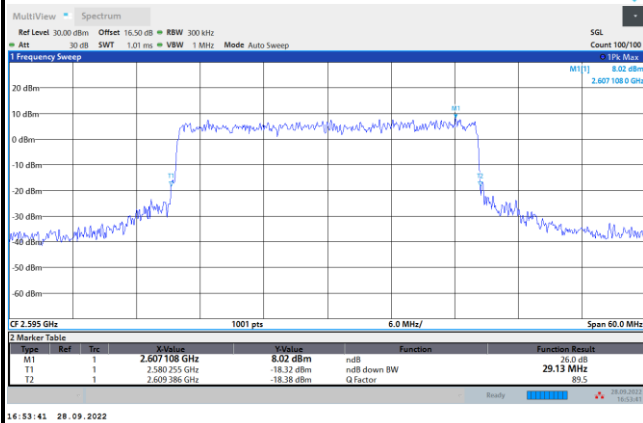


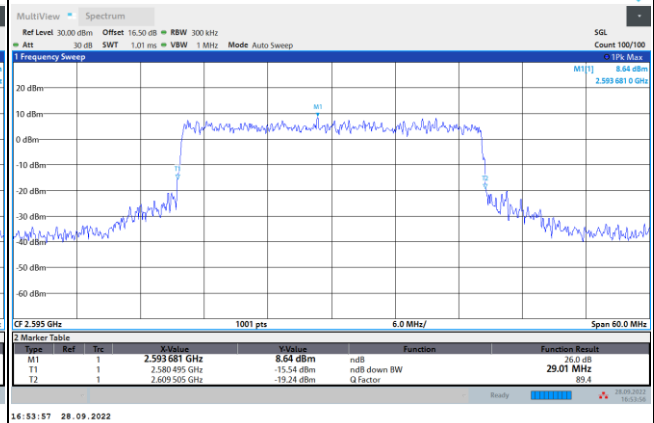


FR1 n38 / 30MHz / CP OFDM / Middle Channel / Full RB

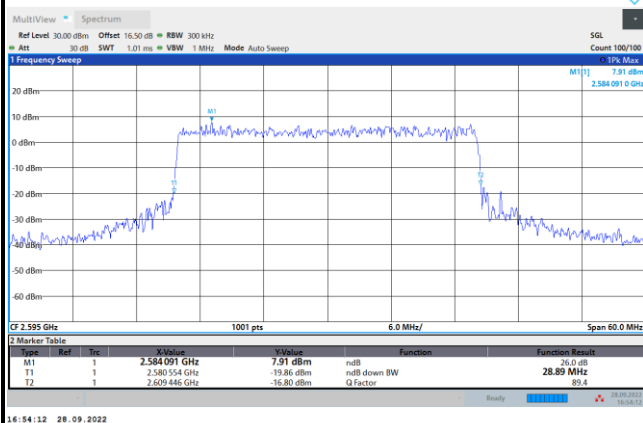
QPSK



