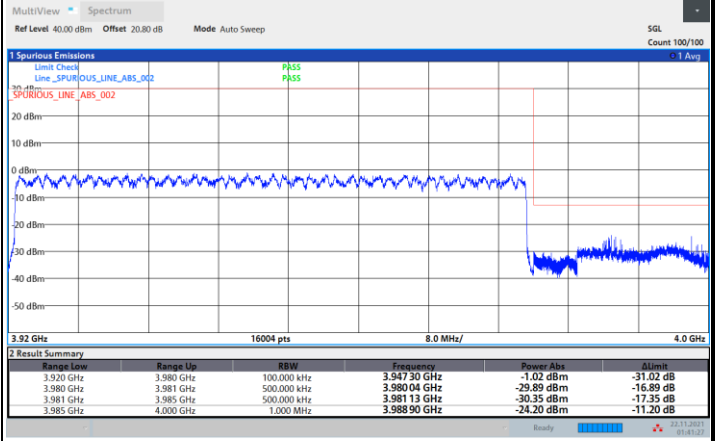
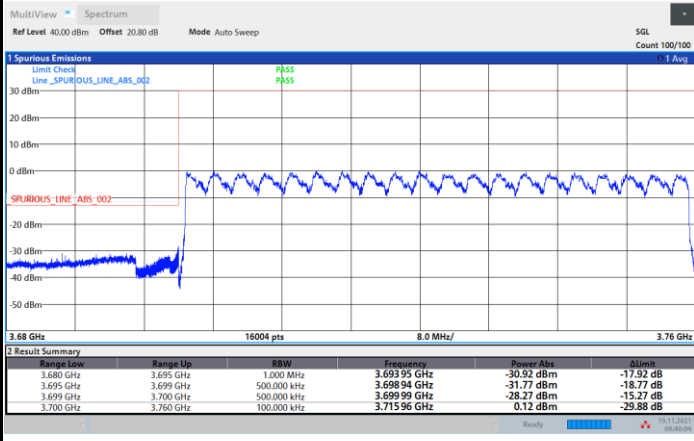




FR1 n77 / 60MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

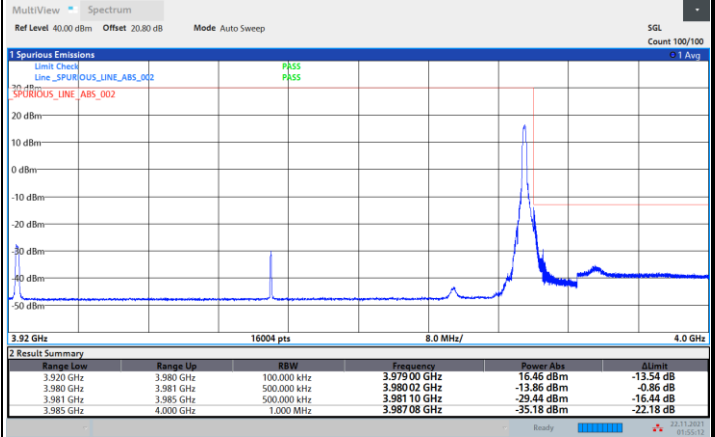
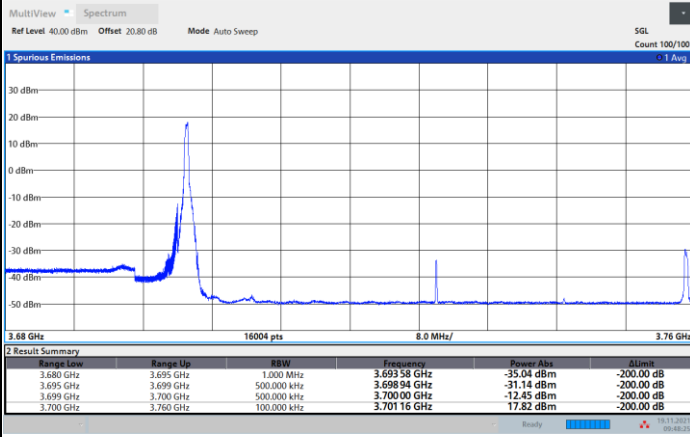




FR1 n77 / 60MHz / DFT-S OFDM / 256QAM

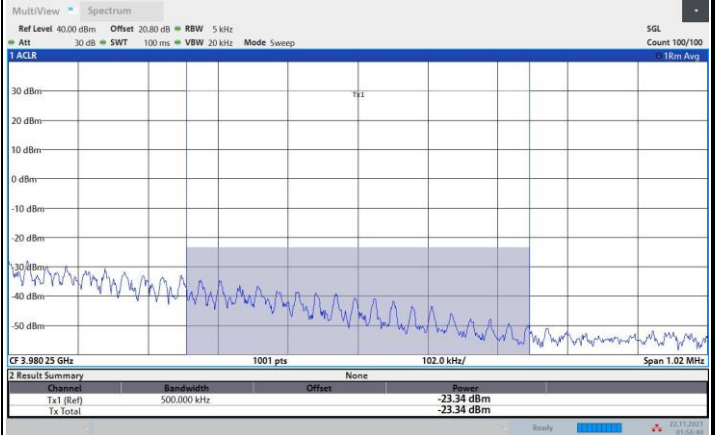
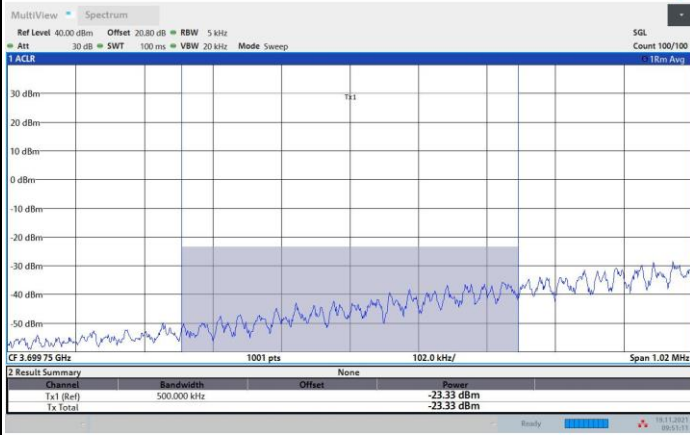
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -23.33dBm (PASS)

Channel power -13dBm > -23.34dBm (PASS)

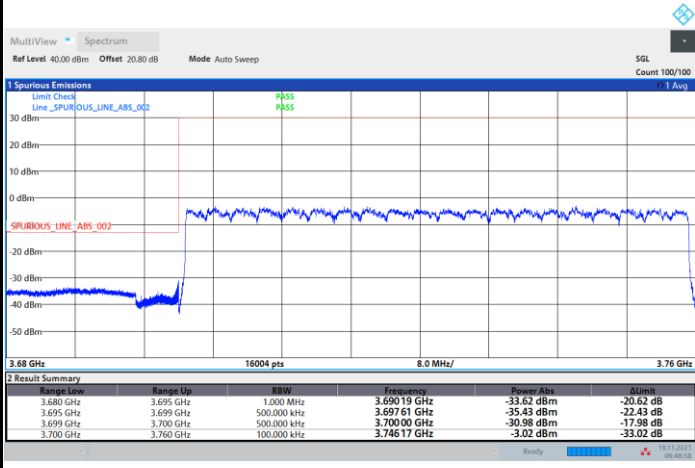




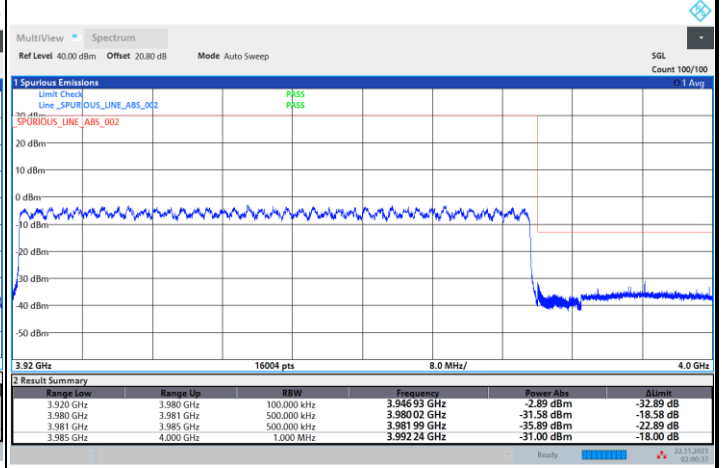
FR1 n77 / 60MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

