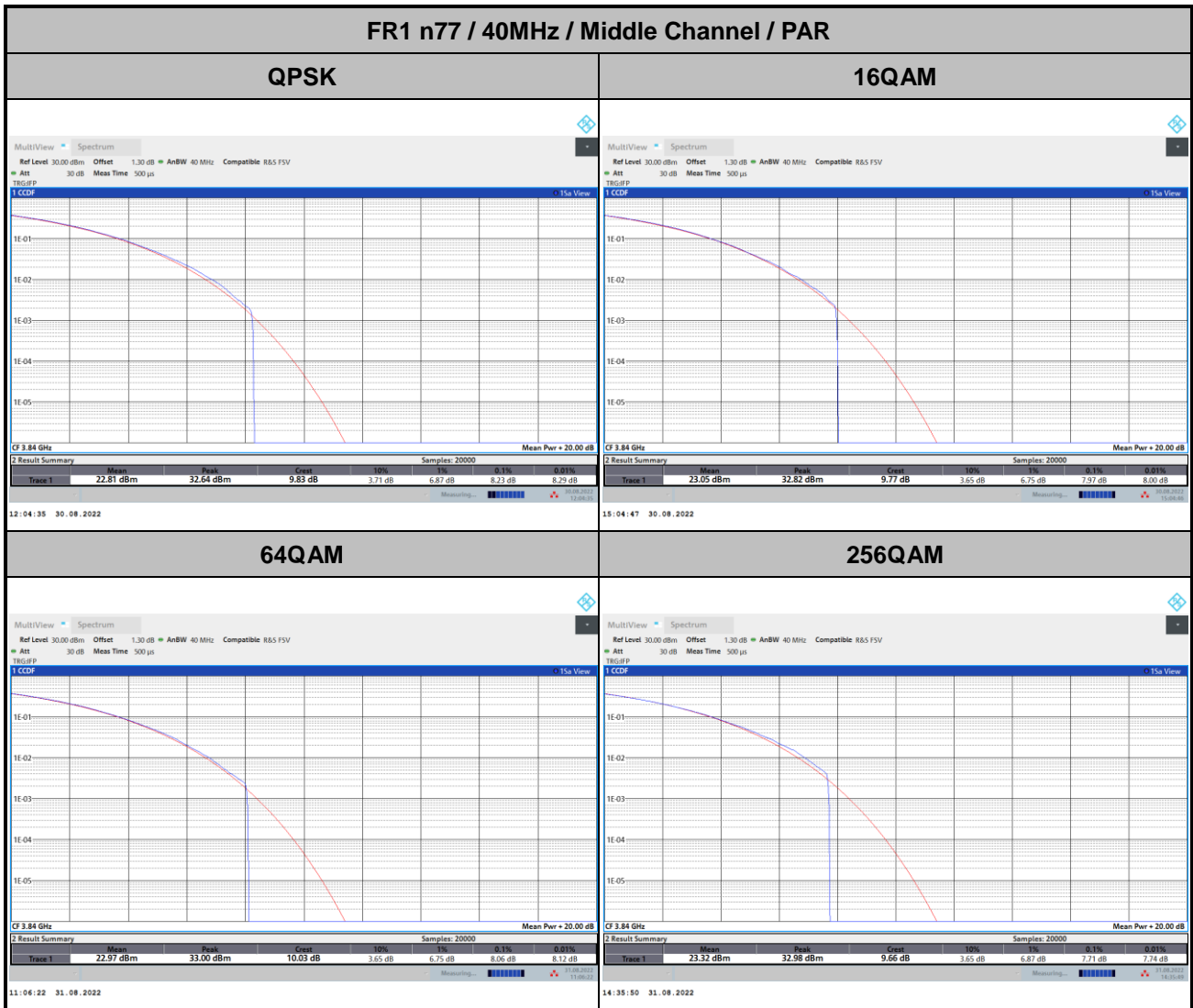
- 1. Normal Voltage = 48 V. ; Minimum Voltage = 36 V. ; Maximum Voltage = 60 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



<MIMO ANT 4>

Peak-to-Average Ratio

Mode	FR1 n77 / 40MHz / PAR (dB)				Limit: 13dB
Mod.	QPSK	16QAM	64QAM	256QAM	Result
Middle CH	8.23	7.97	8.06	7.71	PASS

