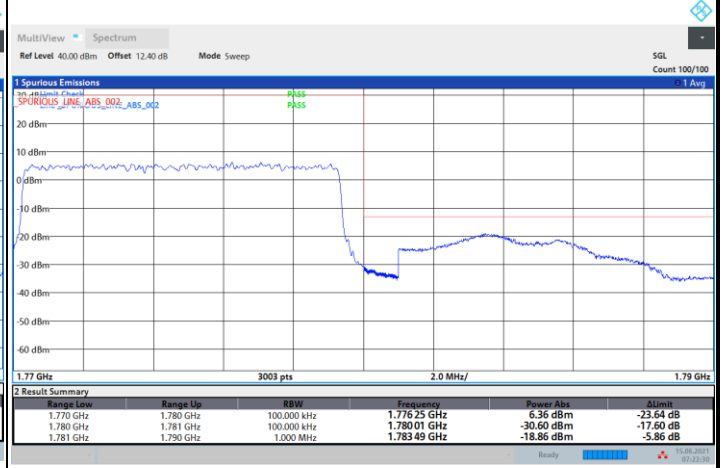
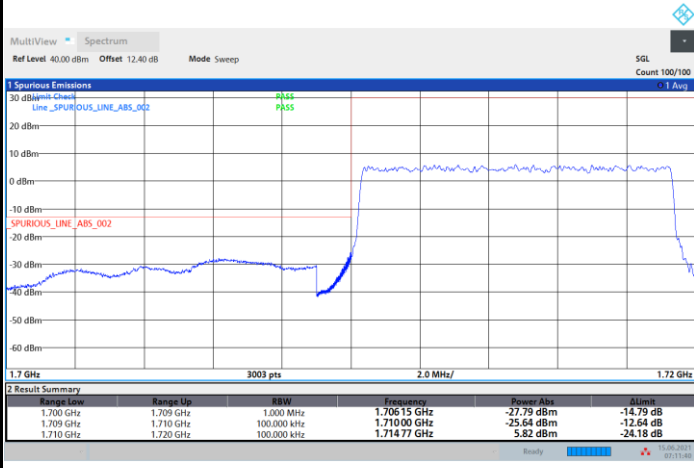




FR1 n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

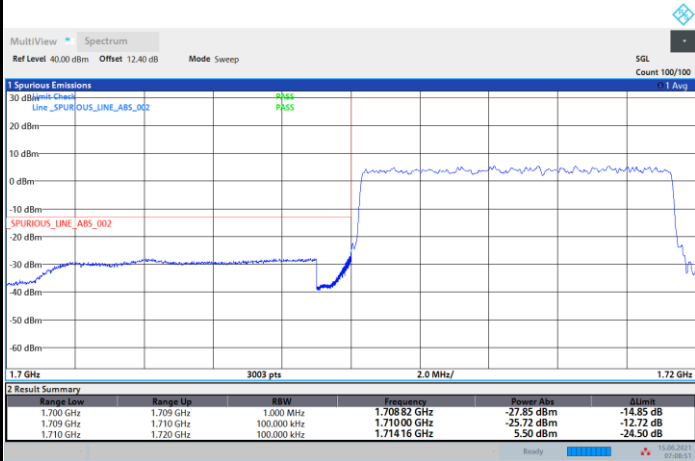




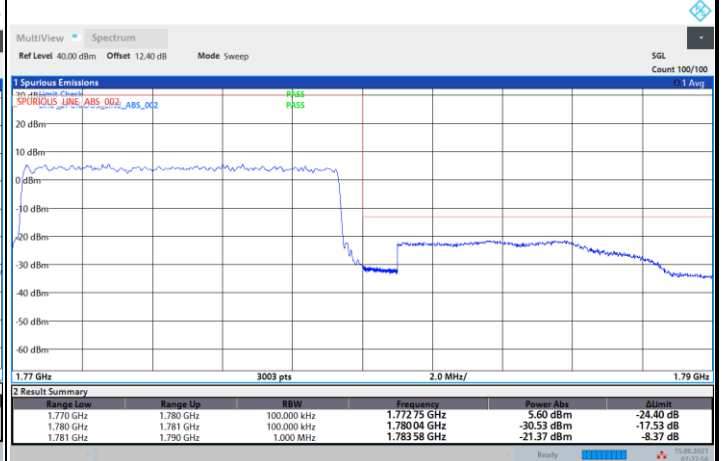
FR1 n66 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



07:08:51 15.06.2021



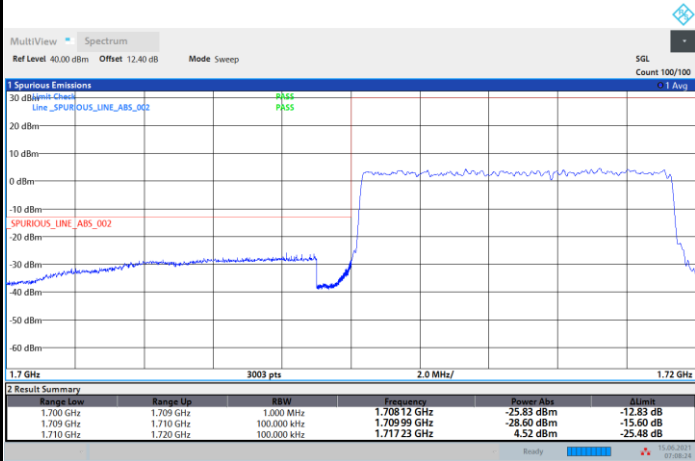
07:22:56 15.06.2021



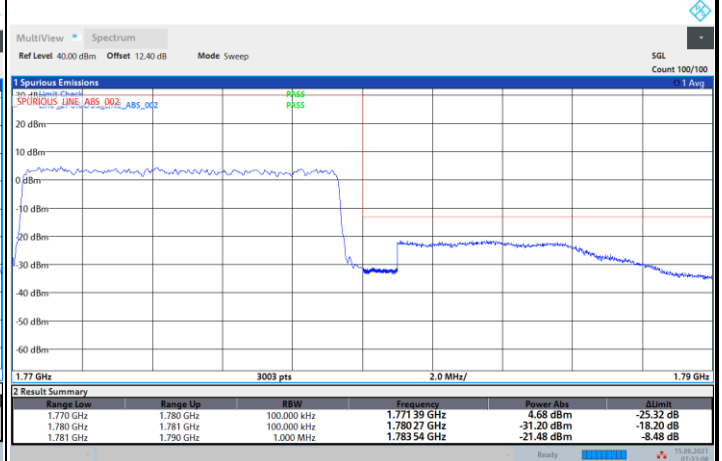
**FR1 n66 / 10MHz / DFT-s-OFDM / 16QAM**

**Lowest Band Edge / Full RB**

**Highest Band Edge / Full RB**



07:08:24 15.06.2021



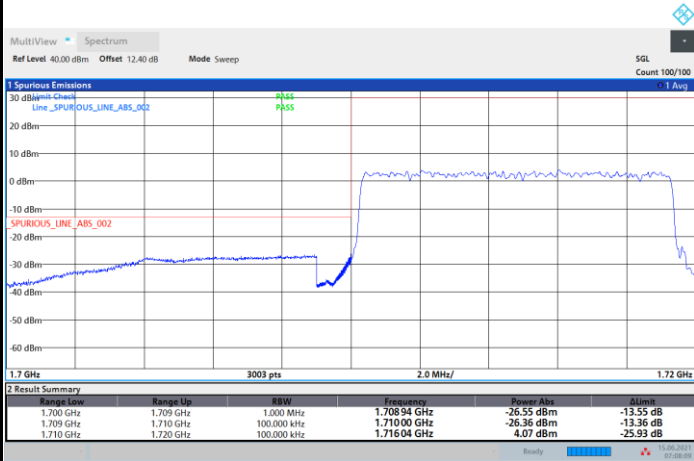
07:23:08 15.06.2021



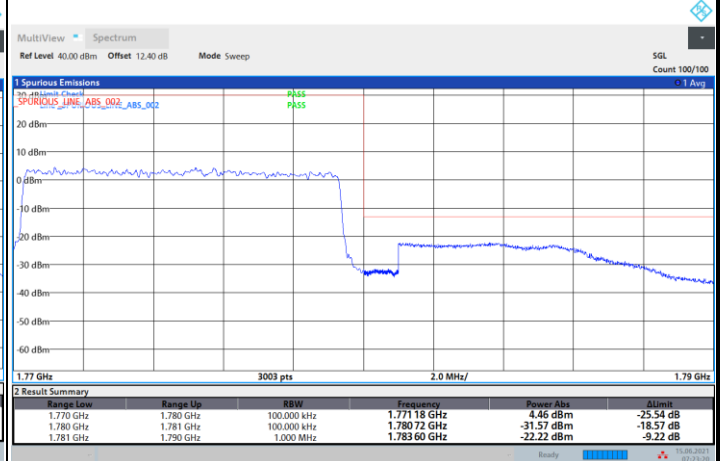
FR1 n66 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



07:08:10 15.06.2021



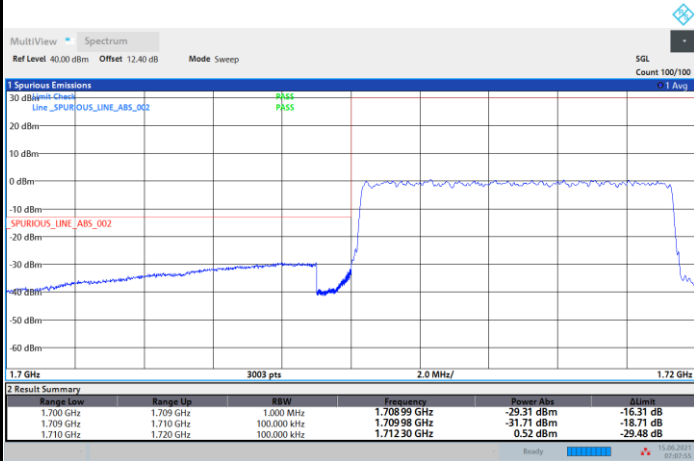
07:23:20 15.06.2021



FR1 n66 / 10MHz / DFT-s-OFDM / 256QAM

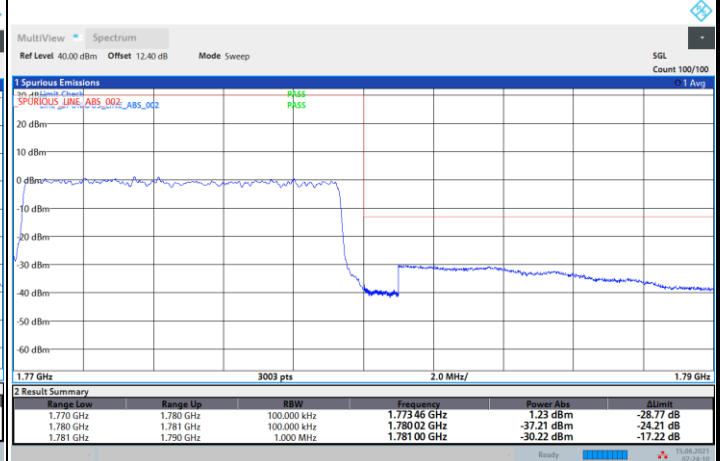
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power / dBm	dBm
1.709 GHz	1.709 GHz	100.000 kHz	1.709 98 GHz	-29.31 dBm	-16.31 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.709 98 GHz	-31.71 dBm	-18.71 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.712 30 GHz	0.52 dBm	-29.48 dB

07:07:56 15.06.2021



2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power / dBm	dBm
1.770 GHz	1.780 GHz	100.000 kHz	1.773 46 GHz	1.23 dBm	-28.77 dB
1.780 GHz	1.781 GHz	100.000 kHz	1.780 02 GHz	-37.21 dBm	-24.21 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.781 00 GHz	-30.22 dBm	-17.22 dB

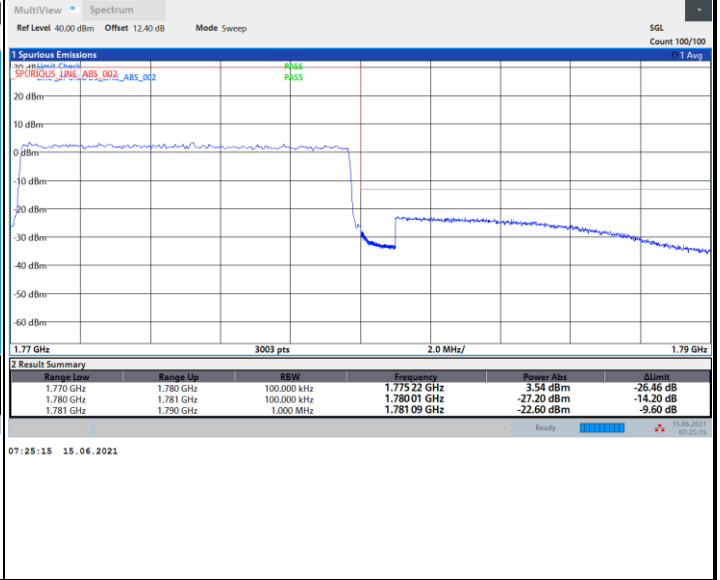
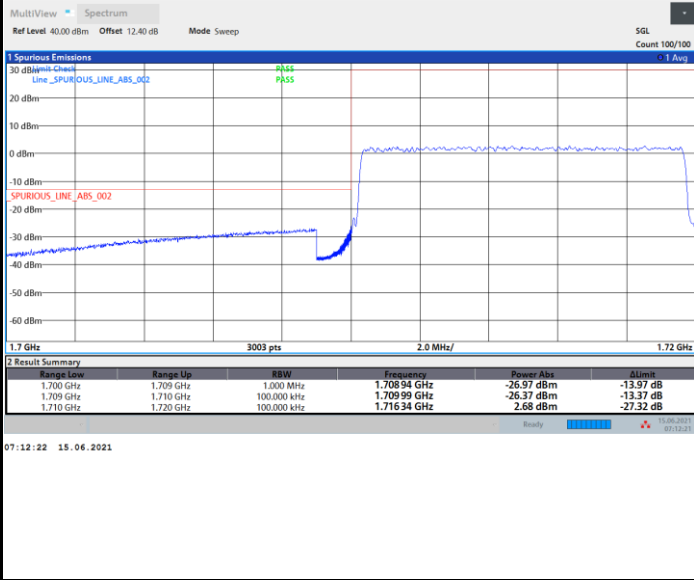
07:24:11 15.06.2021