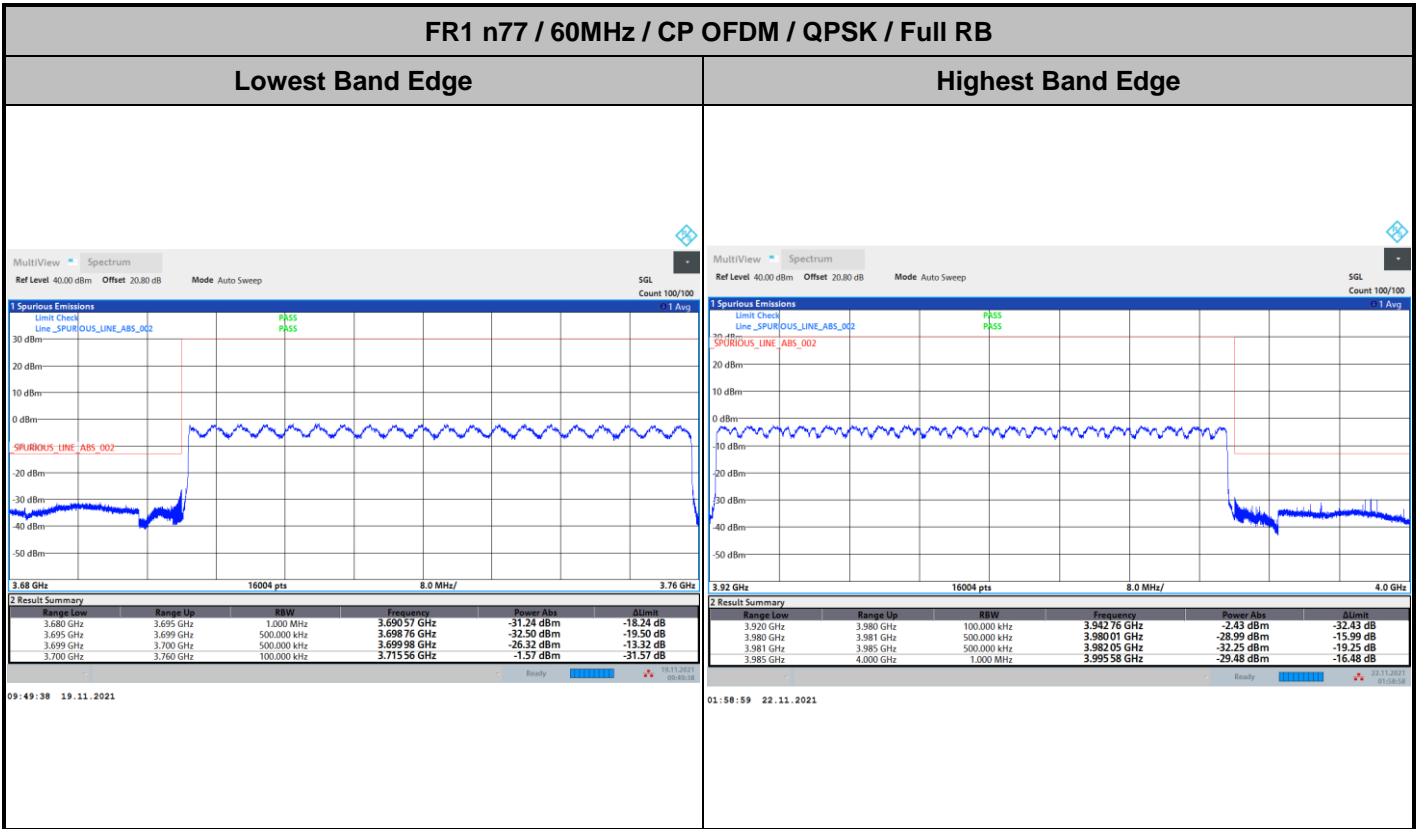
Highest Band Edge / Full RB



09:48:58 19.11.2021



02:00:37 22.11.2021

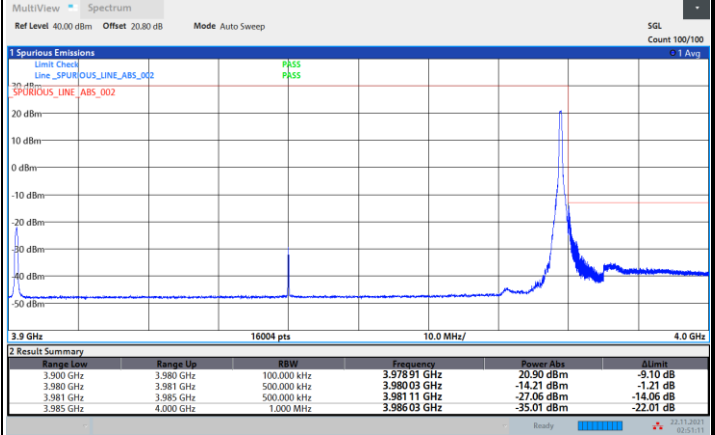
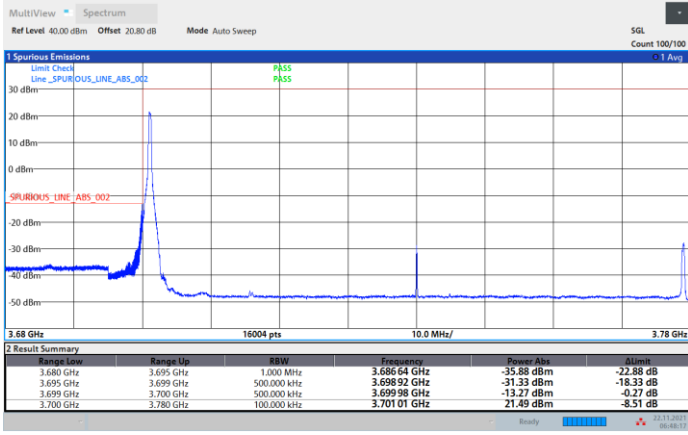




FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

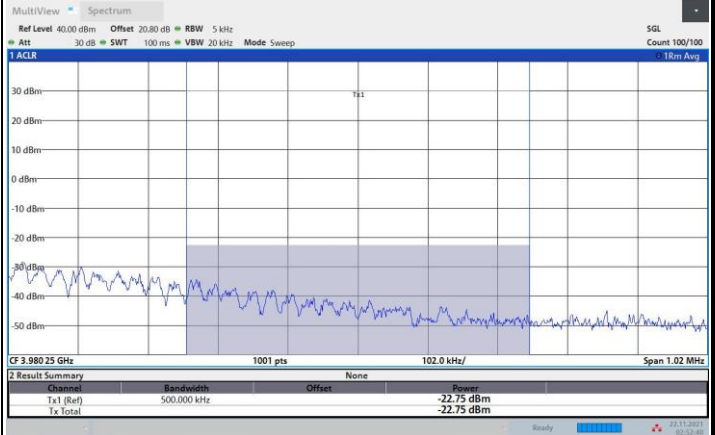
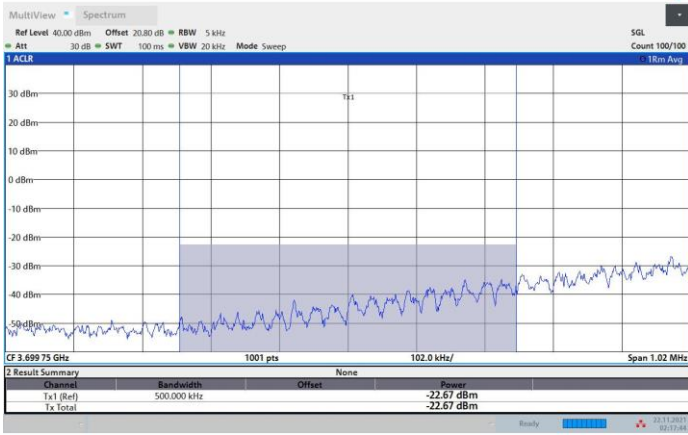
Lowest Band Edge / 1RB0

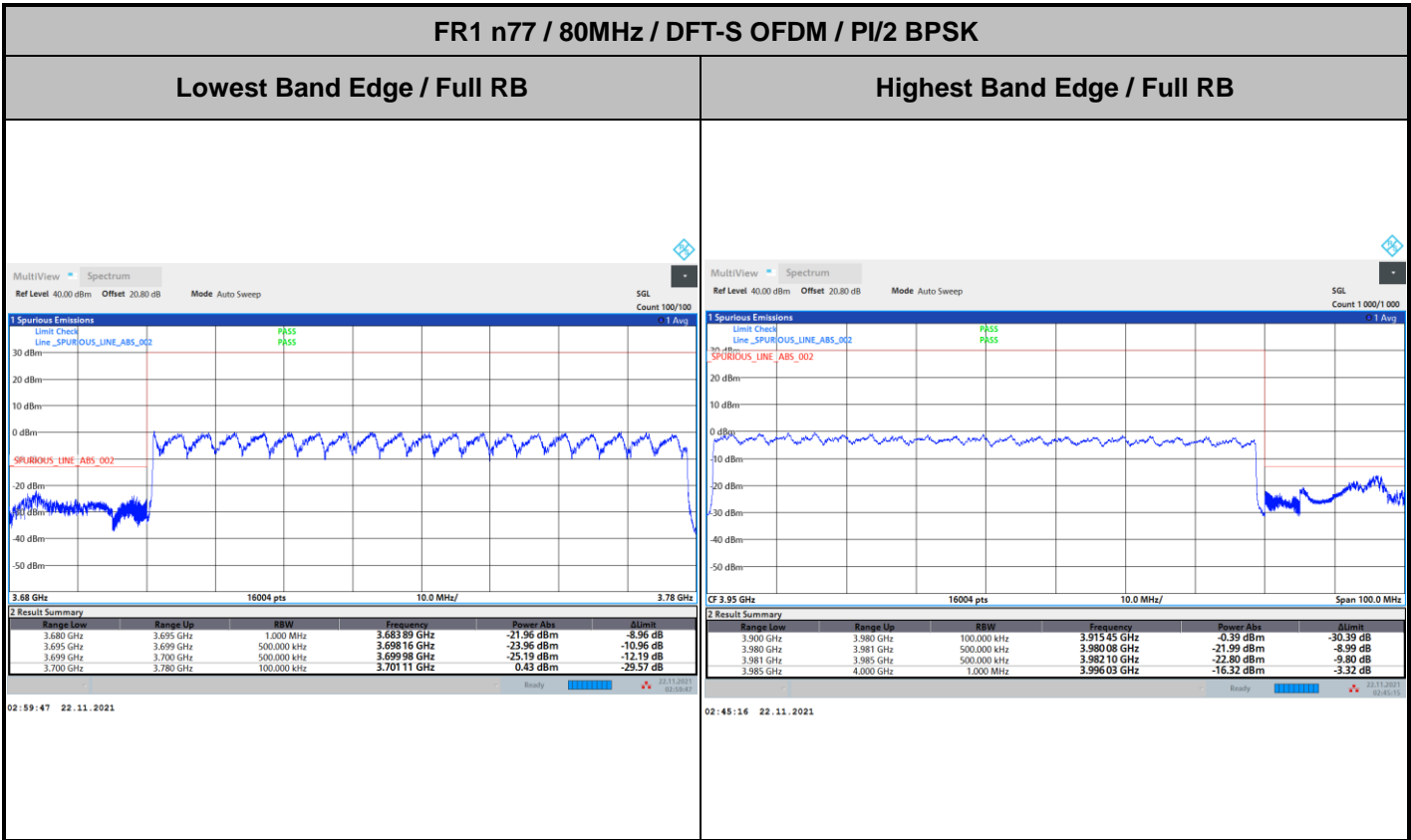
Highest Band Edge / 1RBmax



Channel power -13dBm > -22.67dBm (PASS)

Channel power -13dBm > -22.75dBm (PASS)



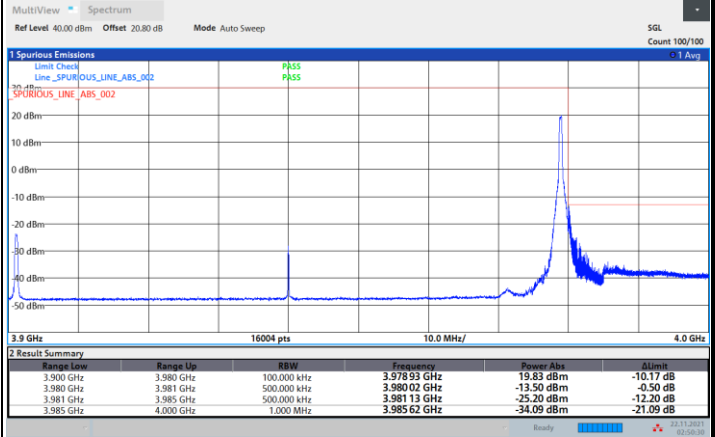
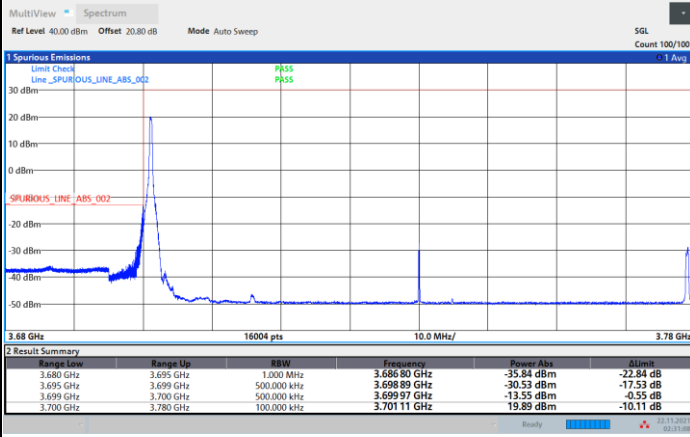




FR1 n77 / 80MHz / DFT-S OFDM / QPSK

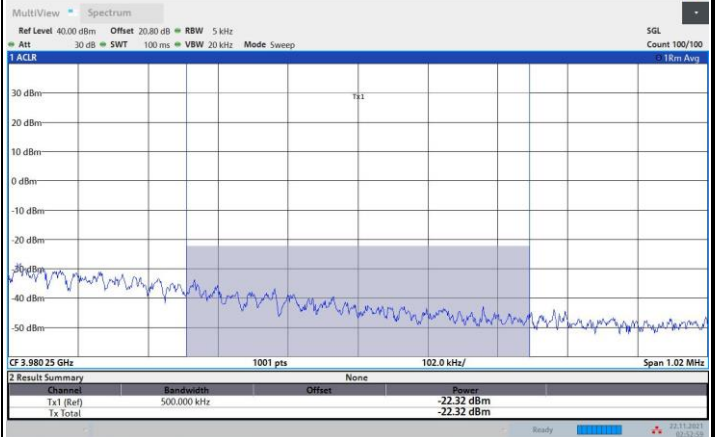
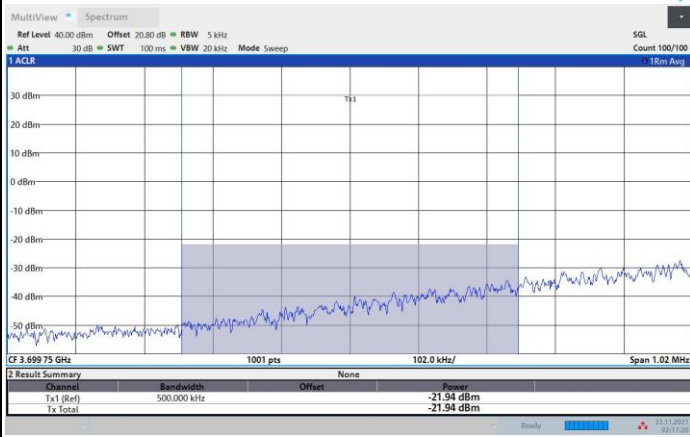
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -21.94dBm (PASS)