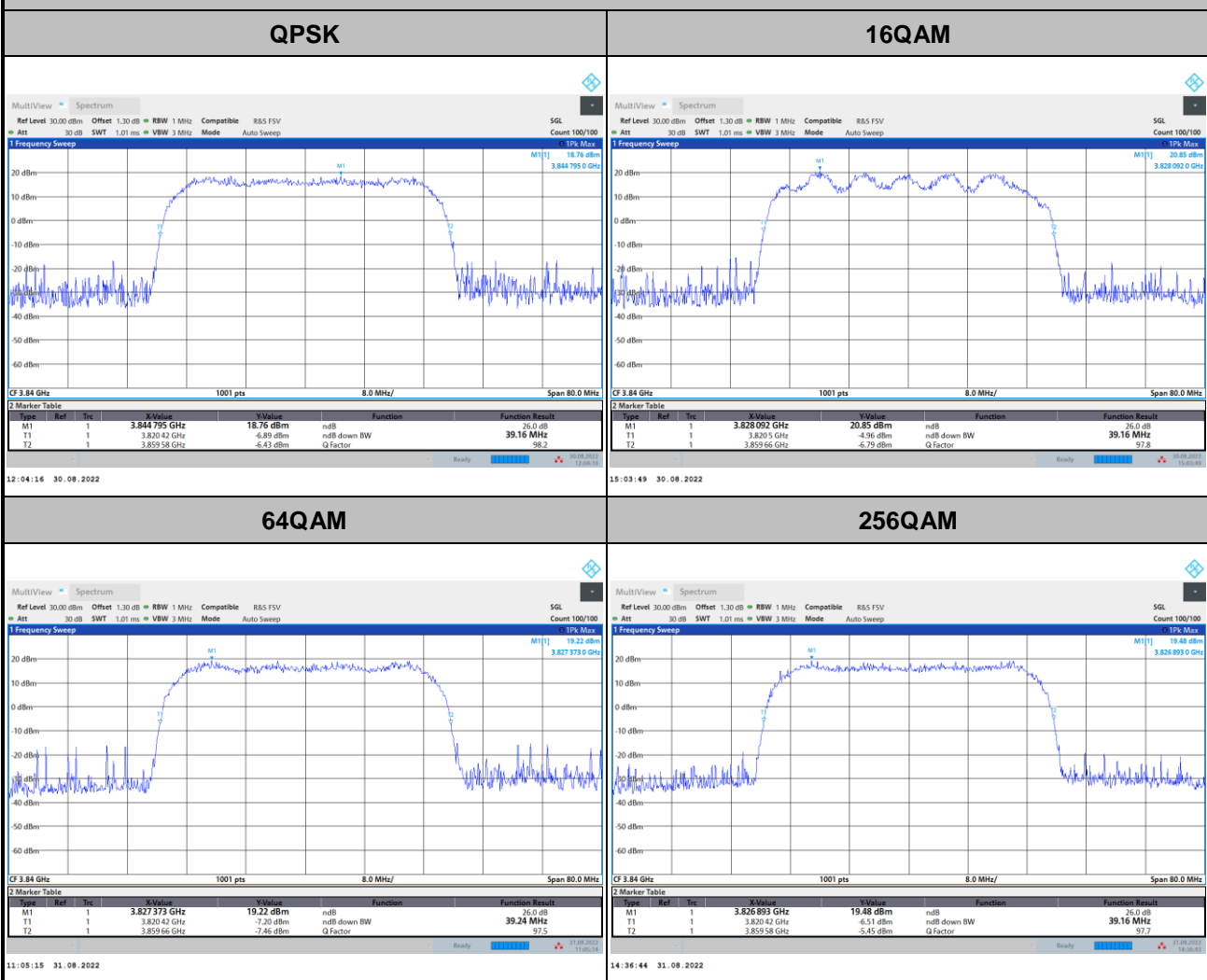




26dB Bandwidth

Mode	FR1 n77 : 26dB BW(MHz)					
BW	40MHz		60MHz		80MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	39.16	39.16	59.46	59.34	79.44	79.44
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	39.24	39.16	59.46	59.46	79.60	79.60
BW	100MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	99.50	99.30				
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	99.50	99.50				

FR1 n77 / 40MHz / Middle Channel / 26dB BW

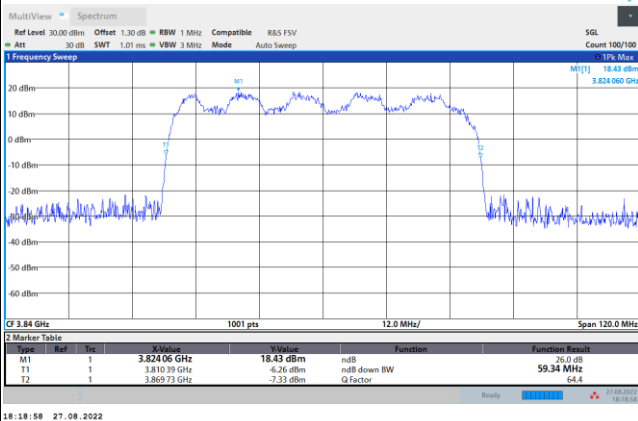
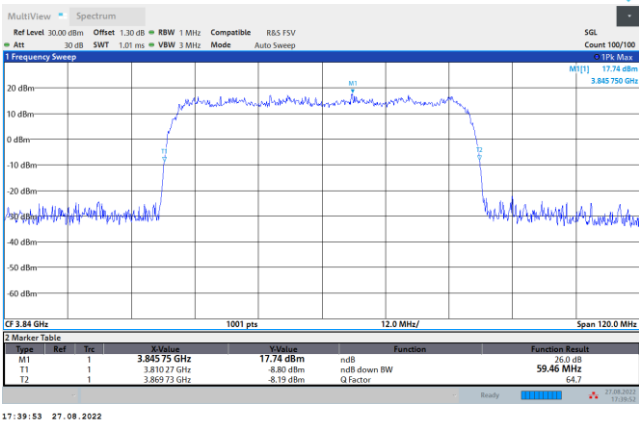




FR1 n77 / 60MHz / Middle Channel / 26dB BW

QPSK

16QAM



64QAM

256QAM