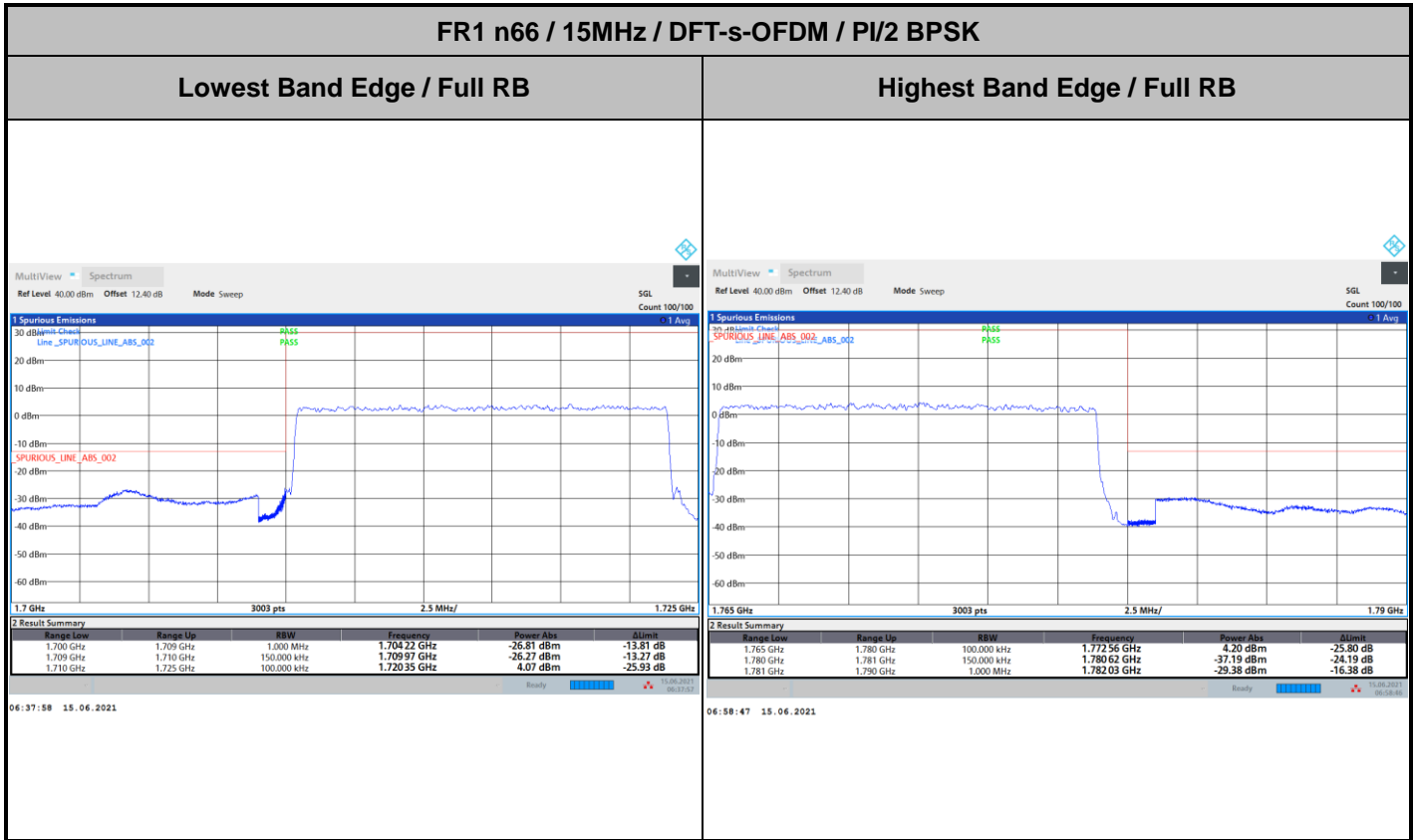


FR1 n66 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge





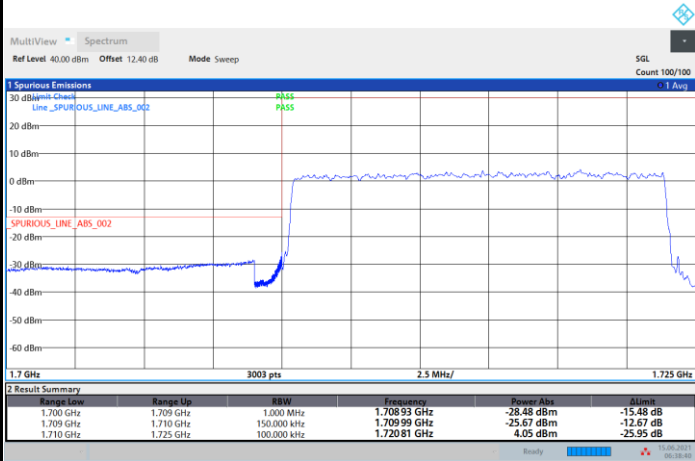




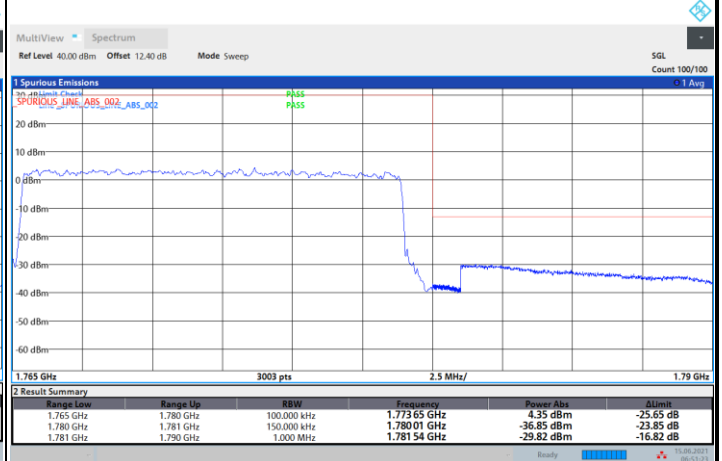
FR1 n66 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



06:38:40 15.06.2021



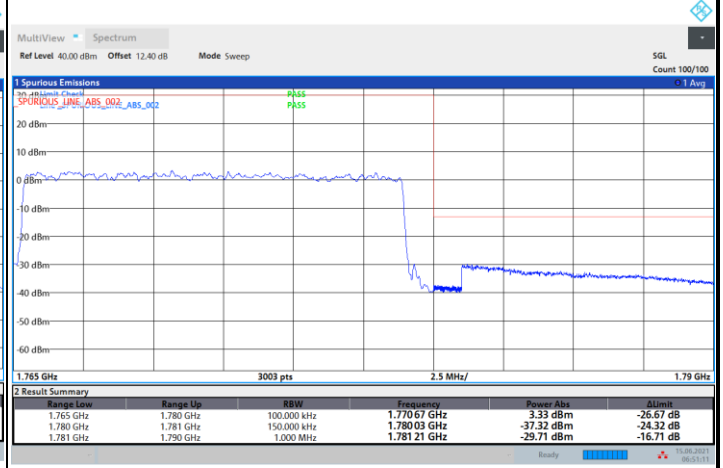
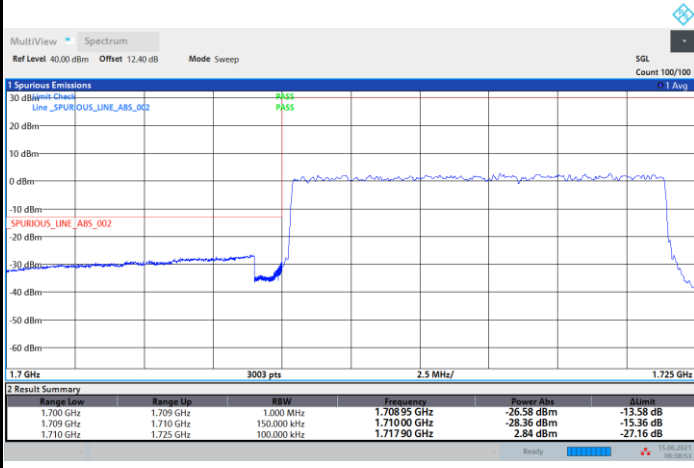
06:51:23 15.06.2021



FR1 n66 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

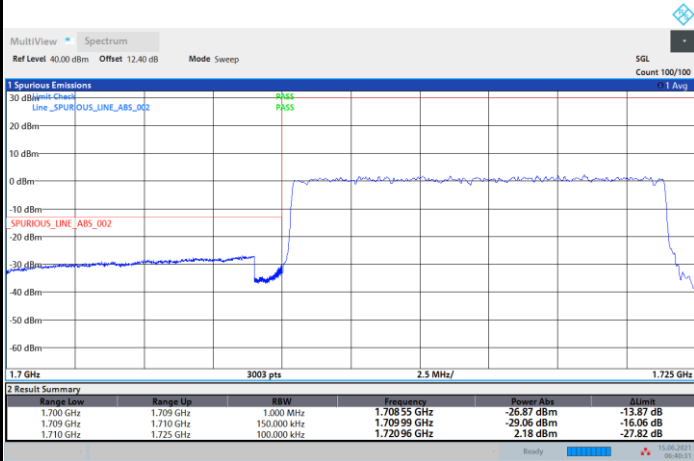




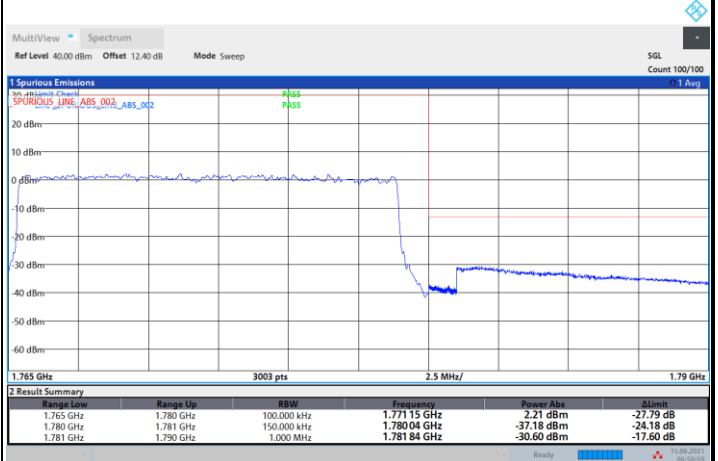
FR1 n66 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



06:40:32 15.06.2021



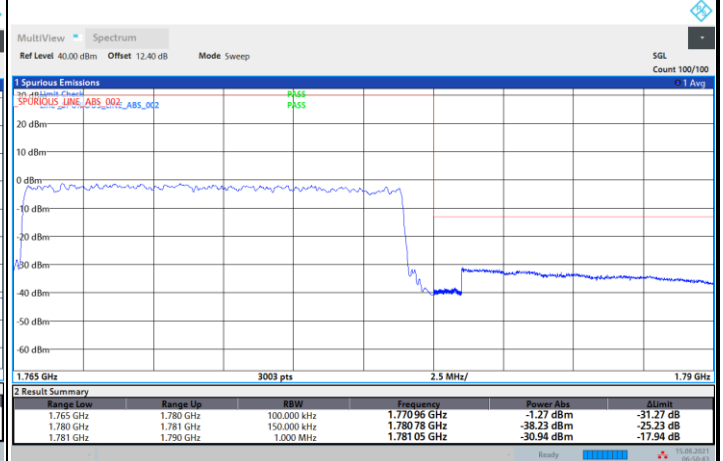
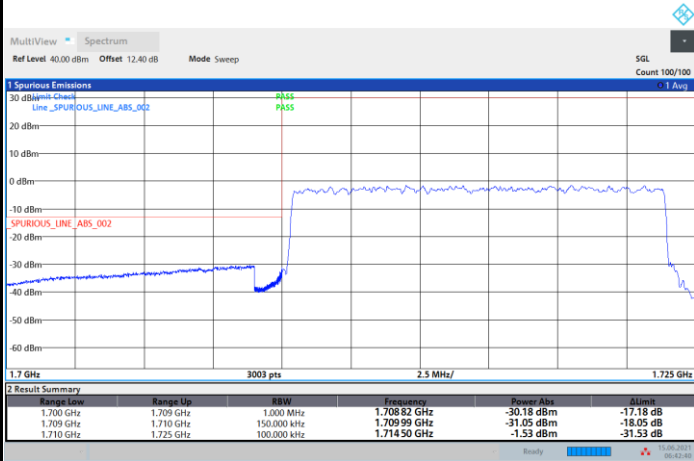
06:50:59 15.06.2021