Channel power -13dBm > -22.32dBm (PASS)

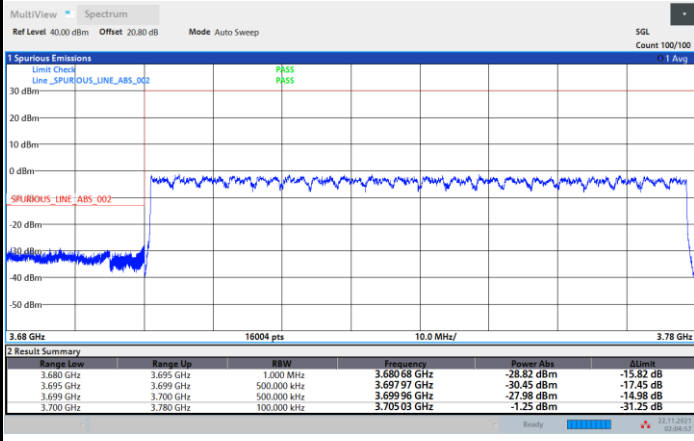




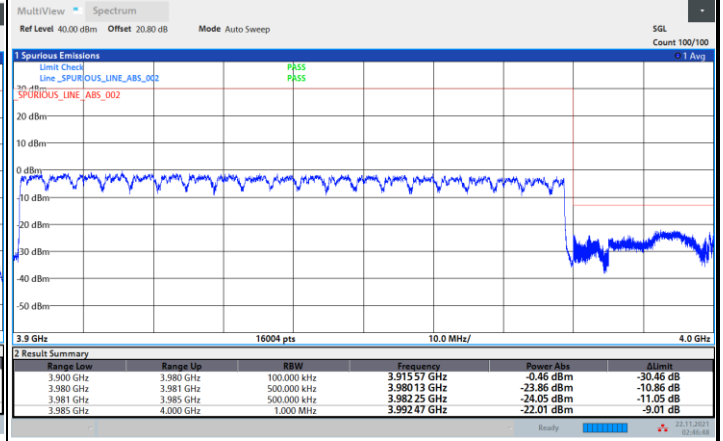
FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:04:58 22.11.2021



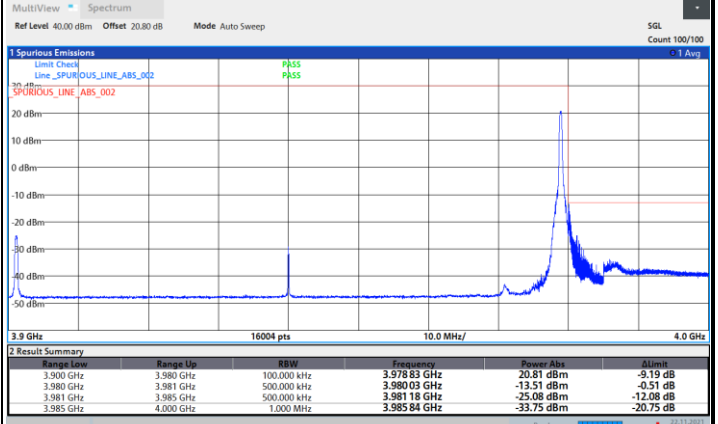
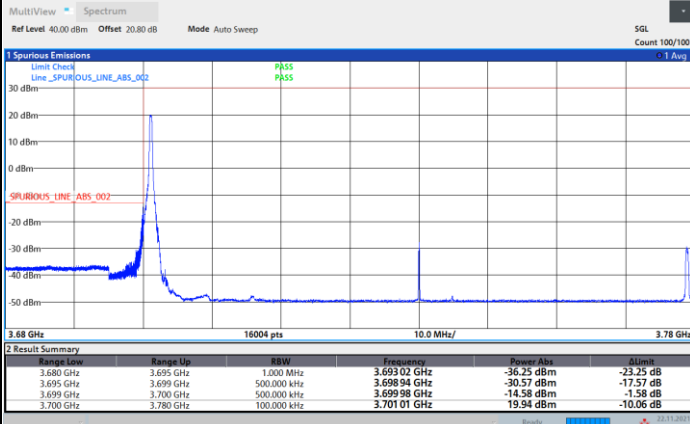
02:46:49 22.11.2021



FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

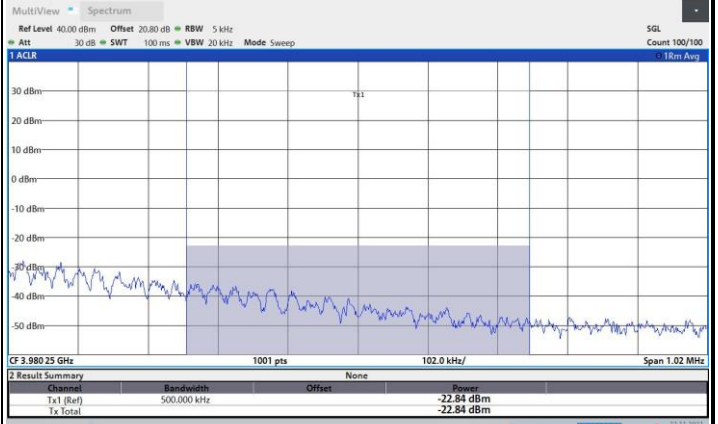
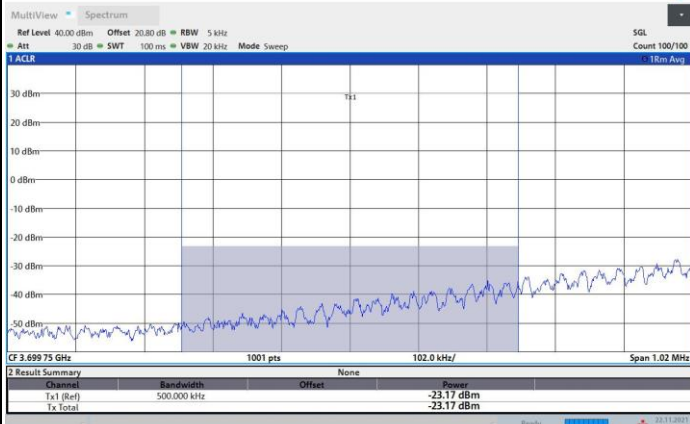
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -23.17dBm (PASS)

Channel power -13dBm > -22.84dBm (PASS)

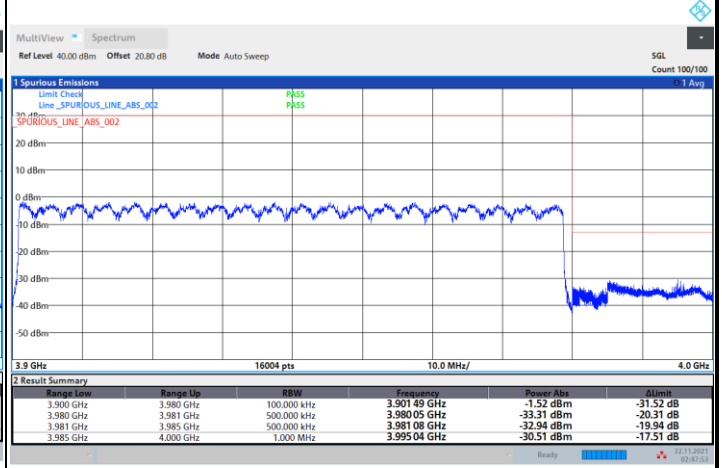
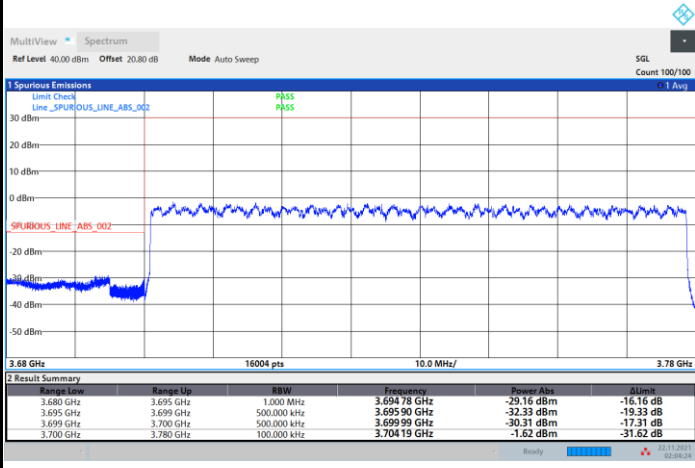




FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

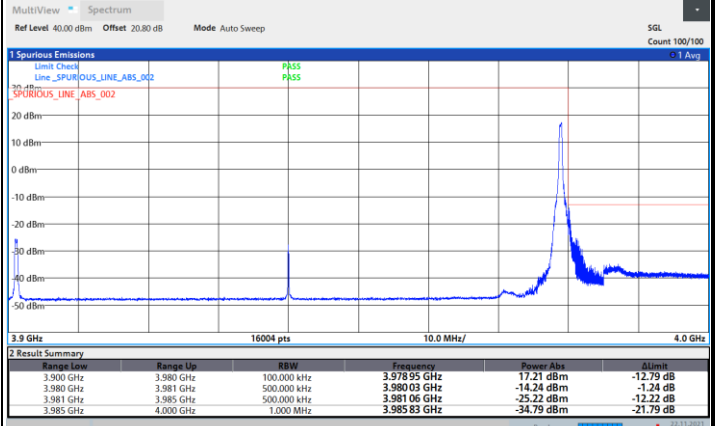
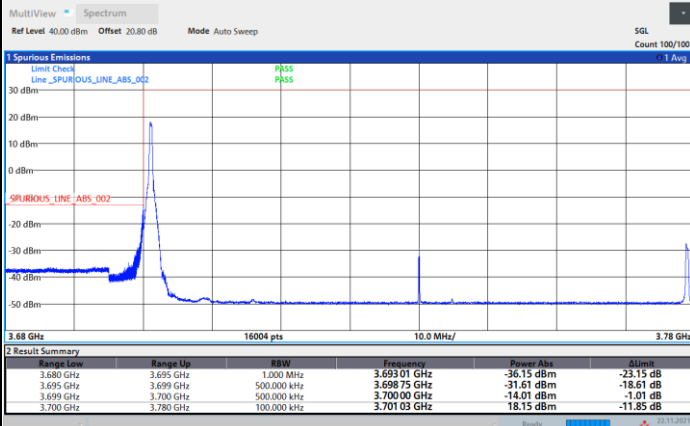




FR1 n77 / 80MHz / DFT-S OFDM / 64QAM

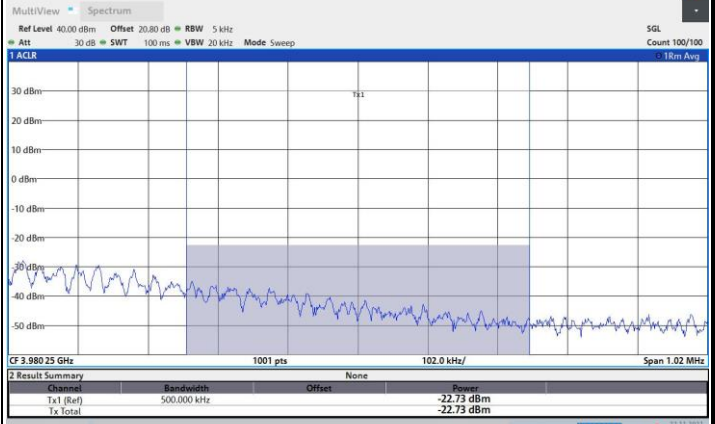
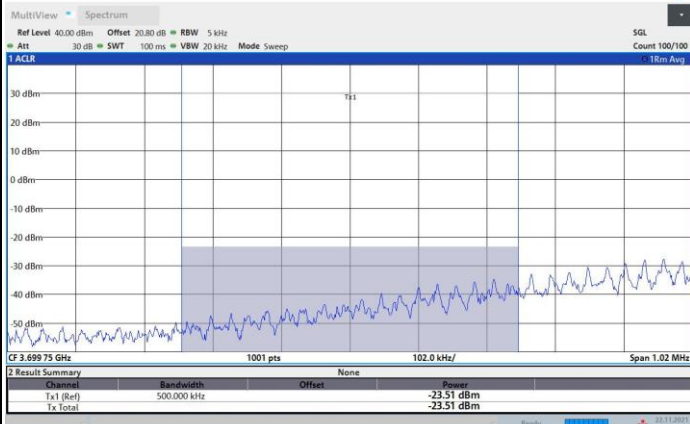
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -23.51dBm (PASS)