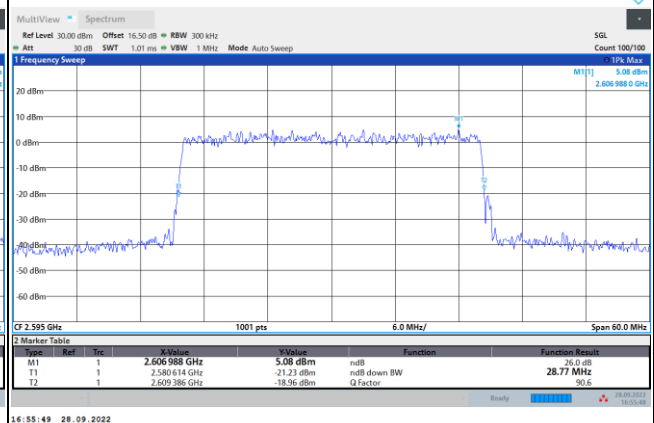
16QAM



64QAM



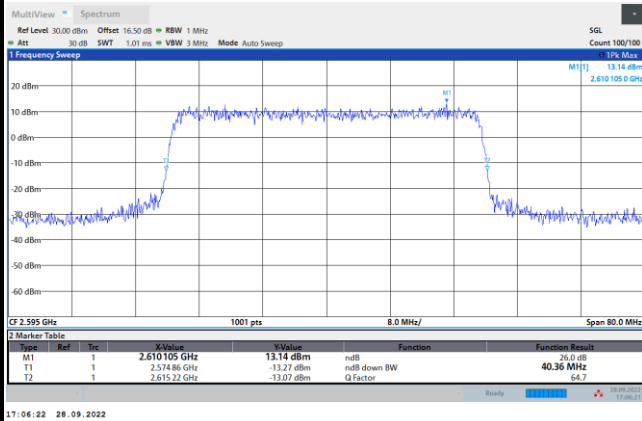
256QAM



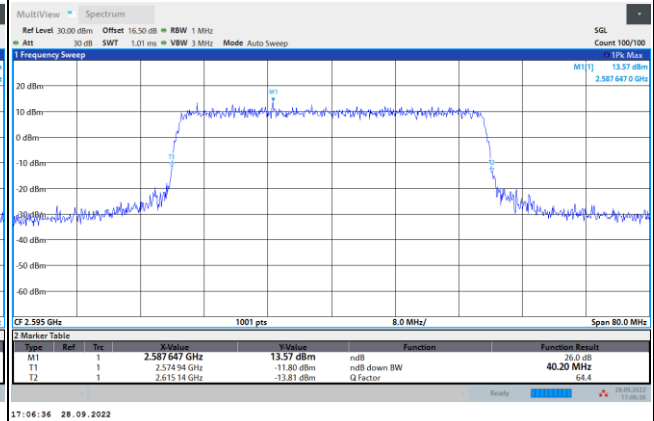


FR1 n38 / 40MHz / CP OFDM / Middle Channel / Full RB