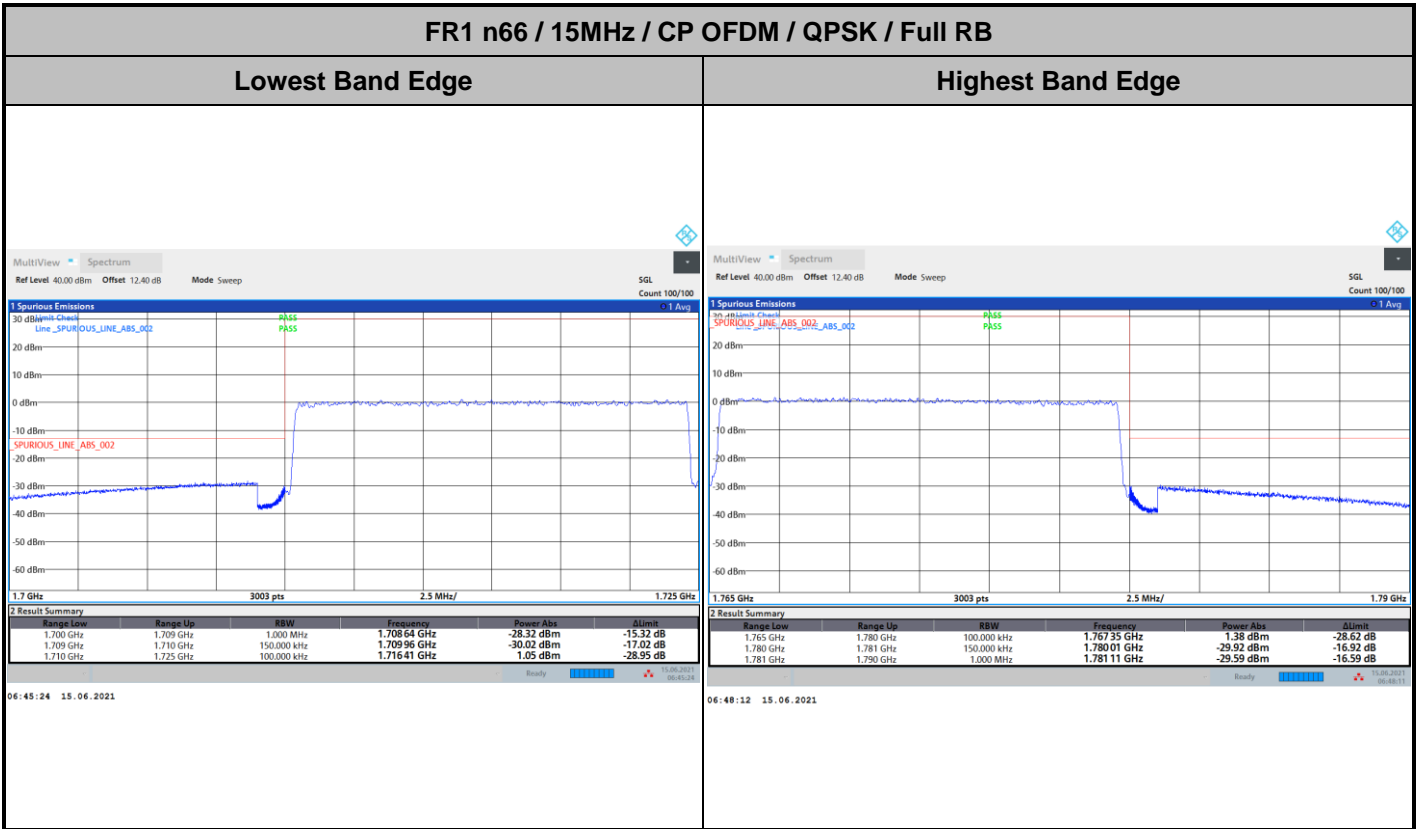


FR1 n66 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



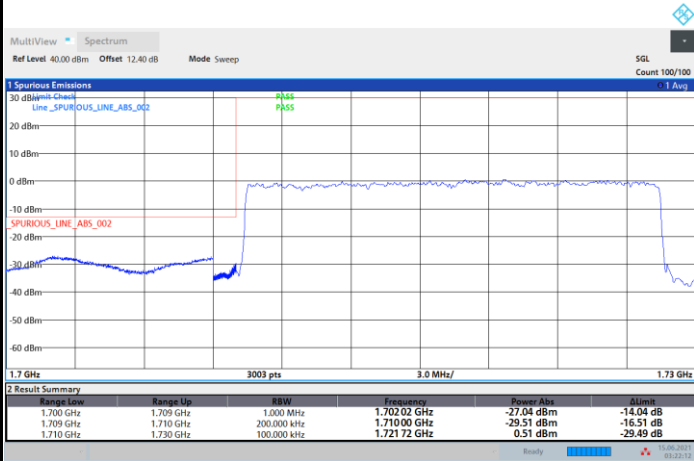




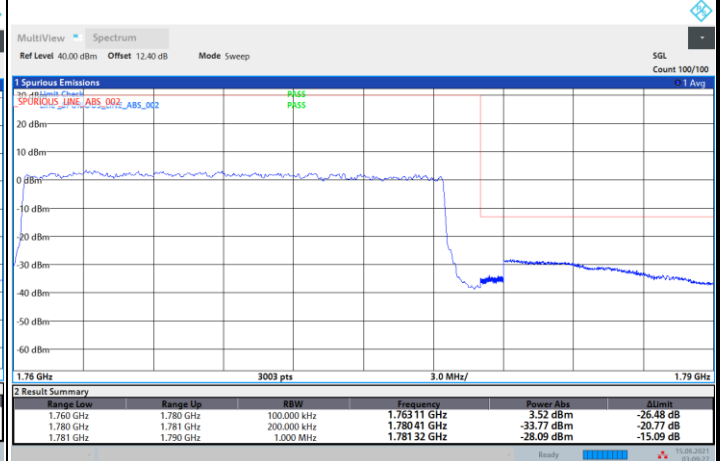
FR1 n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:22:13 15.06.2021



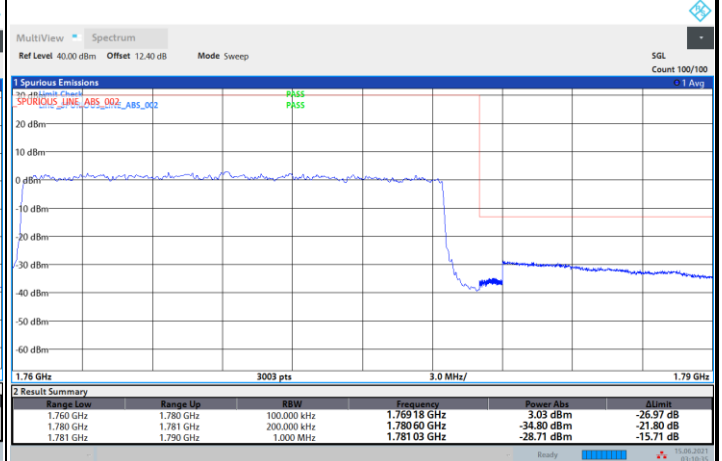
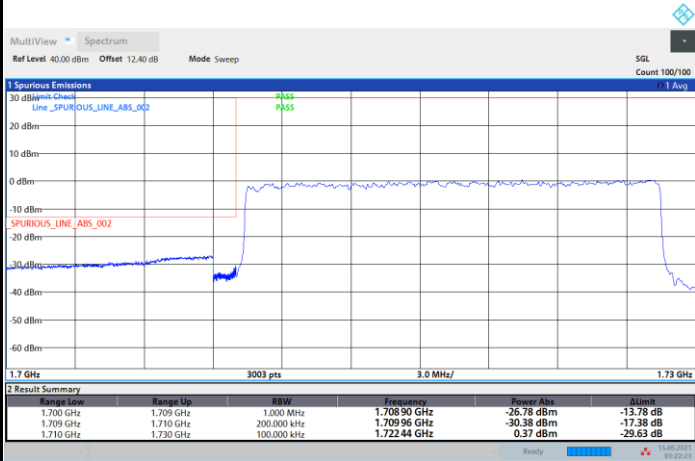
03:09:27 15.06.2021



**FR1 n66 / 20MHz / DFT-s-OFDM / QPSK**

**Lowest Band Edge / Full RB**

**Highest Band Edge / Full RB**



Range Low	Range Up	RBW	Frequency	Power (dBm)	dBm/Hz
1.709 GHz	1.709 GHz	1.000 MHz	1.708 90 GHz	-26.78 dBm	-13.78 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.709 96 GHz	-30.38 dBm	-17.38 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.722 44 GHz	0.37 dBm	-29.63 dB

Range Low	Range Up	RBW	Frequency	Power (dBm)	dBm/Hz
1.780 GHz	1.780 GHz	100.000 kHz	1.781 18 GHz	3.03 dBm	-25.97 dB
1.780 GHz	1.781 GHz	200.000 kHz	1.780 60 GHz	-34.80 dBm	-21.80 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.781 03 GHz	-28.71 dBm	-15.71 dB

03:22:24 15.06.2021

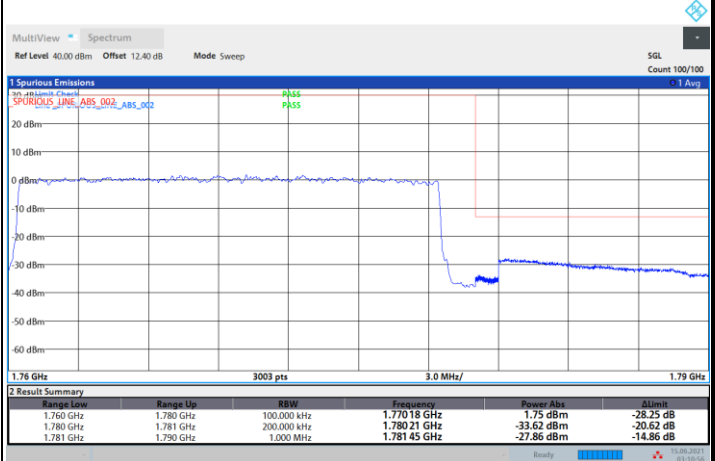
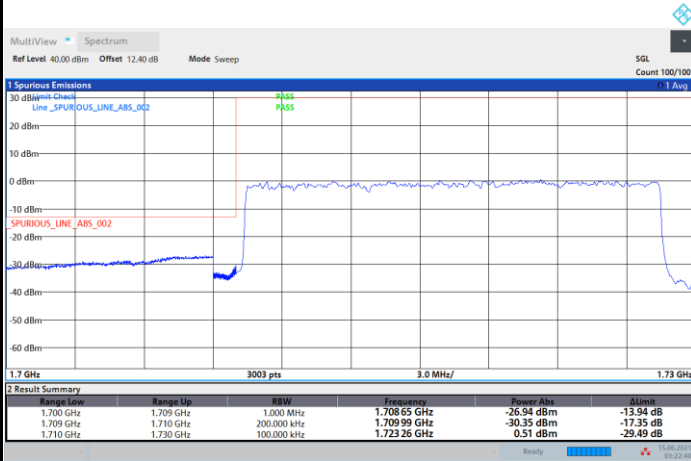
03:10:35 15.06.2021



FR1 n66 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



03:22:40 15.06.2021

03:10:57 15.06.2021

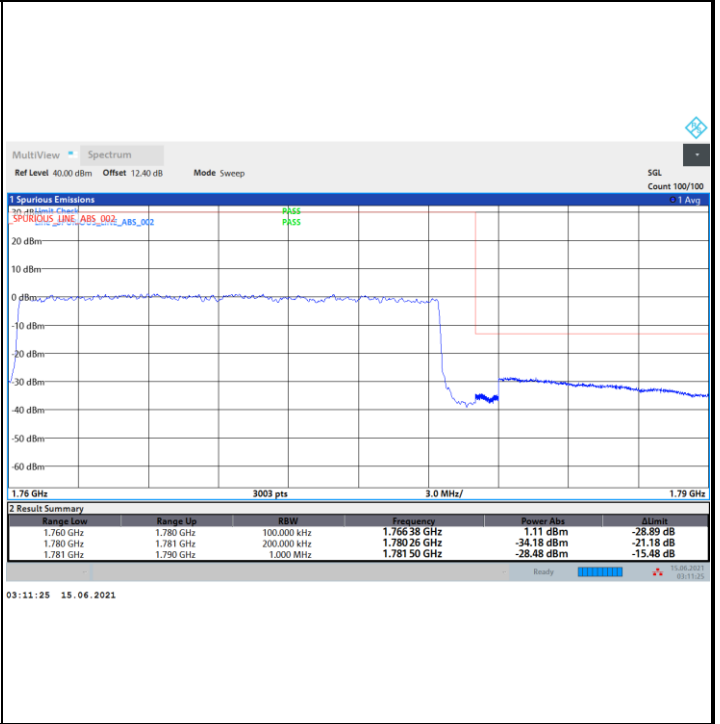
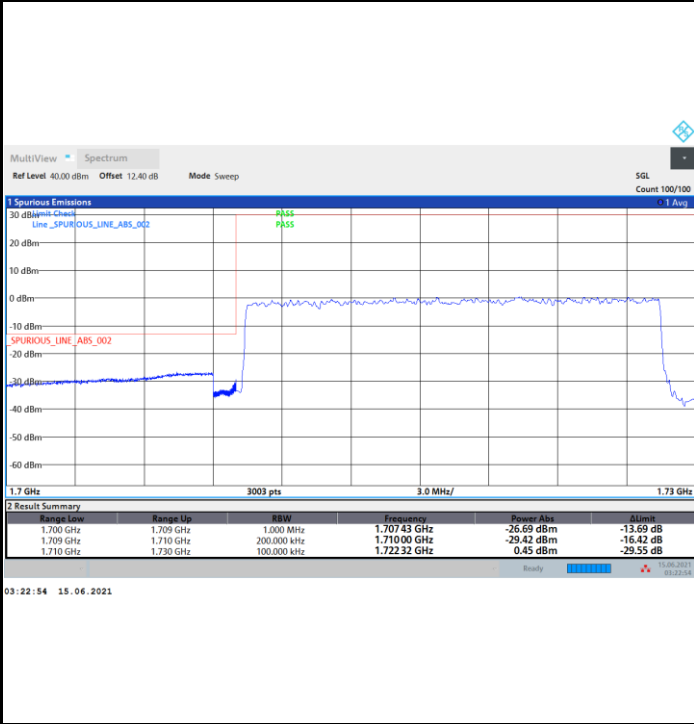