Channel power -13dBm > -22.73dBm (PASS)

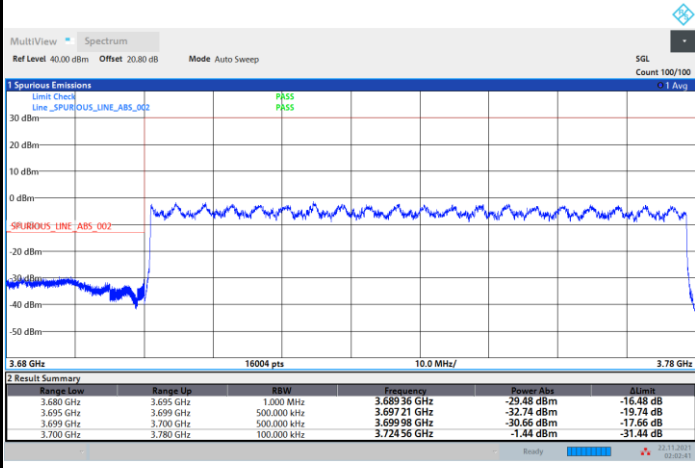




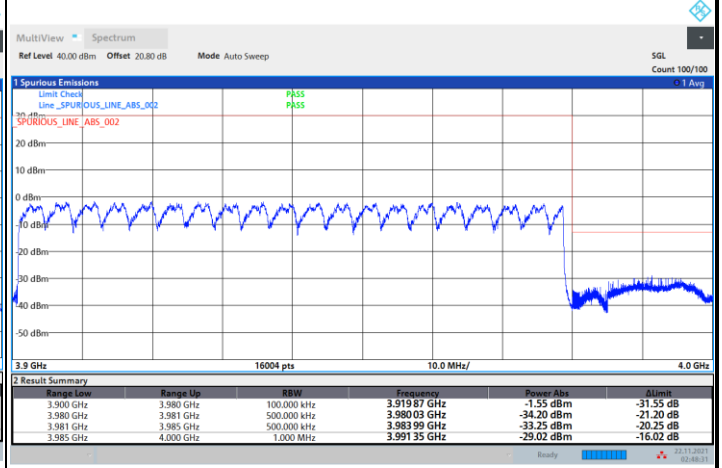
FR1 n77 / 80MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:02:41 22.11.2021



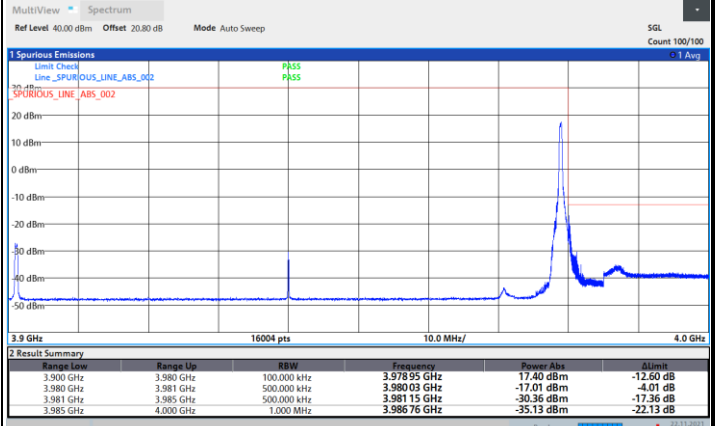
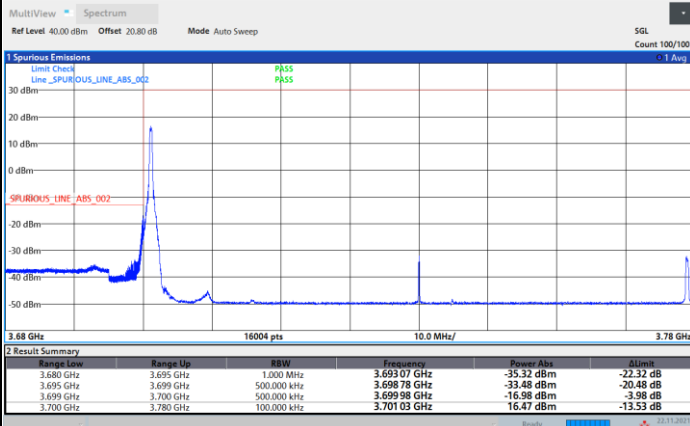
02:48:31 22.11.2021



FR1 n77 / 80MHz / DFT-S OFDM / 256QAM

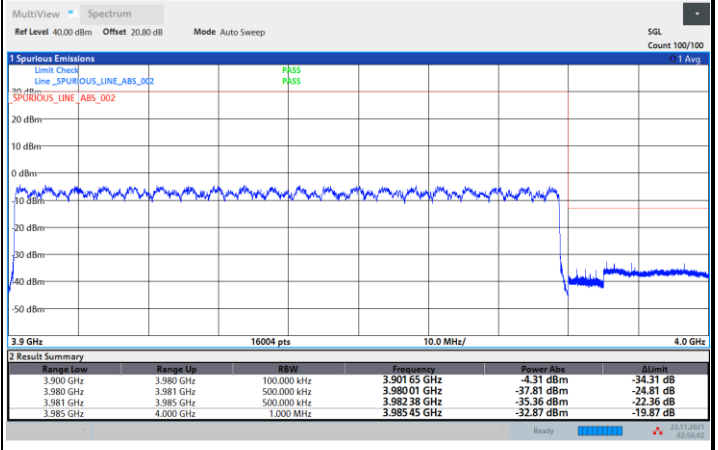
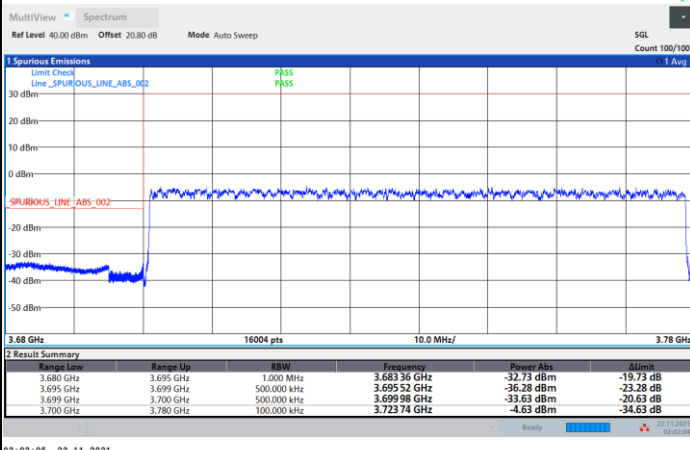
Lowest Band Edge / 1RB0

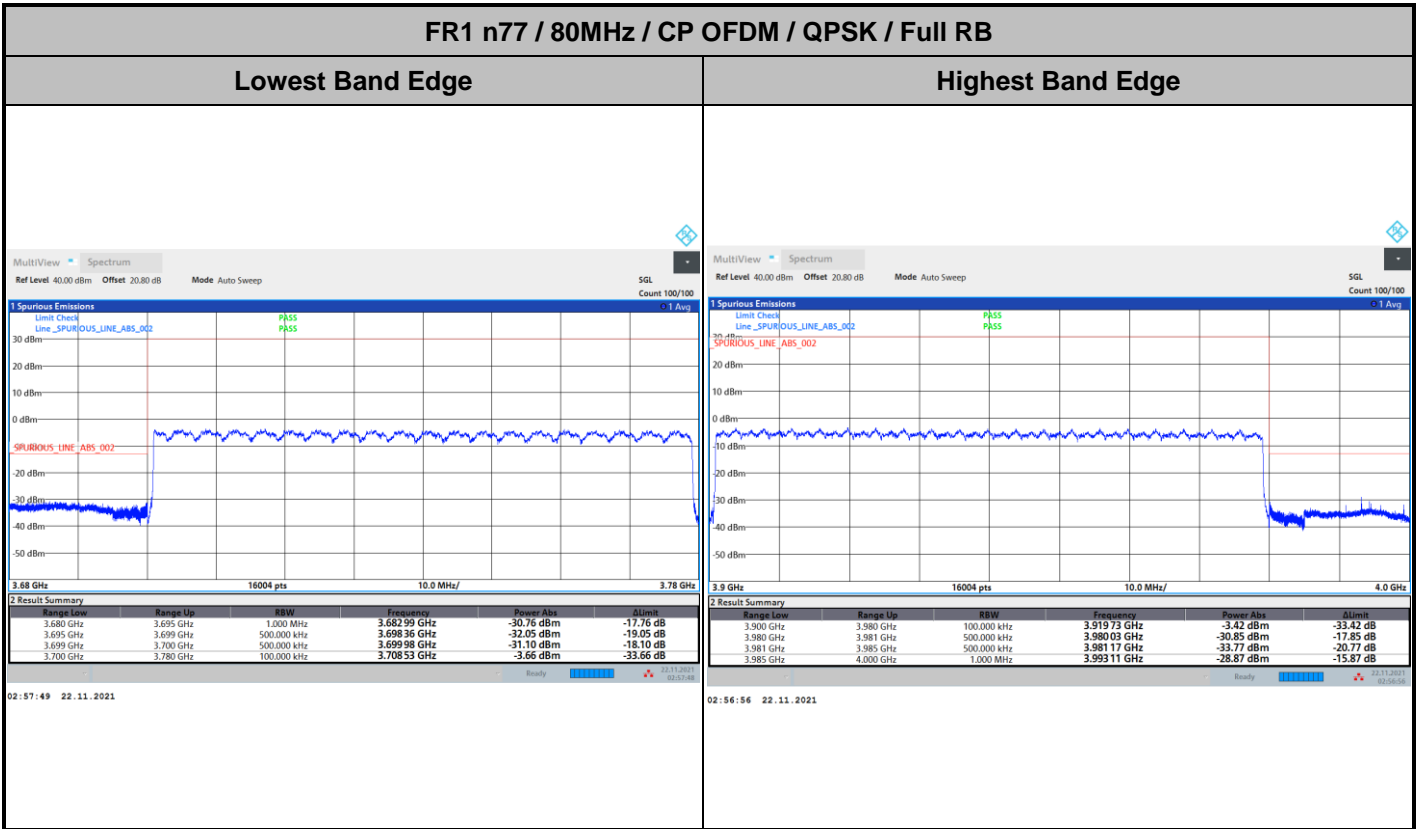
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB



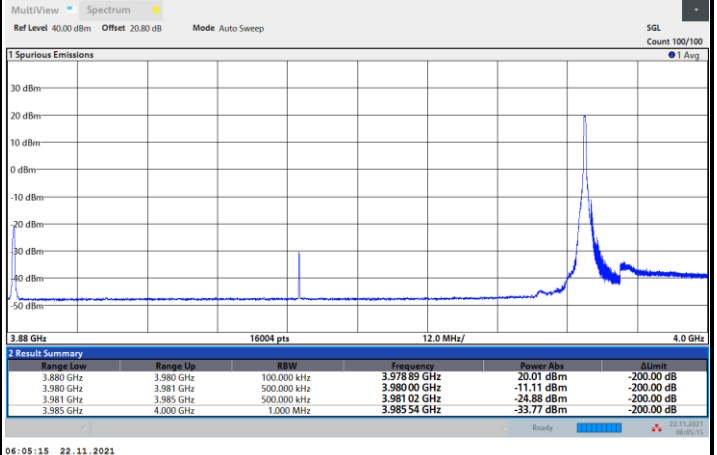
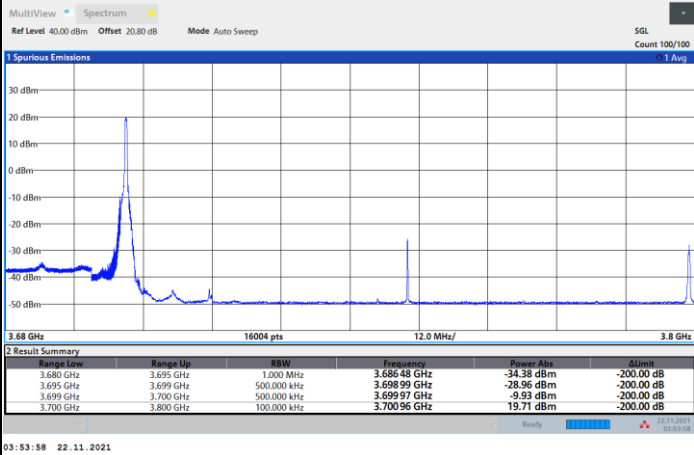




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

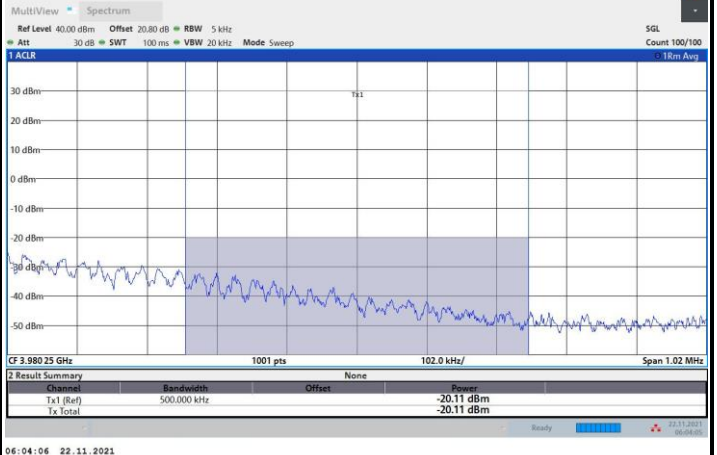
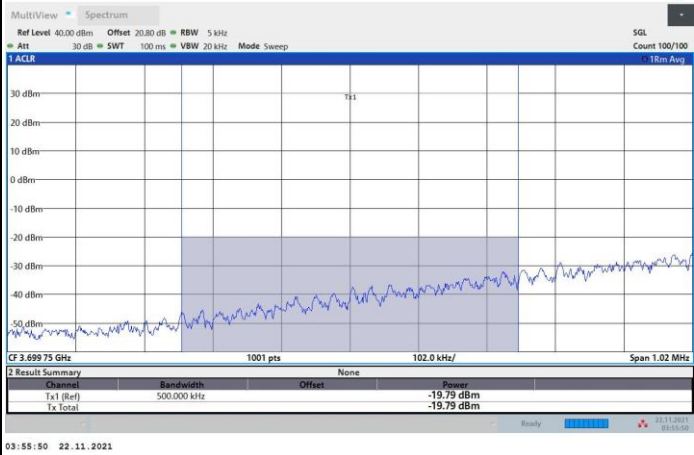
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -19.79dBm (PASS)

Channel power -13dBm > -20.11dBm (PASS)

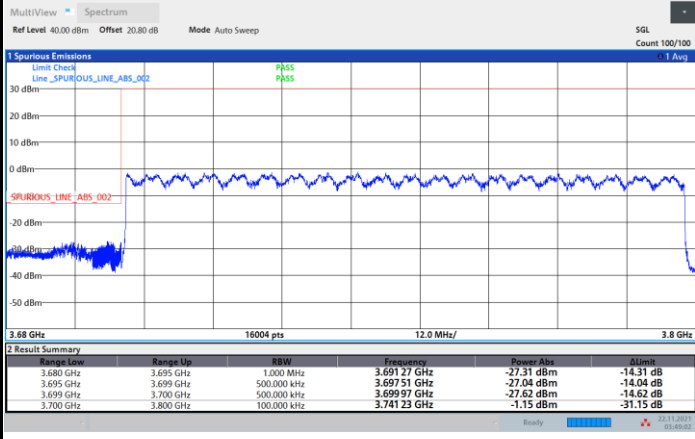




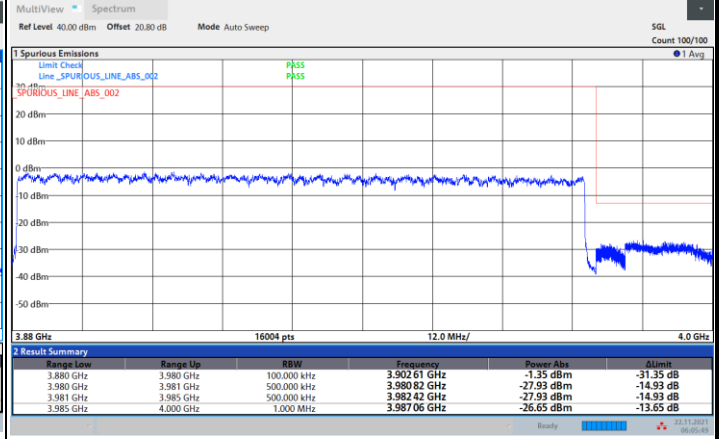
FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:49:02 22.11.2021



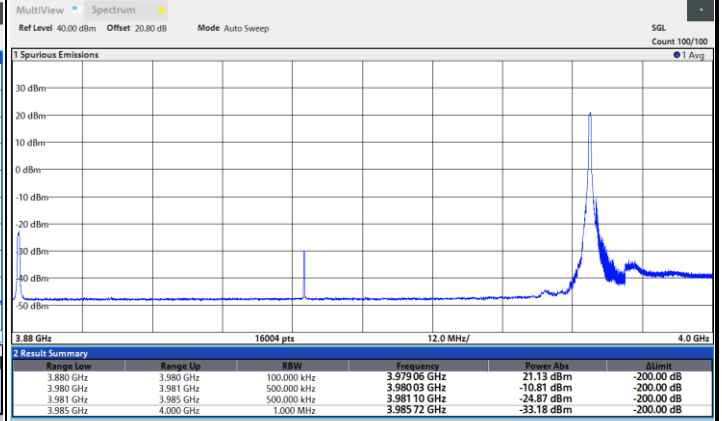
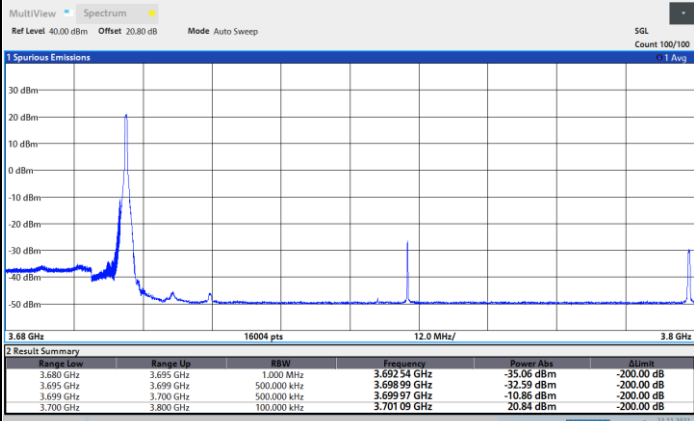
06:05:50 22.11.2021



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

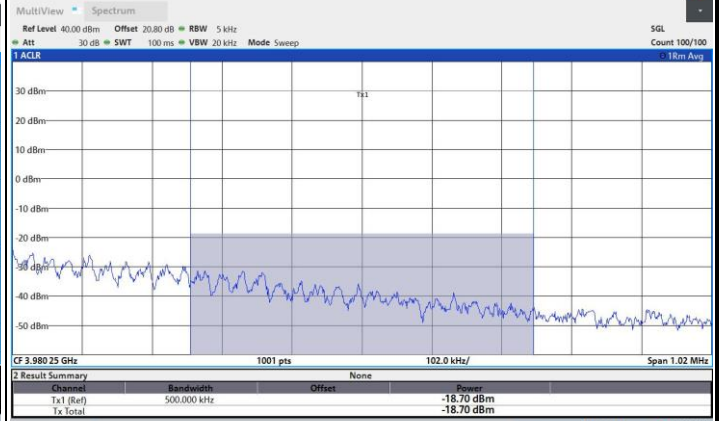
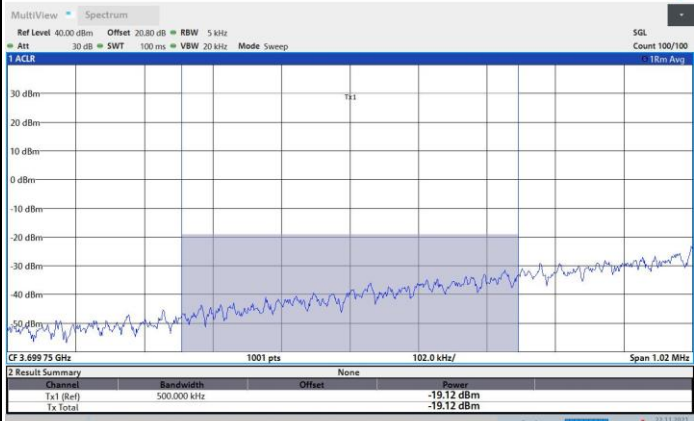


03:53:20 22.11.2021

05:59:22 22.11.2021

Channel power -13dBm > -19.12dBm (PASS)

Channel power -13dBm > -18.70dBm (PASS)



03:56:08 22.11.2021

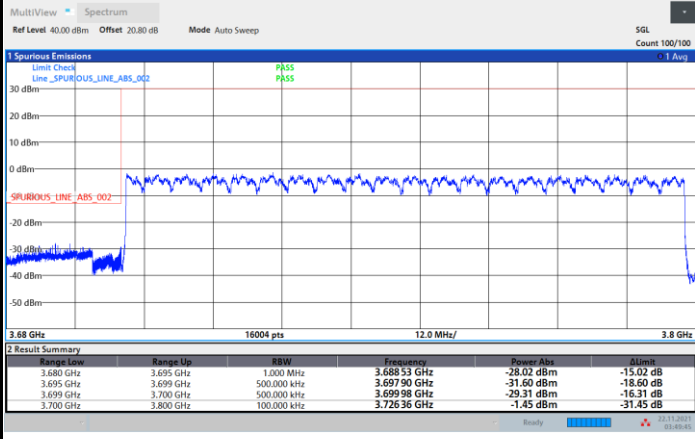
06:03:31 22.11.2021



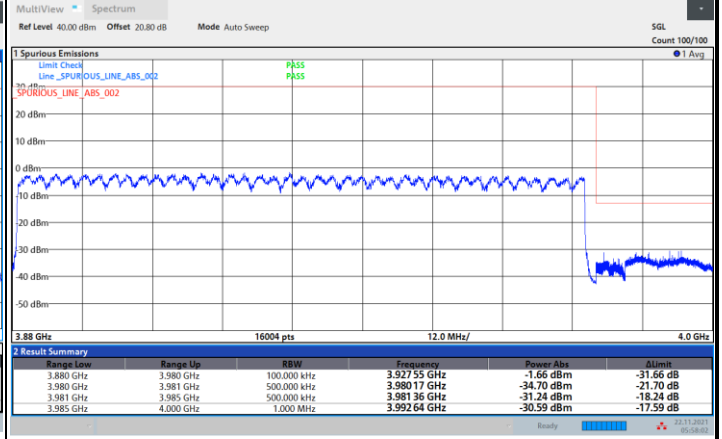
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:49:45 22.11.2021