FR1 n66 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

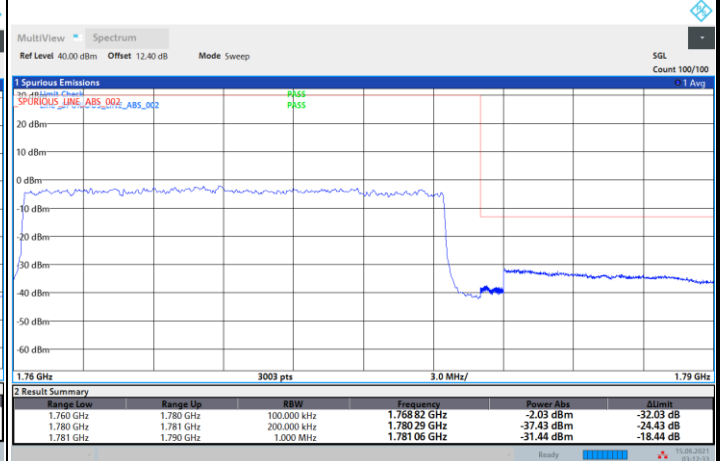
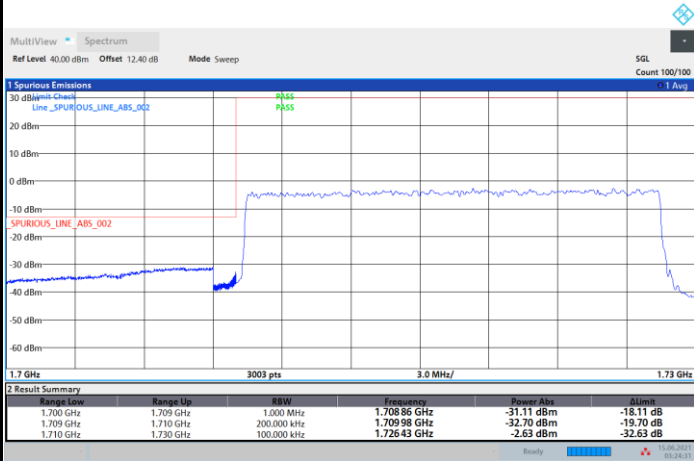




FR1 n66 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

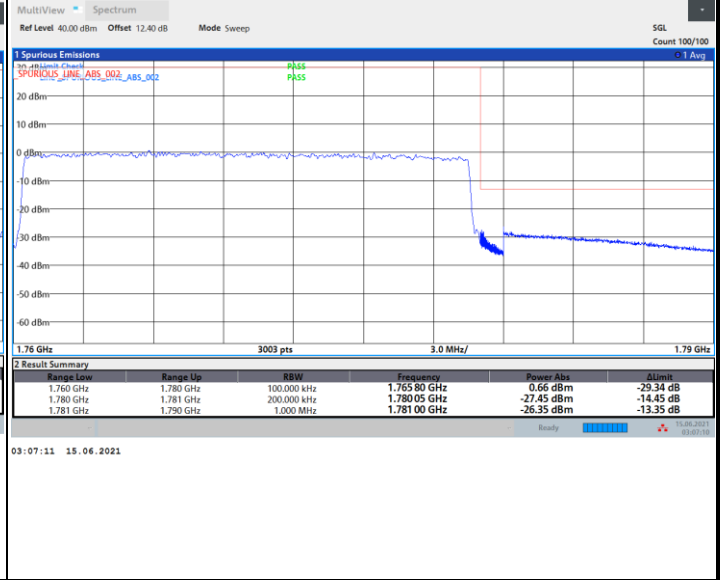
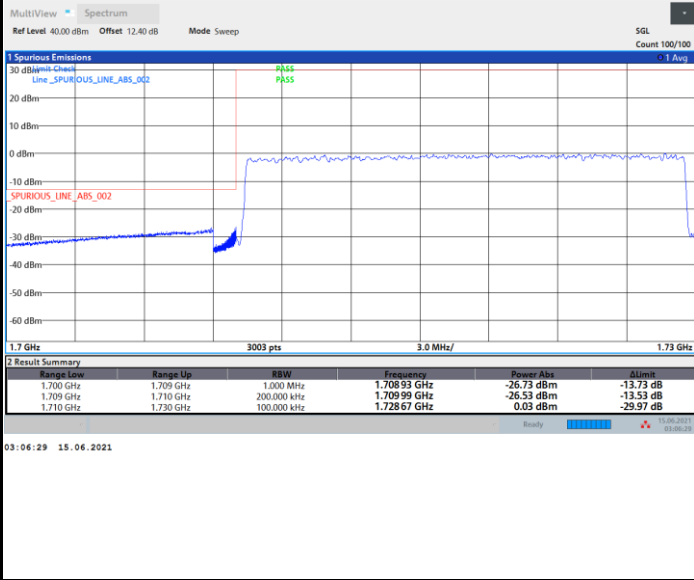




FR1 n66 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

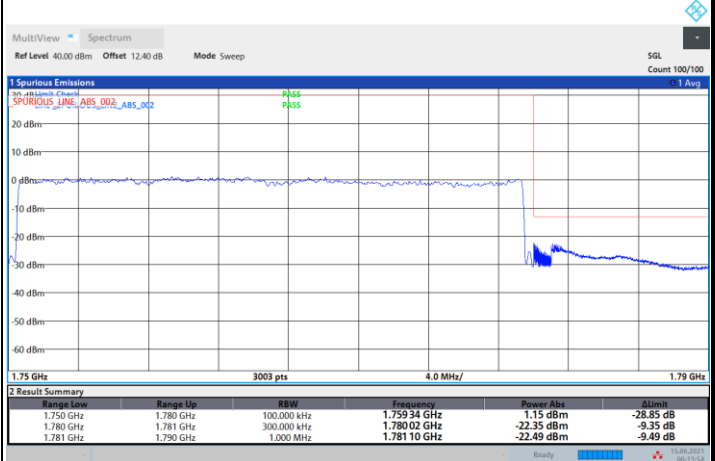
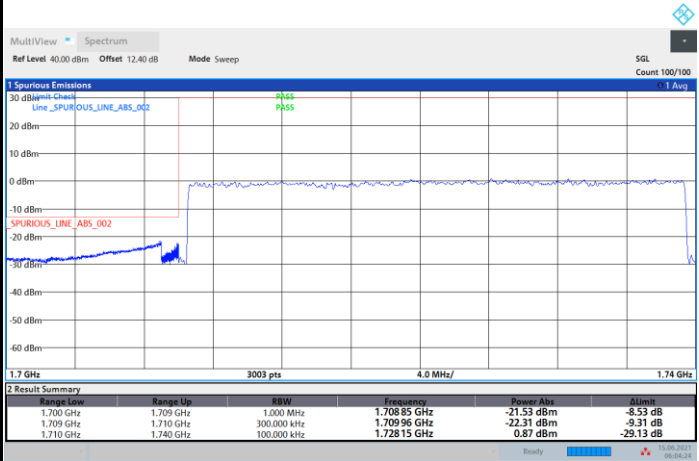




FR1 n66 / 30MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

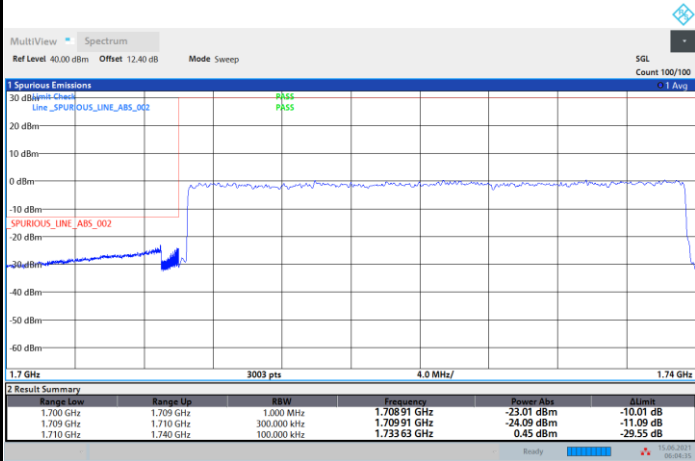




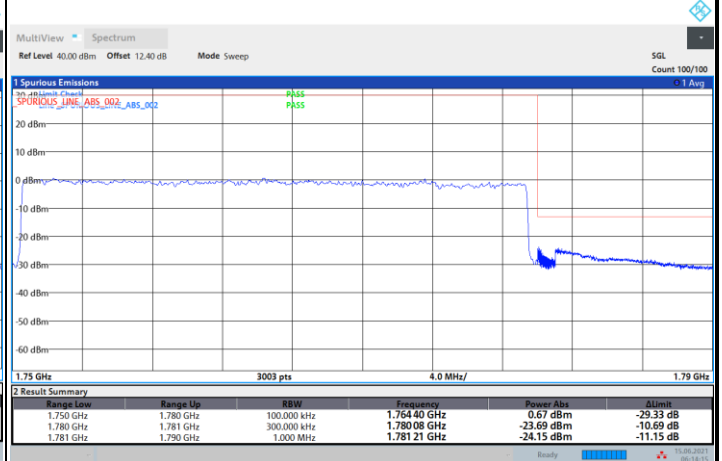
FR1 n66 / 30MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



06:04:35 15.06.2021



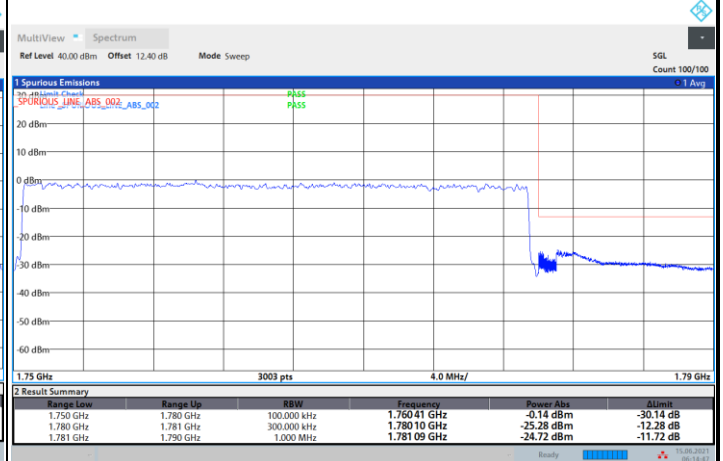
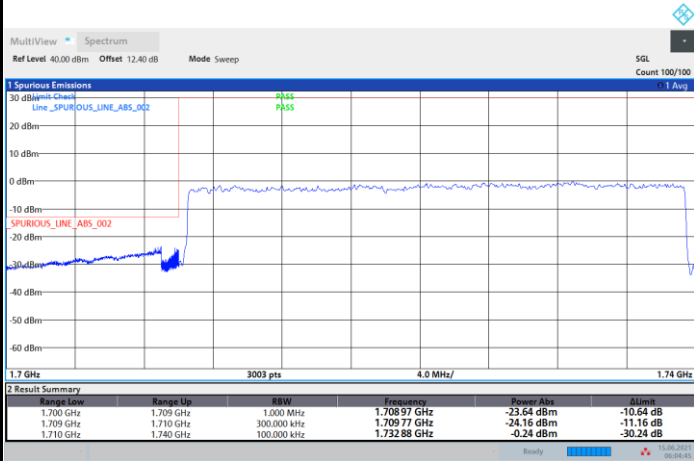
06:14:15 15.06.2021



FR1 n66 / 30MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

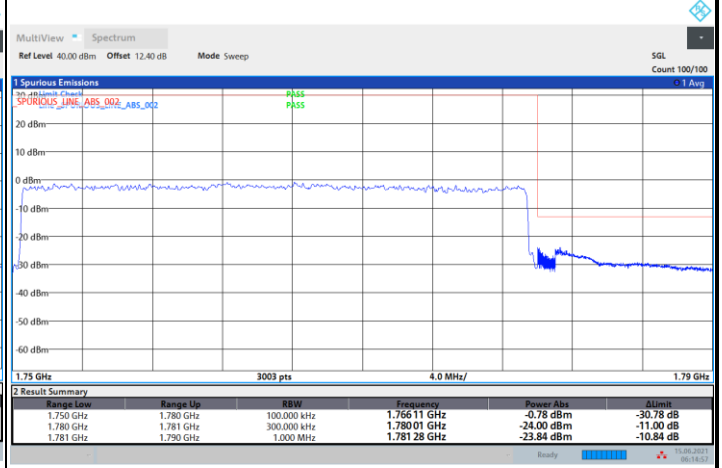
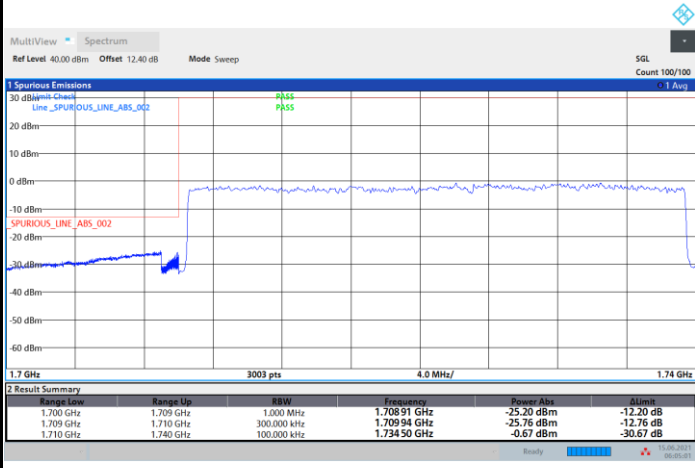




FR1 n66 / 30MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

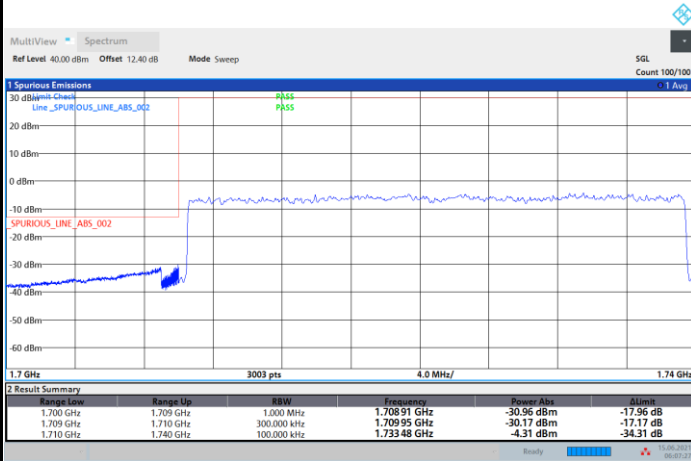




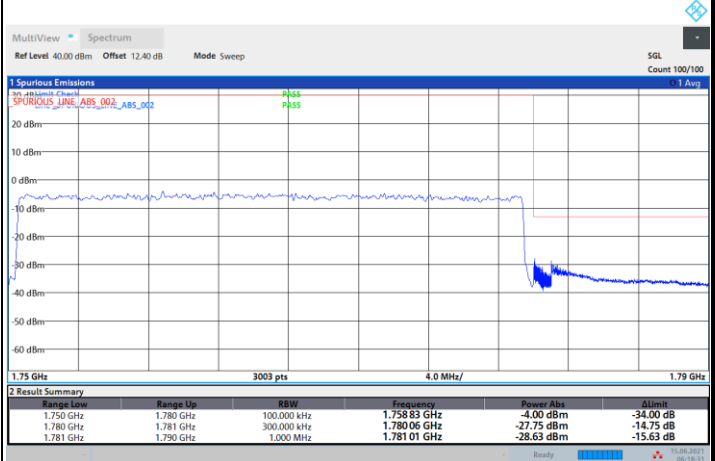
FR1 n66 / 30MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



06:07:28 15.06.2021



06:18:31 15.06.2021

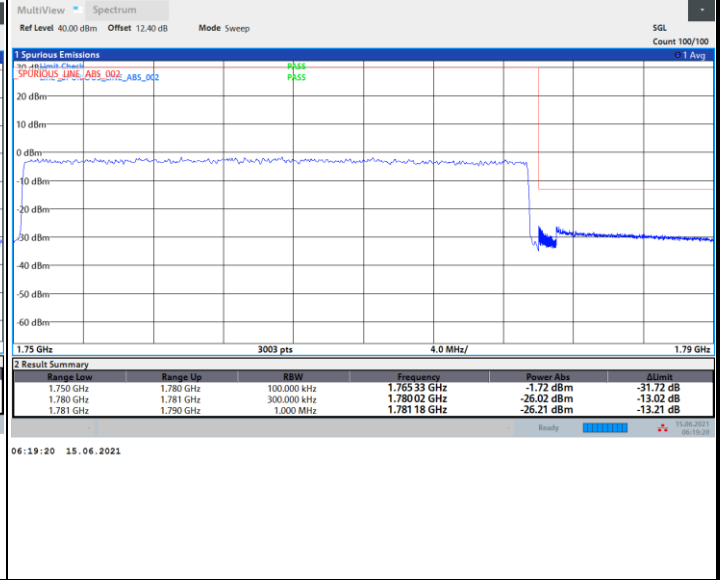
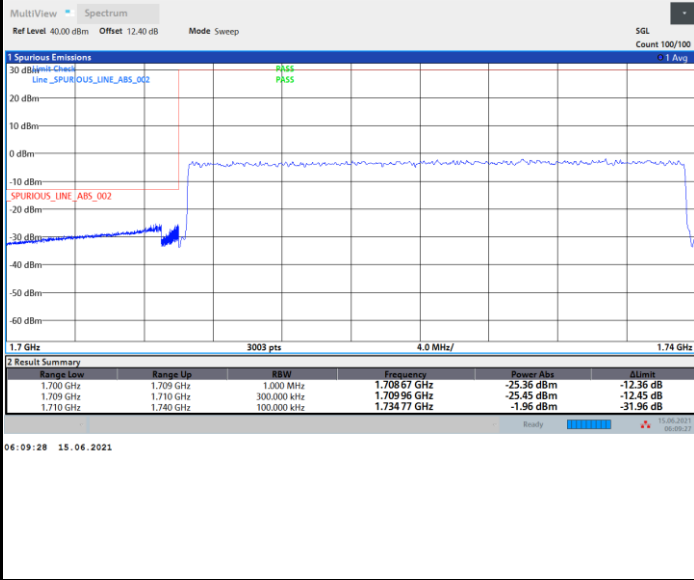


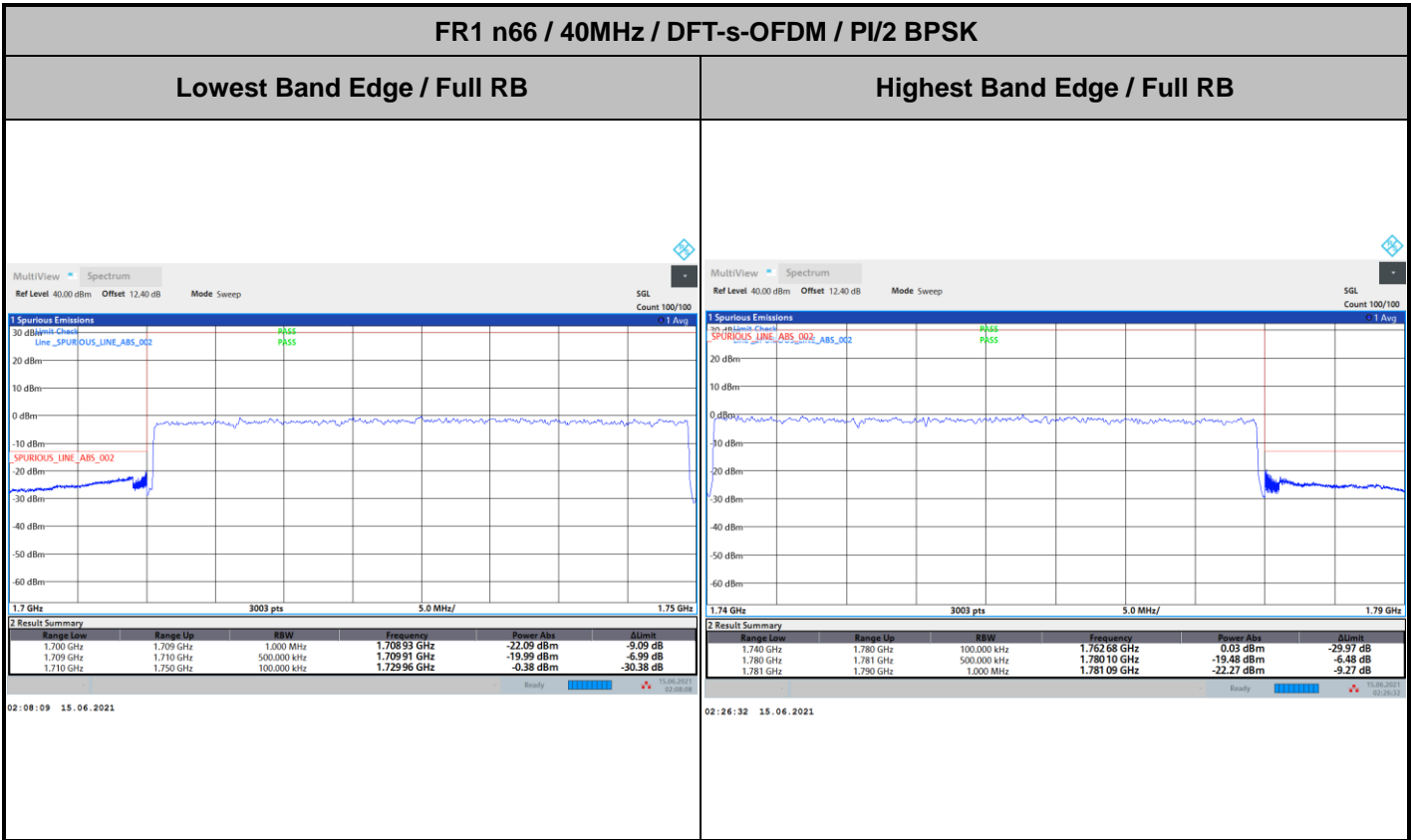


FR1 n66 / 30MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



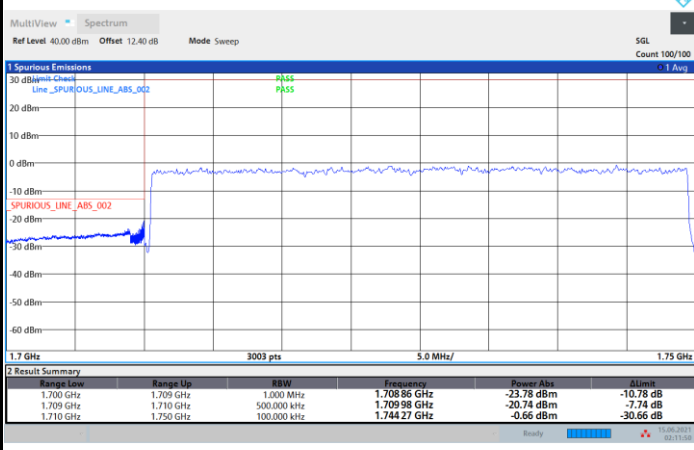




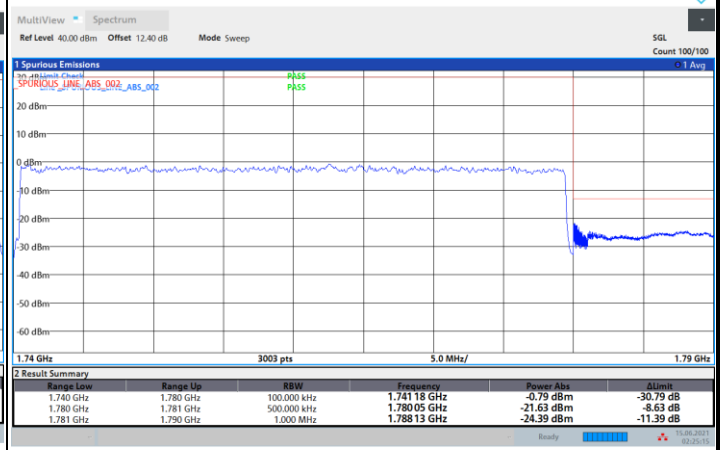
FR1 n66 / 40MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:11:51 15.06.2021



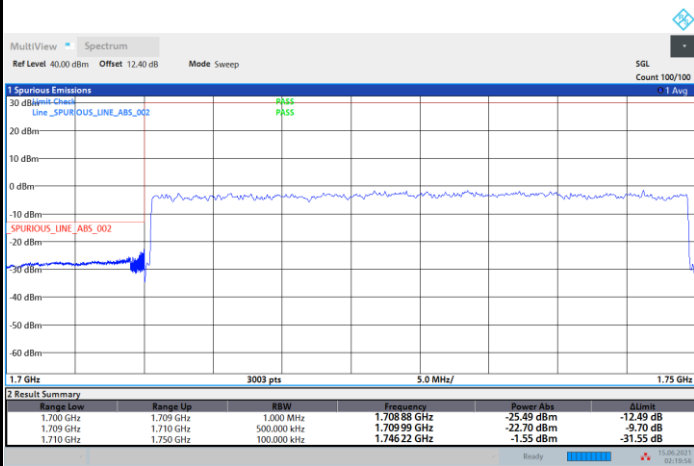
02:25:16 15.06.2021



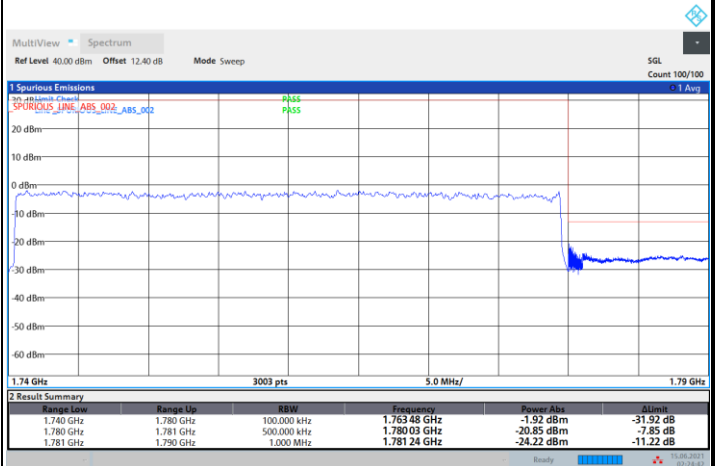
**FR1 n66 / 40MHz / DFT-s-OFDM / 16QAM**