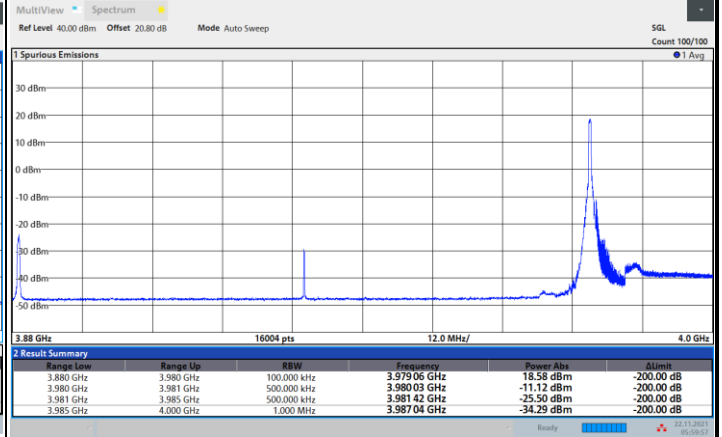
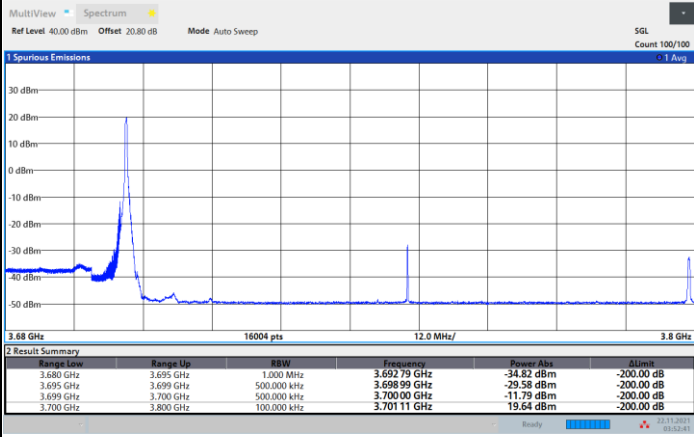
05:58:02 22.11.2021



FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

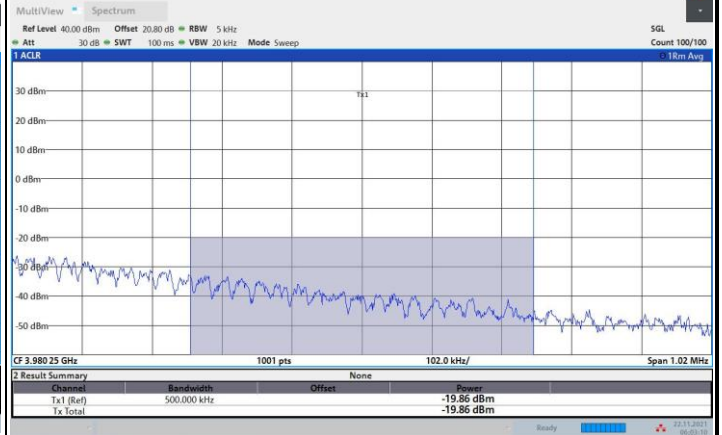
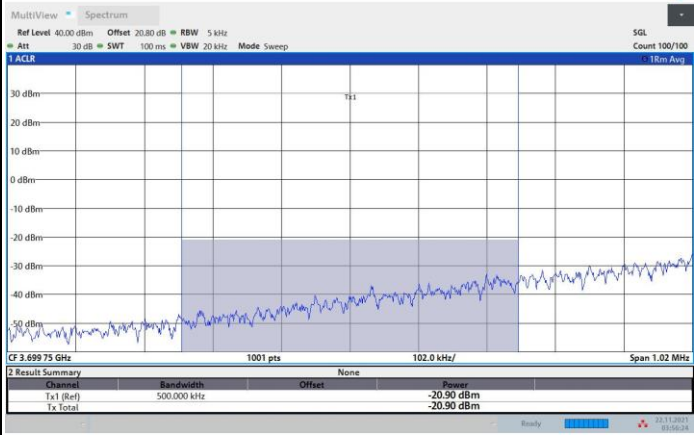


03:52:42 22.11.2021

05:59:58 22.11.2021

Channel power -13dBm > -20.90dBm (PASS)

Channel power -13dBm > -19.86dBm (PASS)



03:56:25 22.11.2021

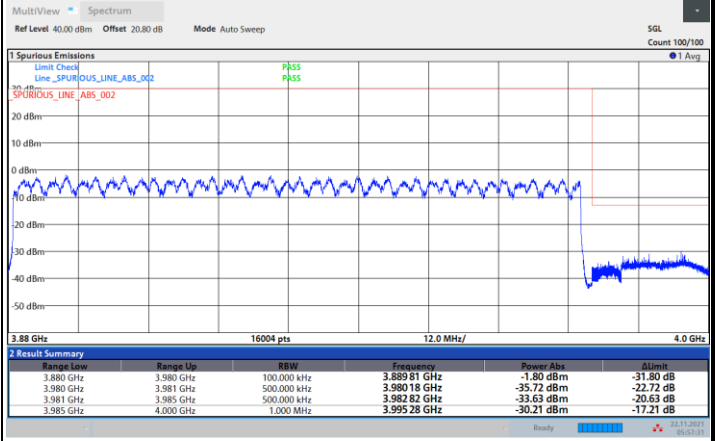
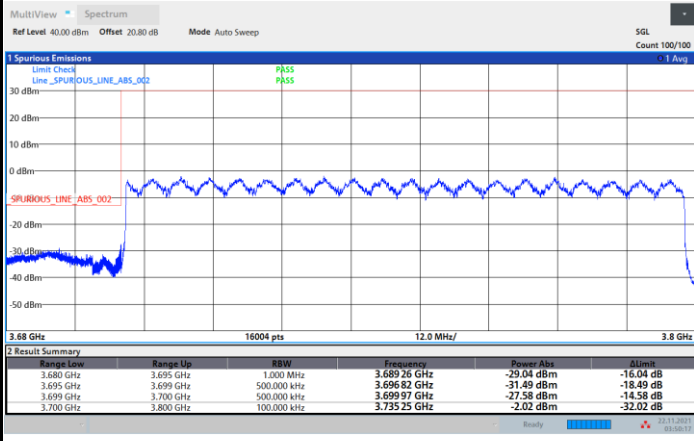
06:03:12 22.11.2021



FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

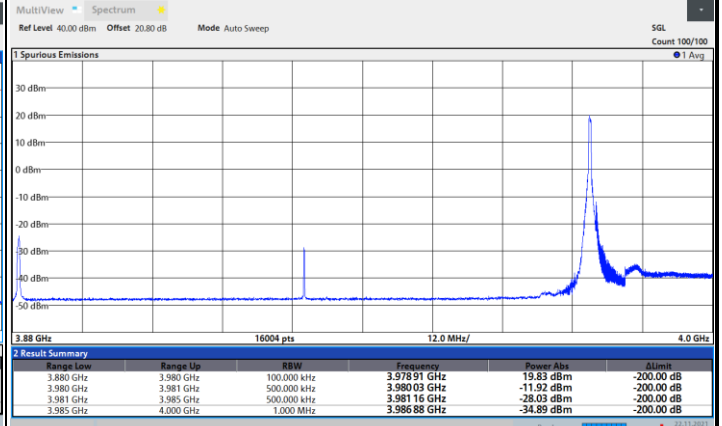
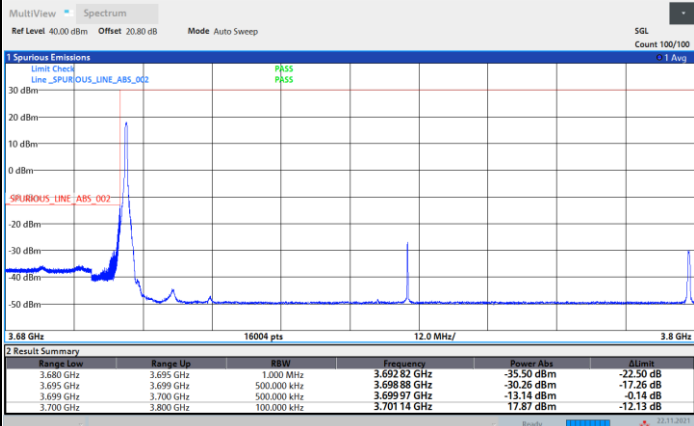




FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

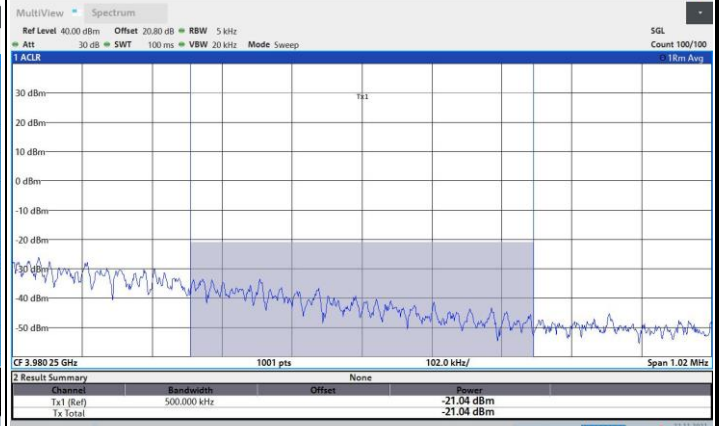
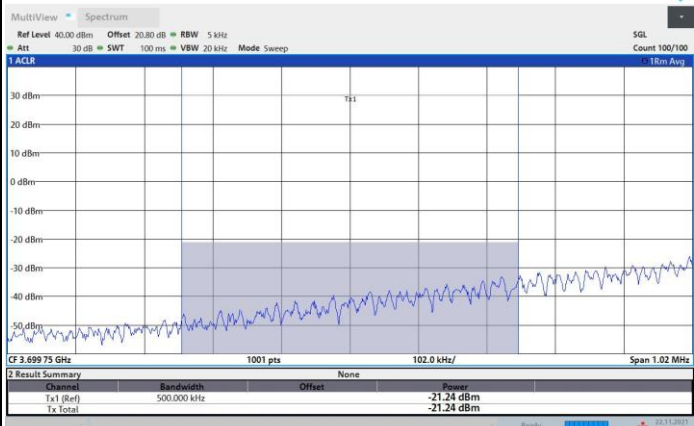
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -21.24dBm (PASS)

Channel power -13dBm > -21.04dBm (PASS)

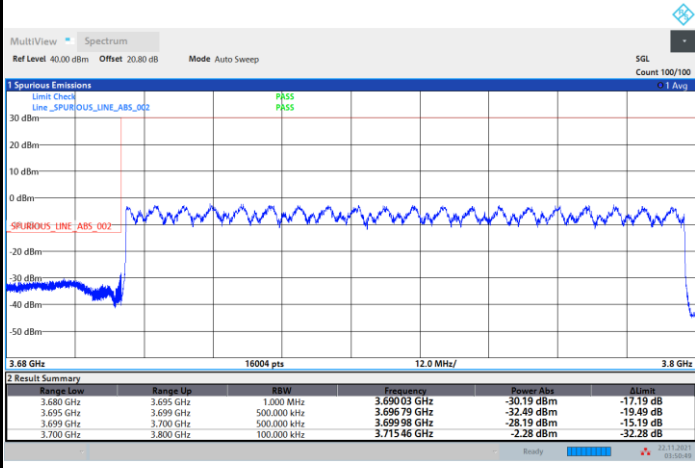




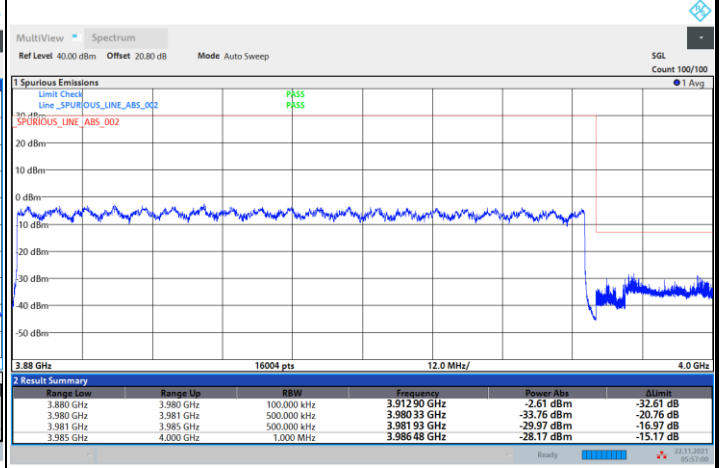
FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:50:50 22.11.2021