**Lowest Band Edge / Full RB**

**Highest Band Edge / Full RB**



02:19:57 15.06.2021



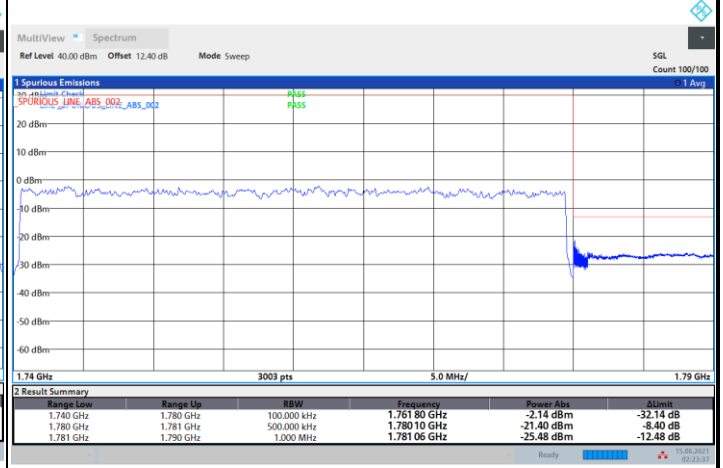
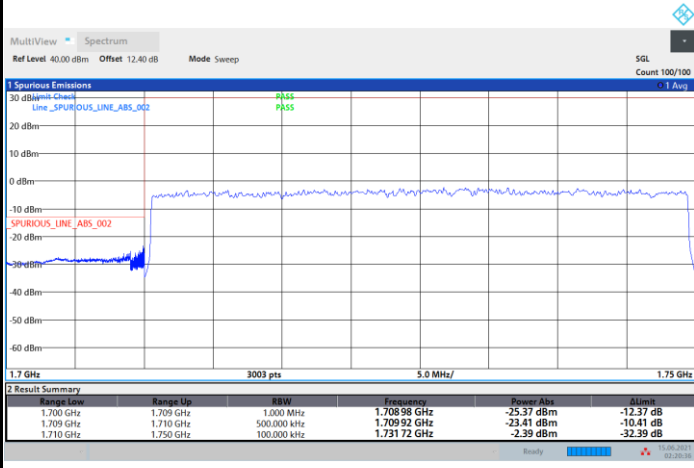
02:24:42 15.06.2021



FR1 n66 / 40MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

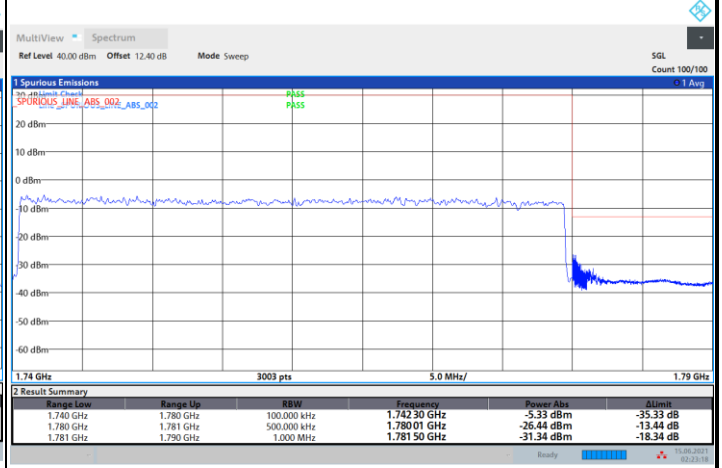
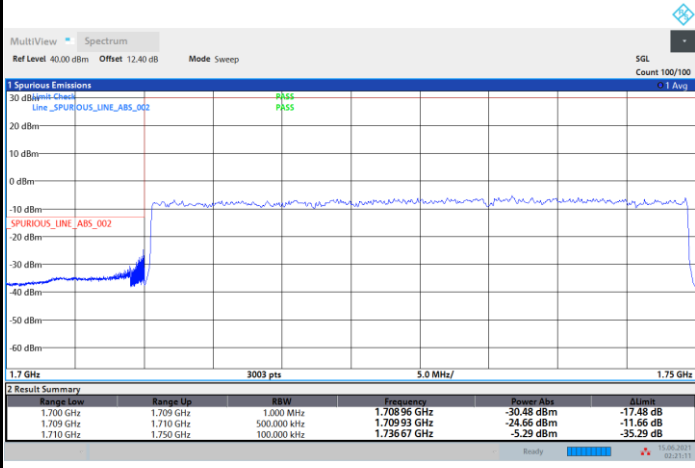




FR1 n66 / 40MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

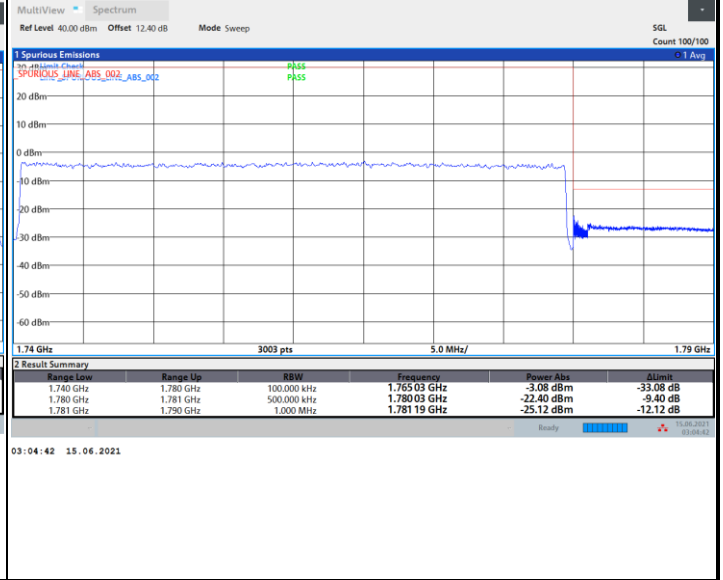
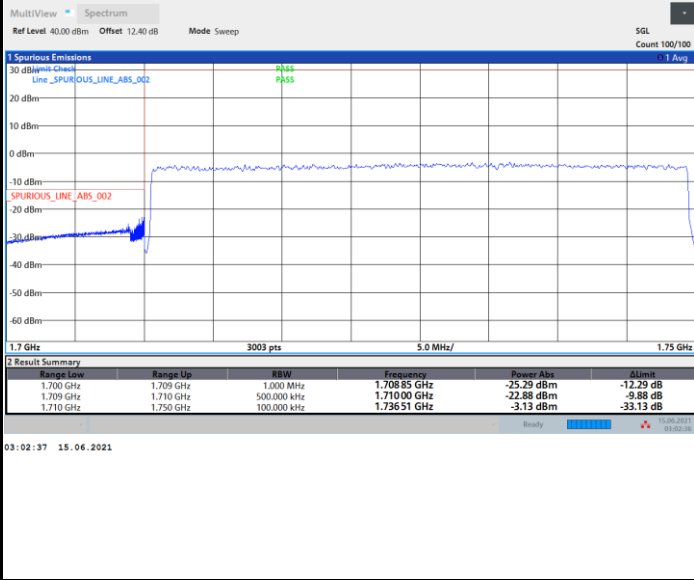




FR1 n66 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

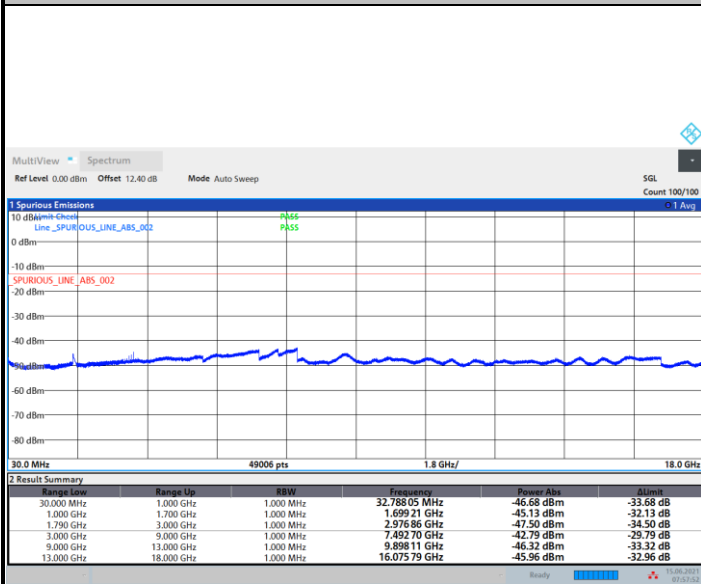




# Conducted Spurious Emission

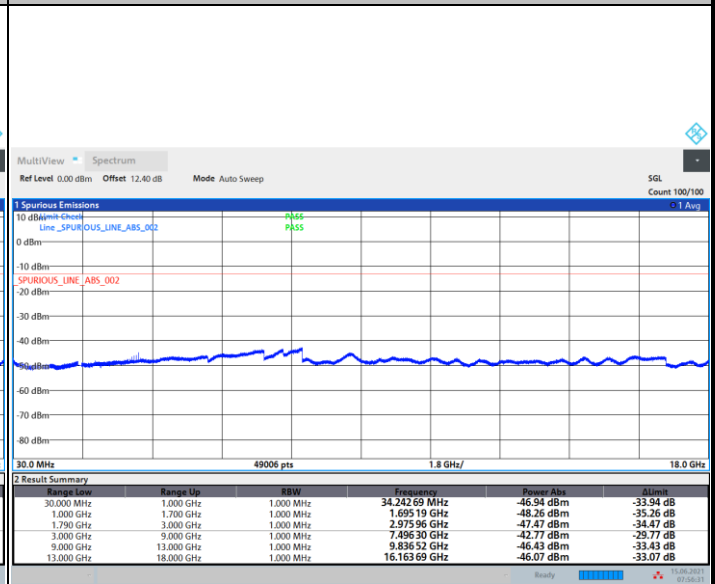
FR1 n66 / 5MHz / DFT-S OFDM / QPSK / 1RB1

## Lowest Channel



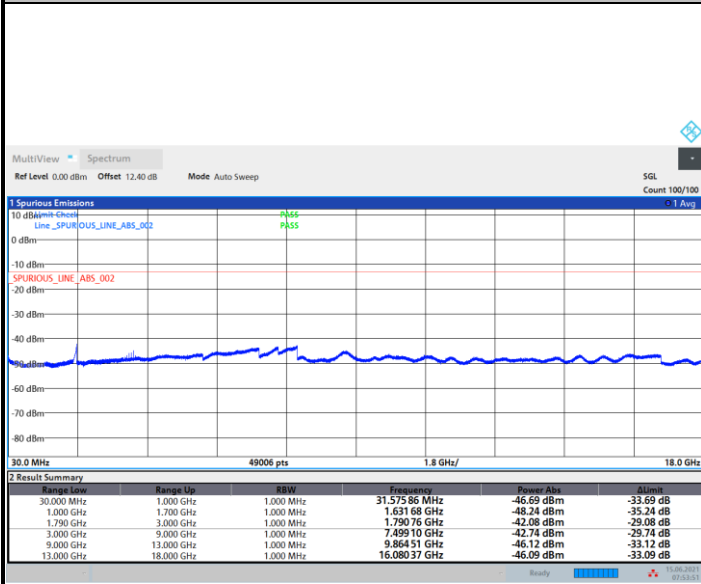
07:57:52 15.06.2021

## Middle Channel



07:56:32 15.06.2021

## Highest Channel



07:53:51 15.06.2021





Frequency Stability

Test Conditions		FR1 n66 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0090	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0104	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0065	

Note:

1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n71

## Peak-to-Average Ratio

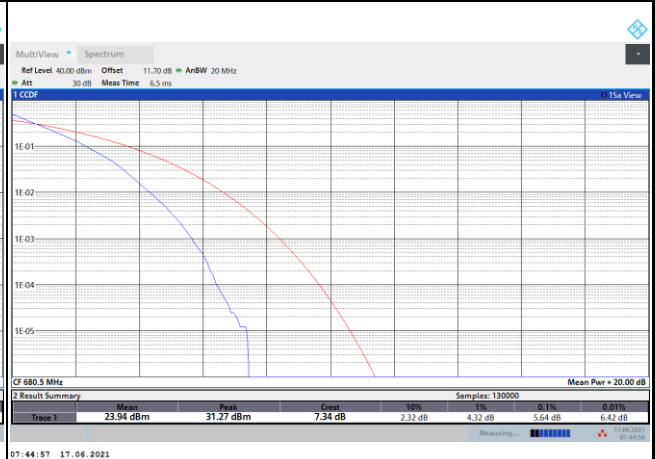
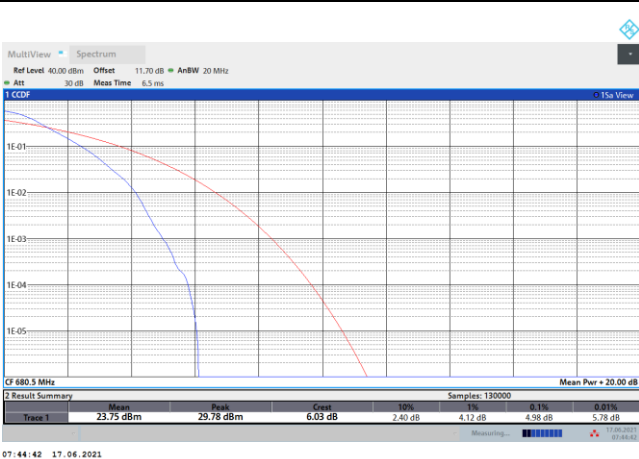
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.98	5.64	6.76	7.02	PASS
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.96				PASS



FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

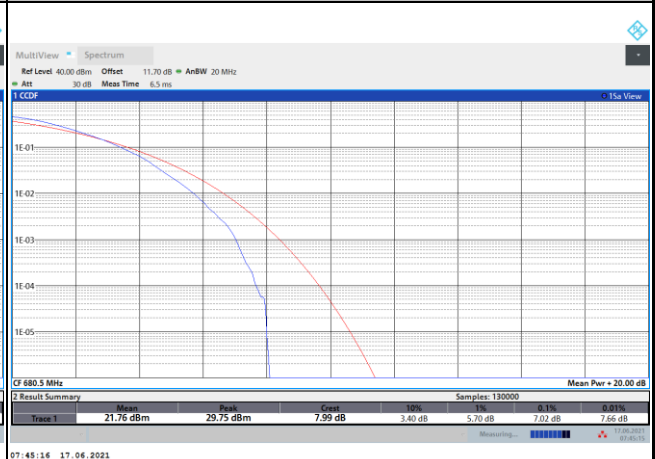
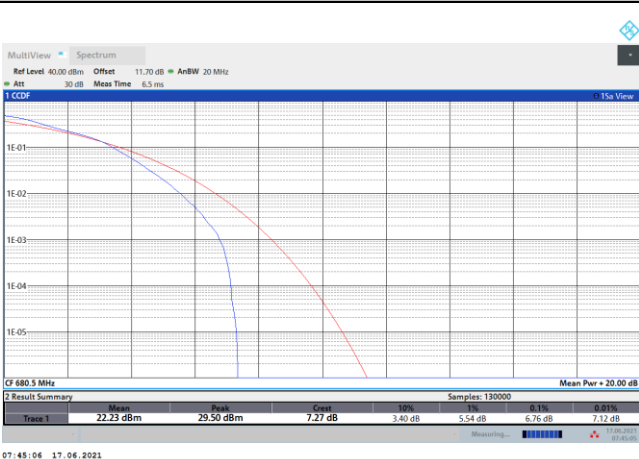
PI/2 BPSK

QPSK

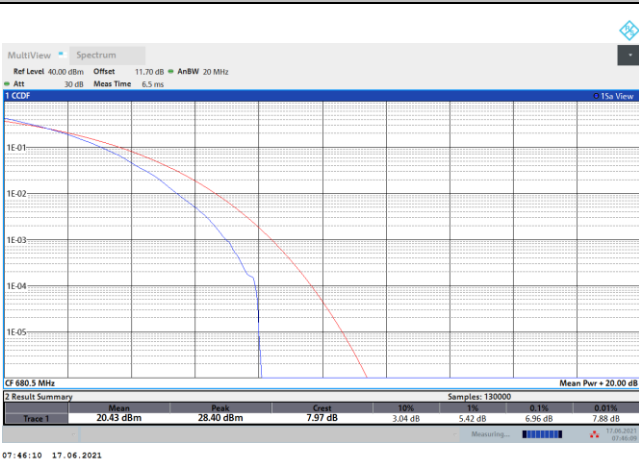


16QAM

64QAM



256QAM





**26dB Bandwidth**

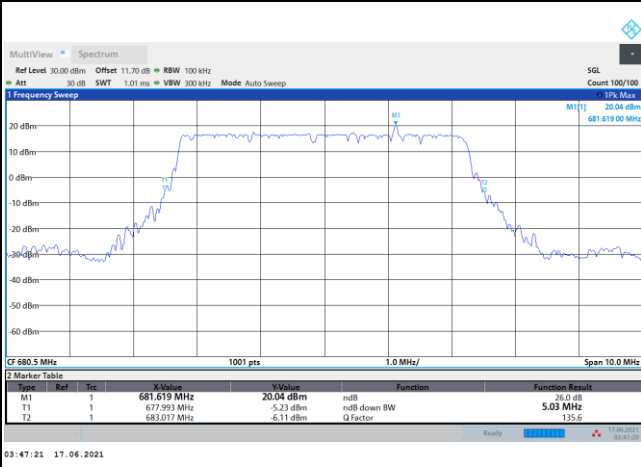
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	5.03		9.65		14.12		18.86	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.07	5.09	10.11	10.07	15.23	15.14	20.34	19.94
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.10	5.01	9.93	10.01	14.96	15.14	20.30	20.14



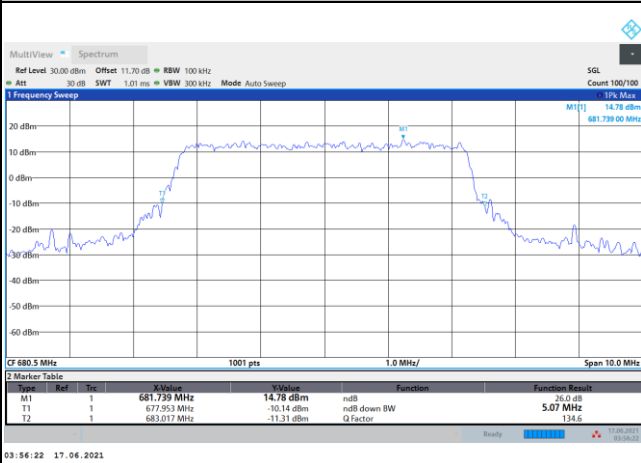
FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

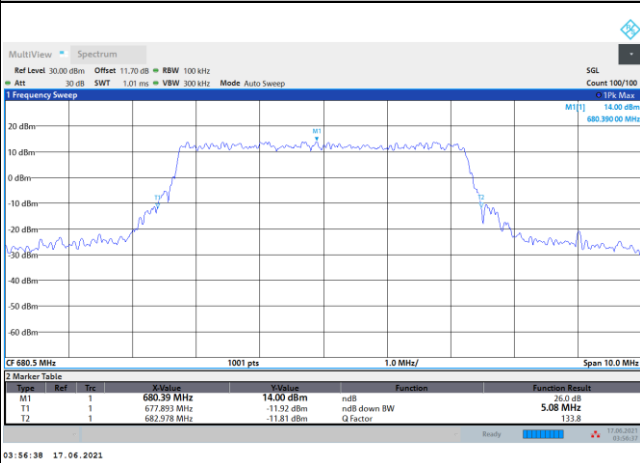


FR1 n71 / 5MHz / CP OFDM / Middle Channel / Full RB

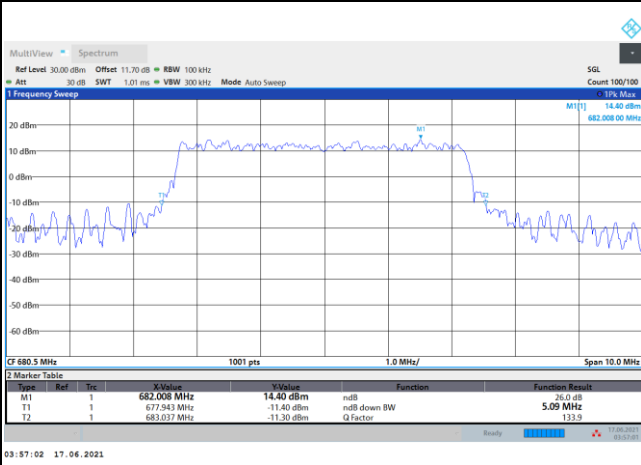
QPSK



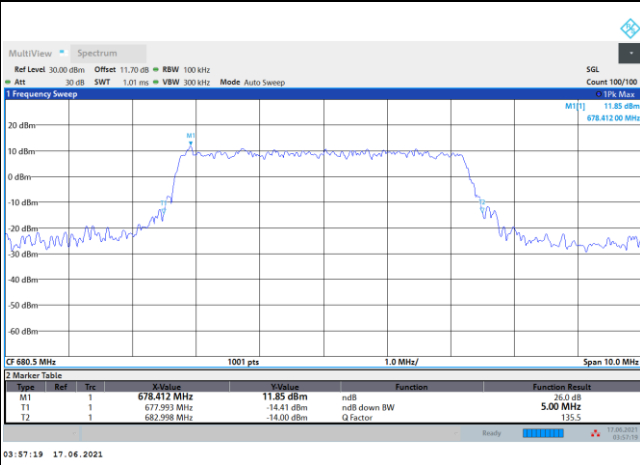
16QAM



64QAM



256QAM





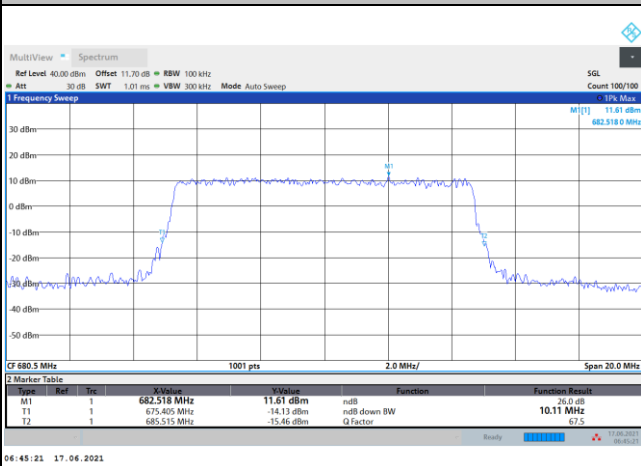
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

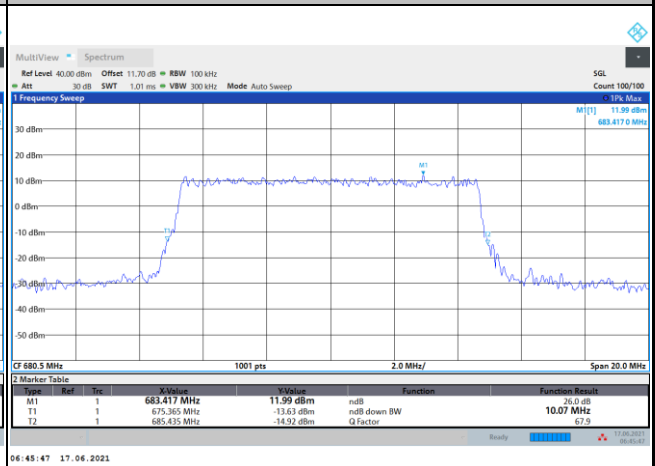


FR1 n71 / 10MHz / CP OFDM / Middle Channel / Full RB

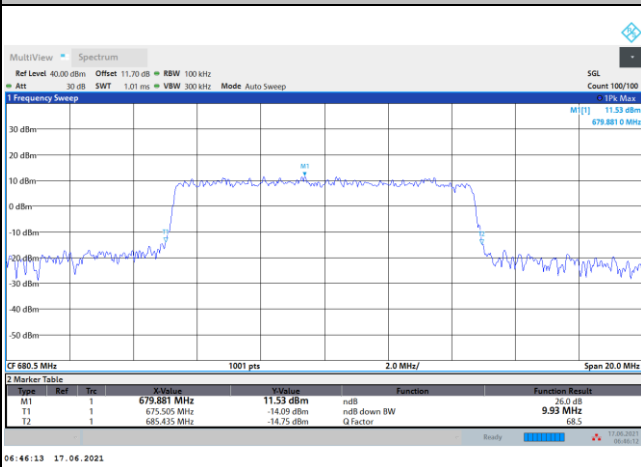
QPSK



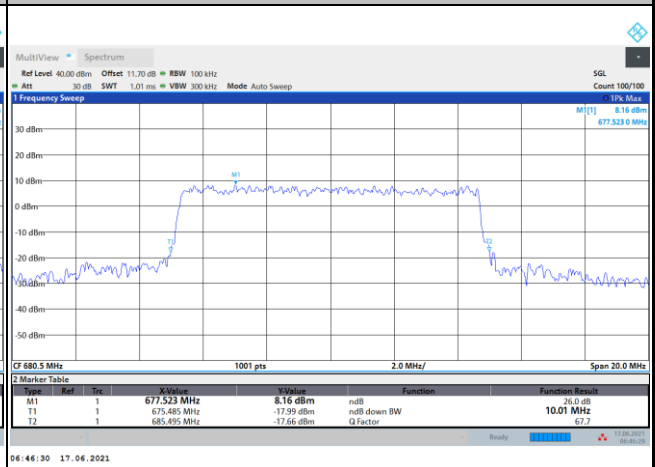
16QAM



64QAM



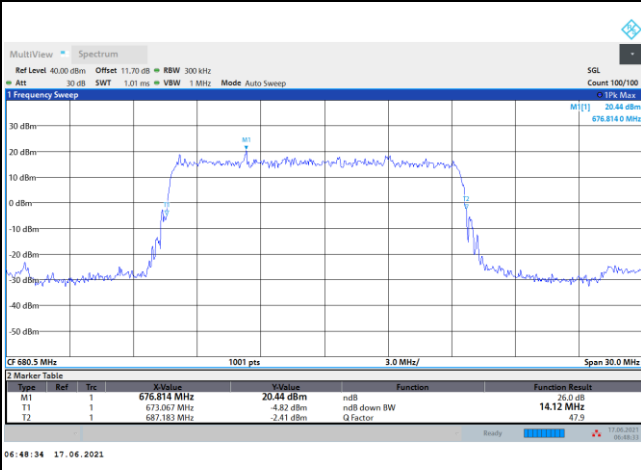
256QAM





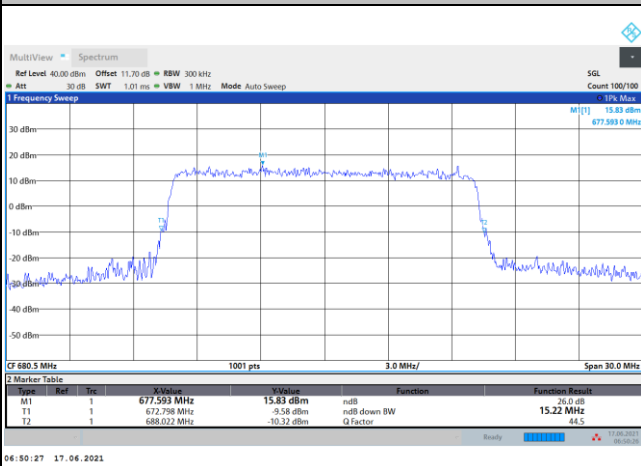
FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