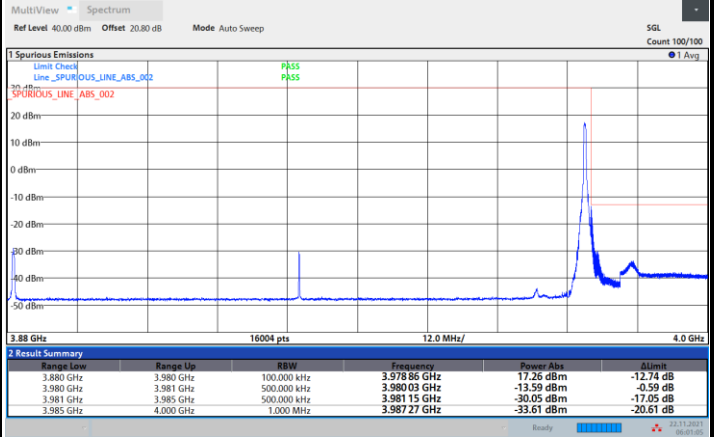
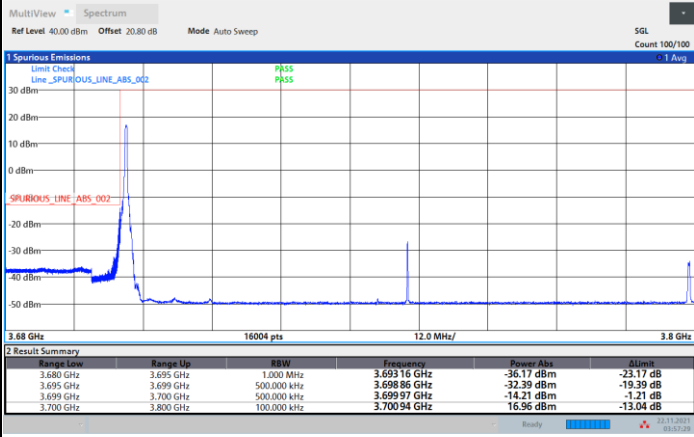
05:57:00 22.11.2021



FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

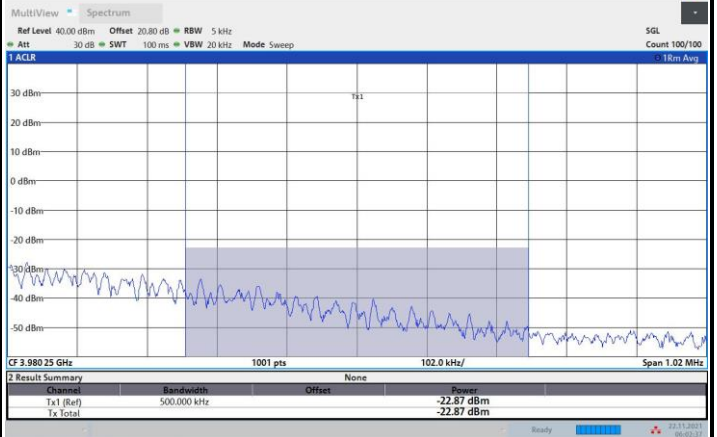
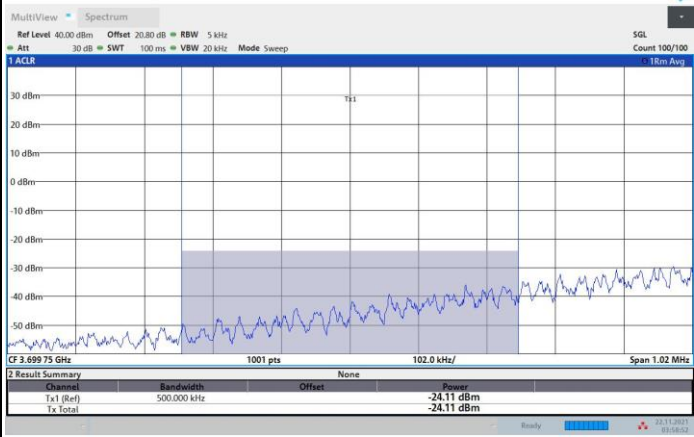
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -24.11dBm (PASS)

Channel power -13dBm > -22.87dBm (PASS)

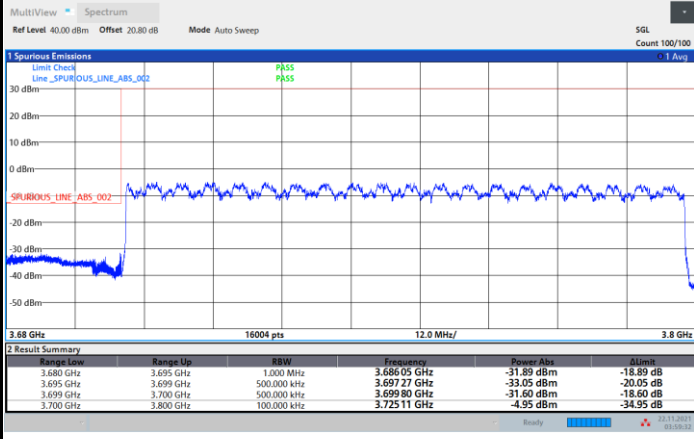




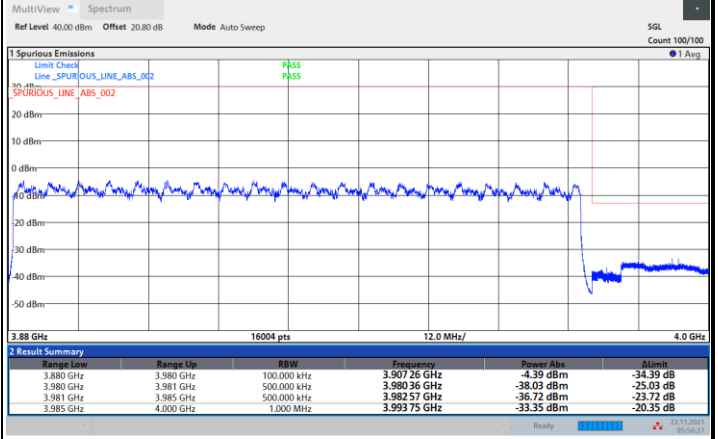
FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / Full RB

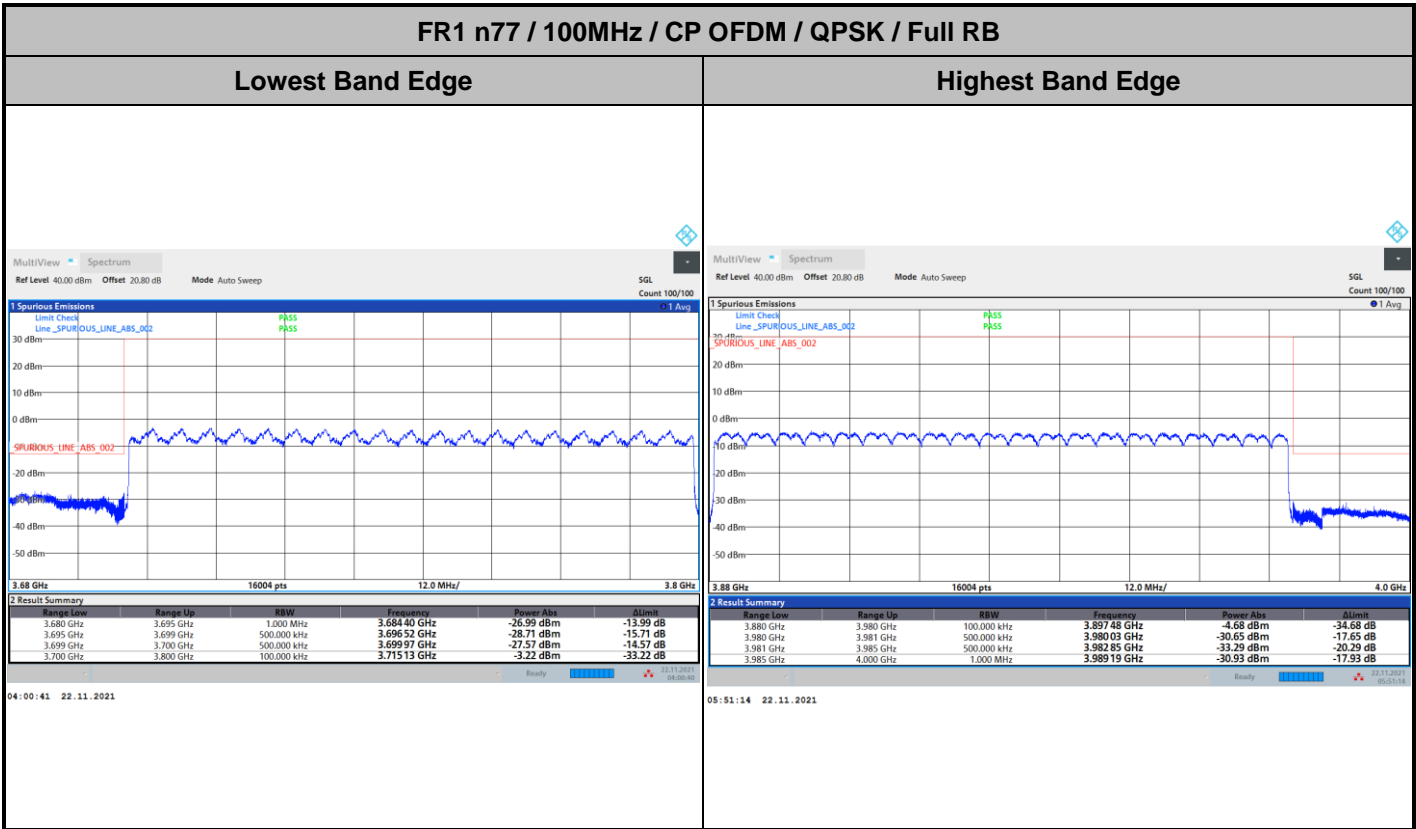
Highest Band Edge / Full RB



03:59:32 22.11.2021



05:56:28 22.11.2021



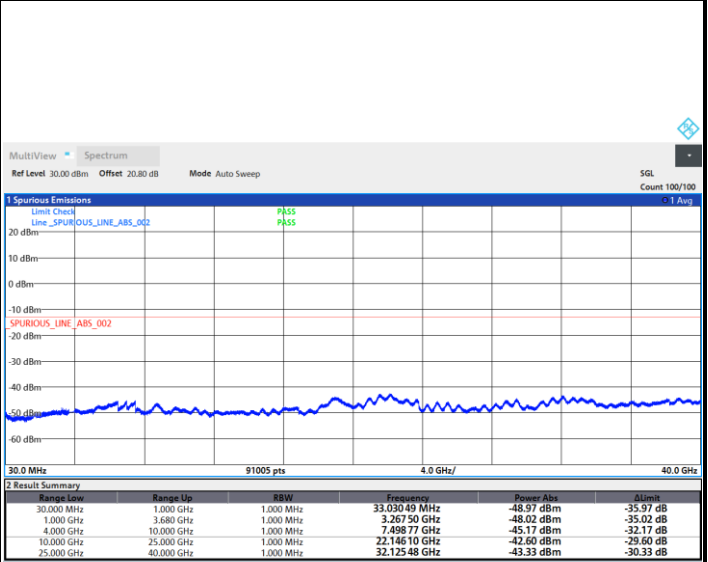
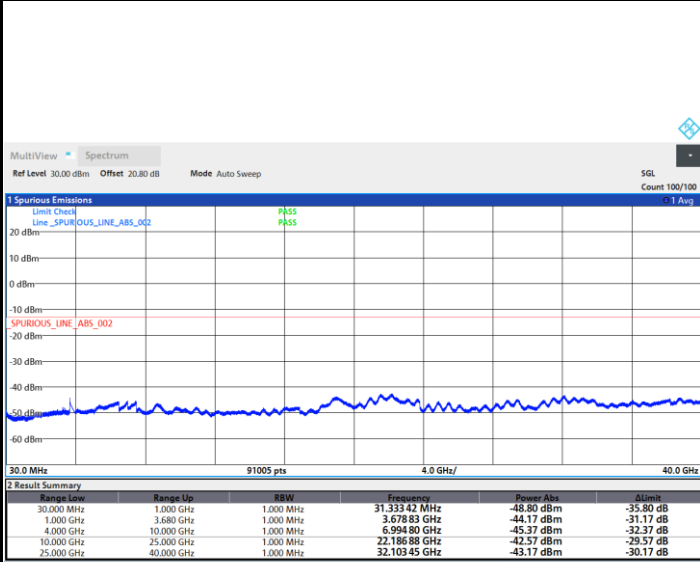


Conducted Spurious Emission

FR1 n77 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

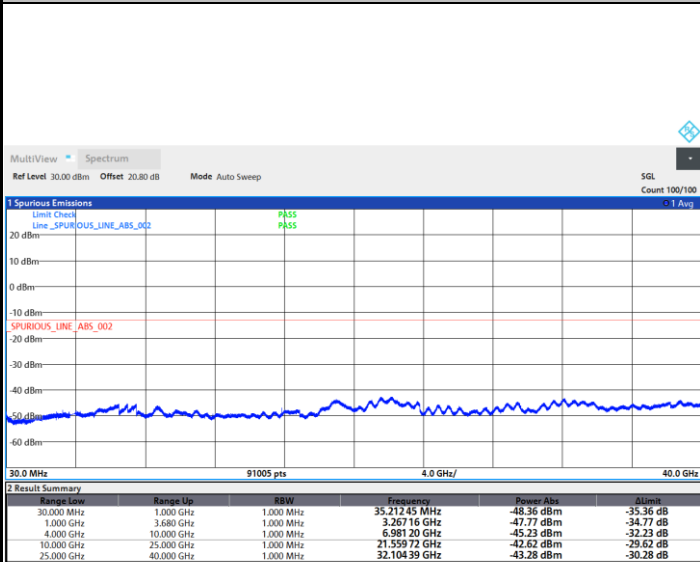
Middle Channel



06:45:09 19.11.2021

07:02:40 19.11.2021

Highest Channel



07:00:59 19.11.2021



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0049	

Note:

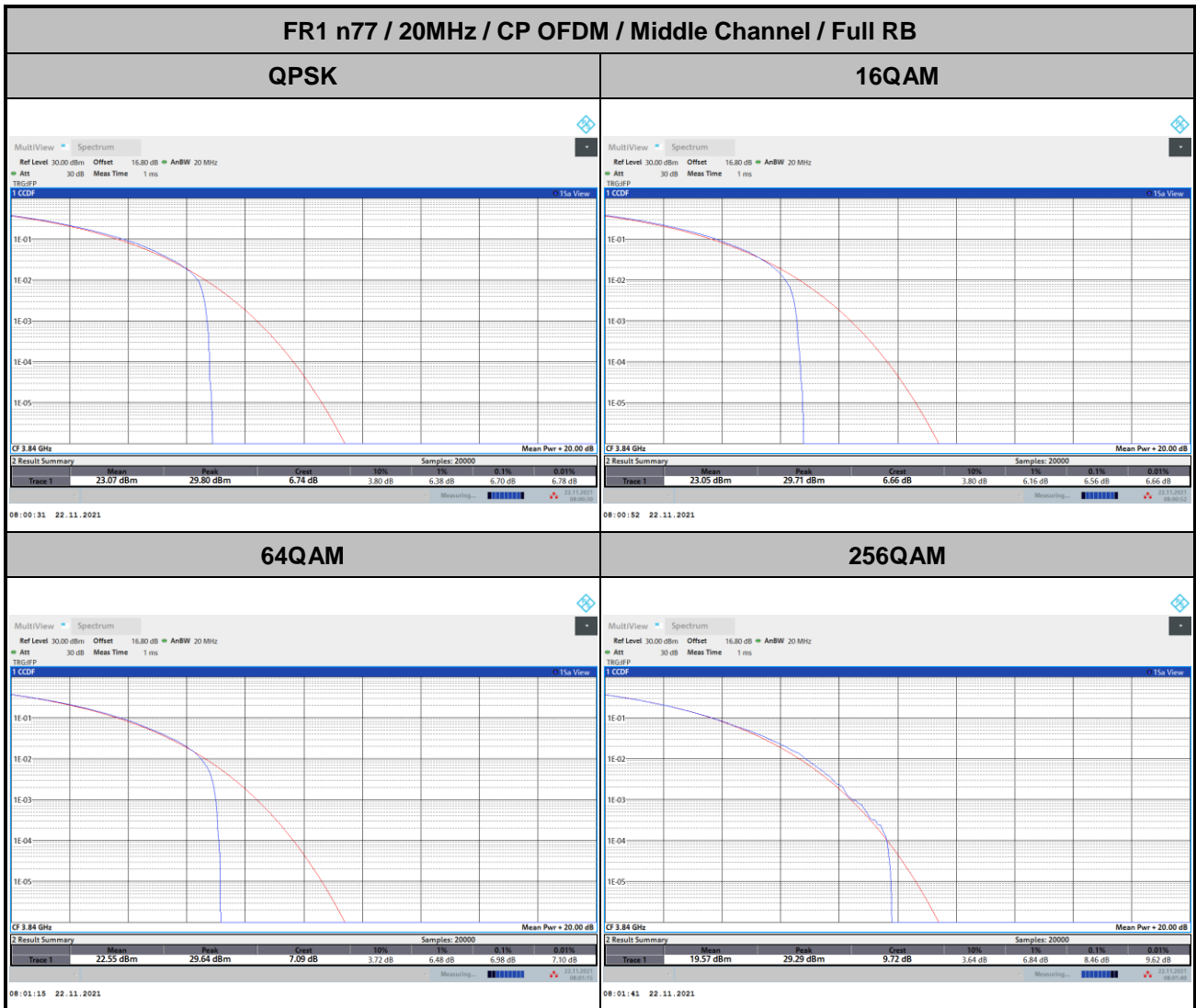
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 0>

Peak-to-Average Ratio

Mode	FR1 n77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.70	6.56	6.98	8.46	PASS





26dB Bandwidth

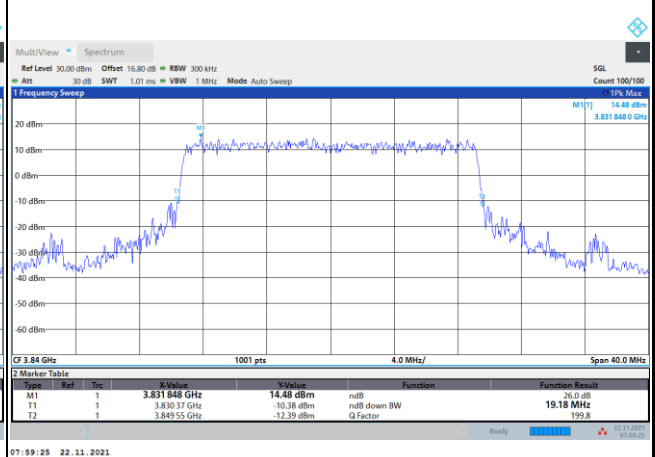
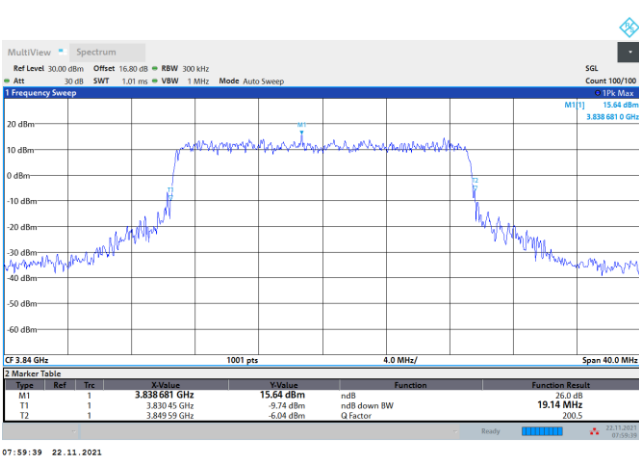
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.14	19.18	29.01	28.95	39.00	39.64	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.02	19.18	29.01	28.95	39.08	39.00	-	-
BW	60MHz		70MHz		80MHz		90MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	60.54	60.78	-	-	80.24	80.24	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	60.30	60.42	-	-	80.40	80.24	-	-
BW	100MHz							
Mod.	QPSK	16QAM						
Middle CH	100.50	100.90						
Mod.	64QAM	256QAM						
Middle CH	100.70	100.70						



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

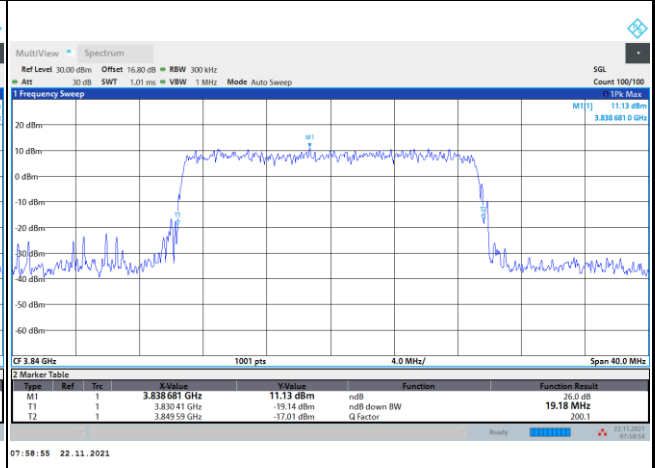
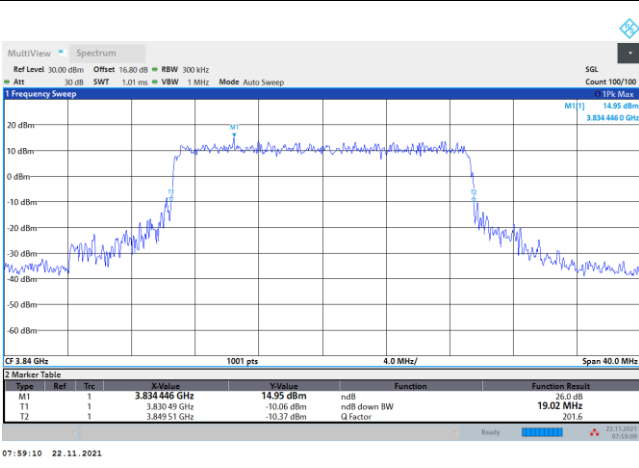
QPSK

16QAM



64QAM

256QAM

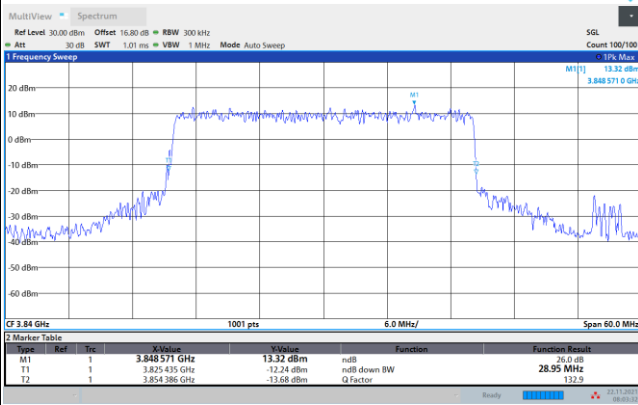
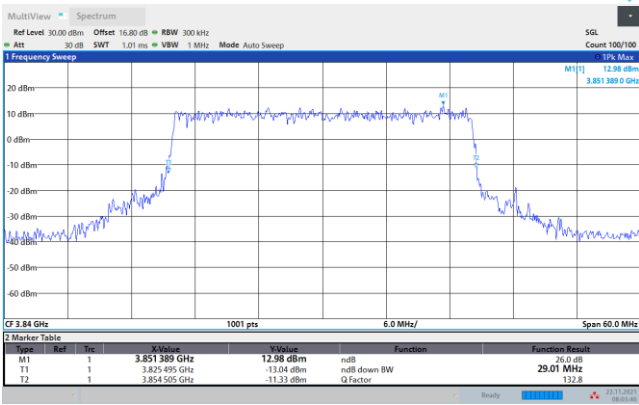




FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



64QAM

256QAM