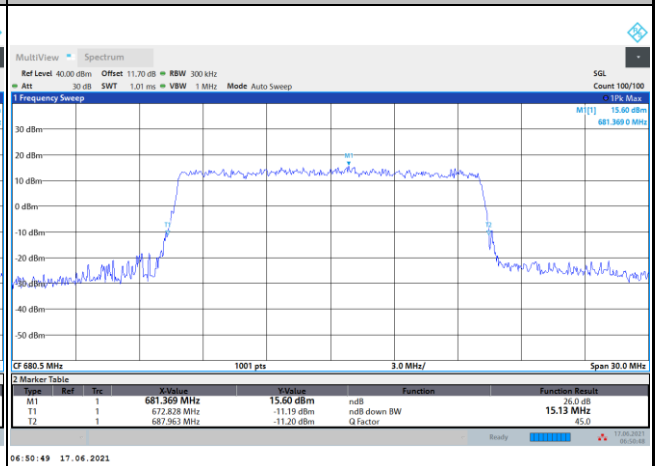


FR1 n71 / 15MHz / CP OFDM / Middle Channel / Full RB

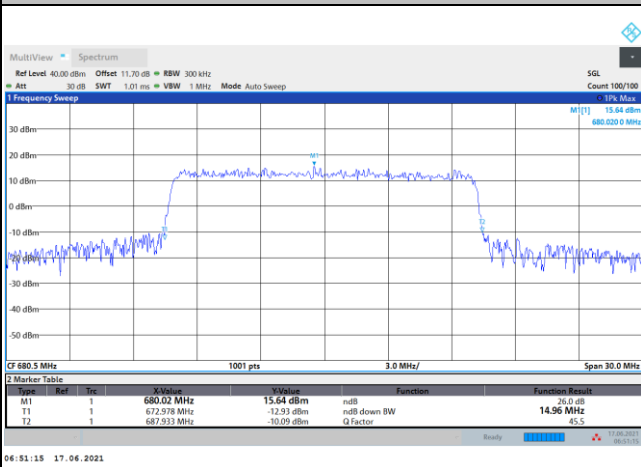
QPSK



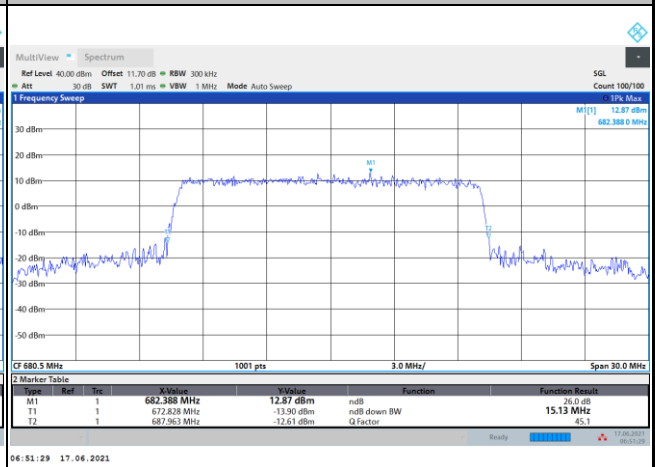
16QAM



64QAM



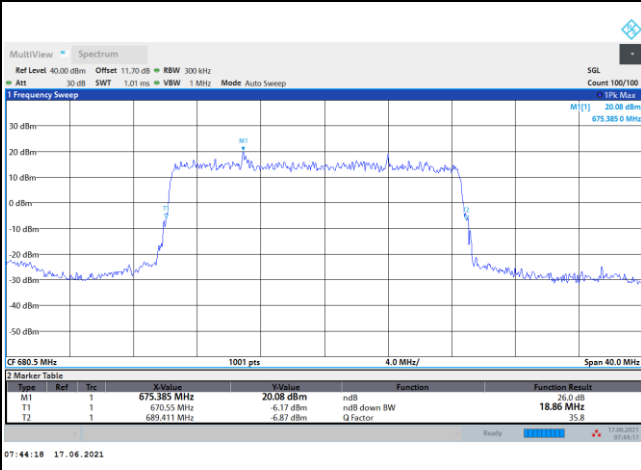
256QAM





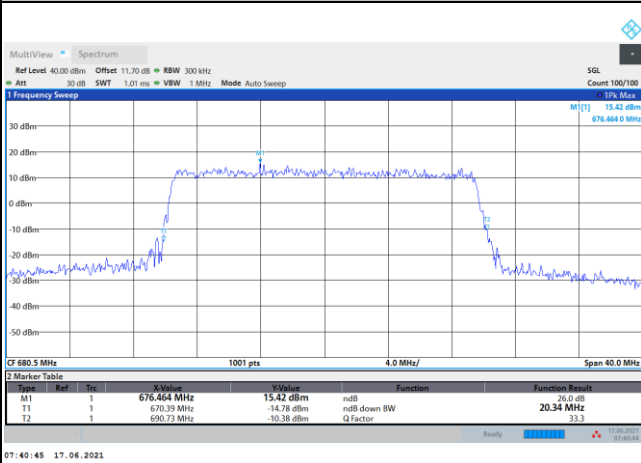
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

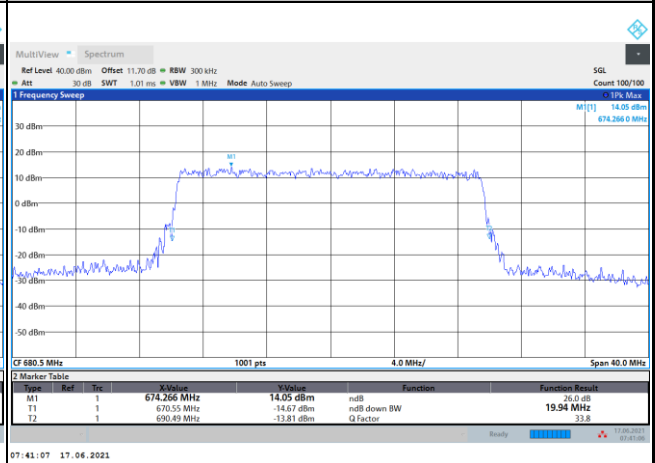


FR1 n71 / 20MHz / CP OFDM / Middle Channel / Full RB

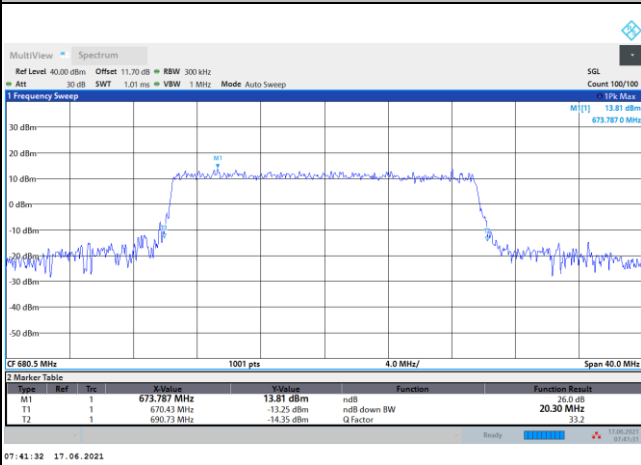
QPSK



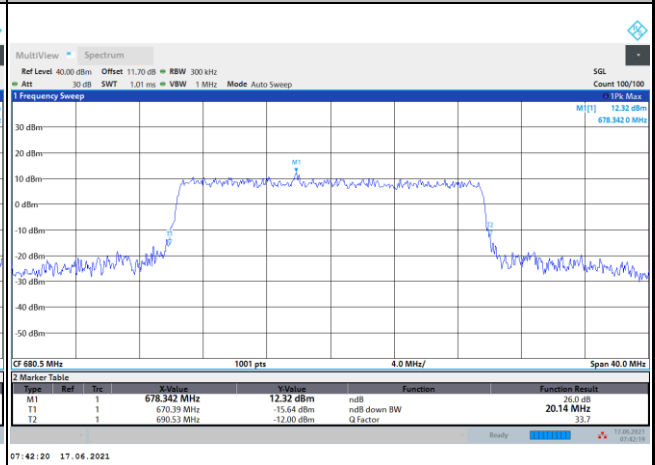
16QAM



64QAM



256QAM







**Occupied Bandwidth**

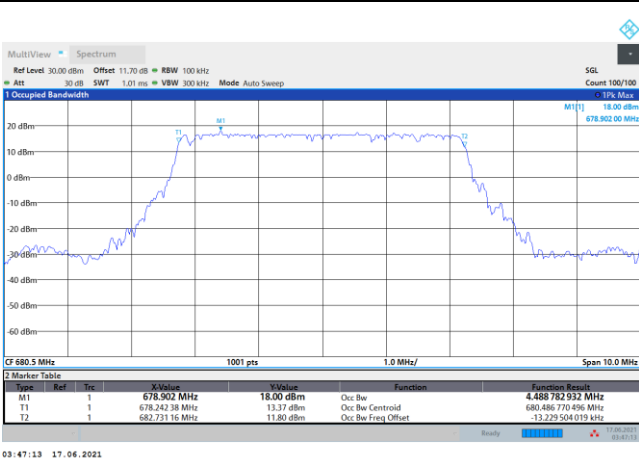
Mode	FR1 n71 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.49		8.92		13.45		17.88	

Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.53	4.50	9.28	9.33	14.13	14.16	18.93	18.94
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.50	4.53	9.31	9.28	14.13	14.15	18.94	18.96



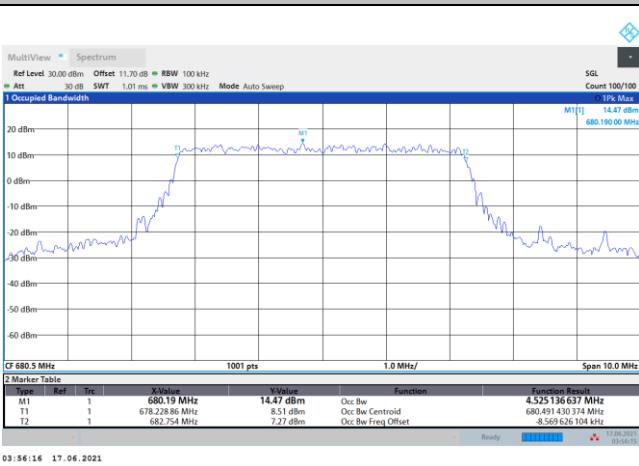
FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

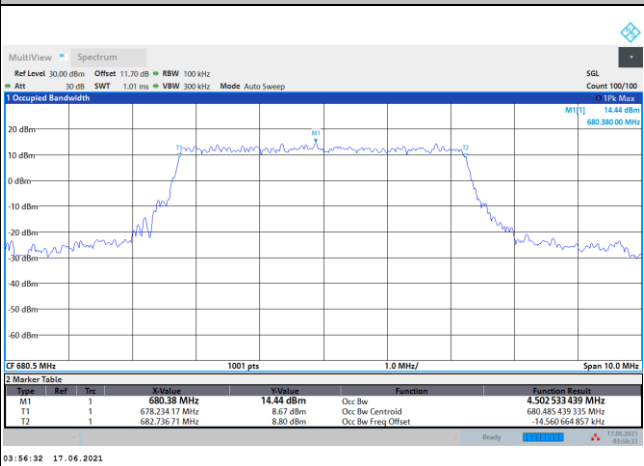


FR1 n71 / 5MHz / CP OFDM / Middle Channel / Full RB

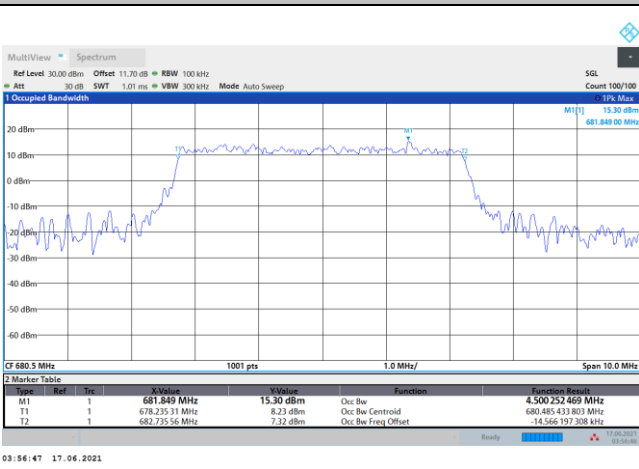
QPSK



16QAM



64QAM



256QAM