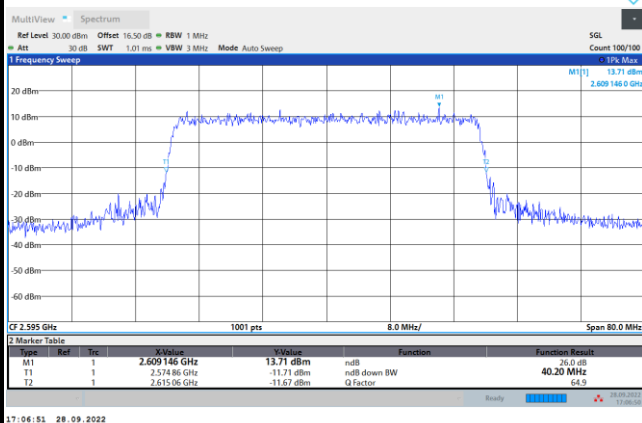
QPSK



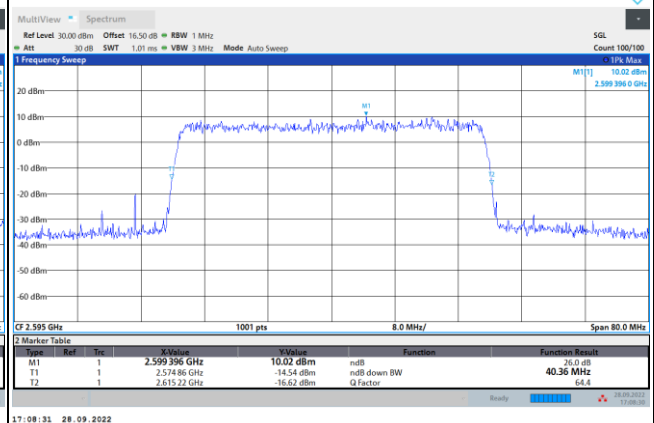
16QAM



64QAM

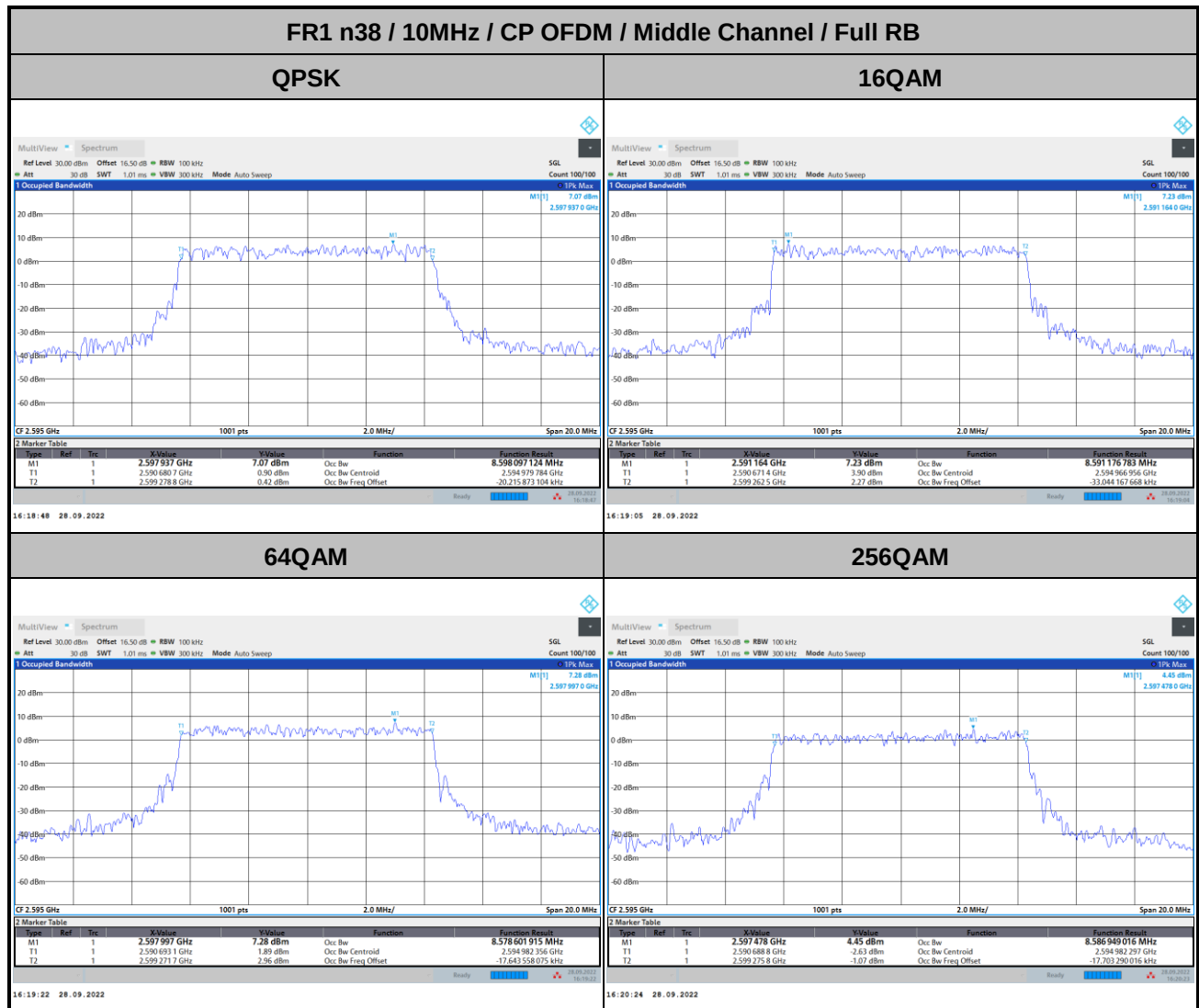


256QAM



**Occupied Bandwidth**

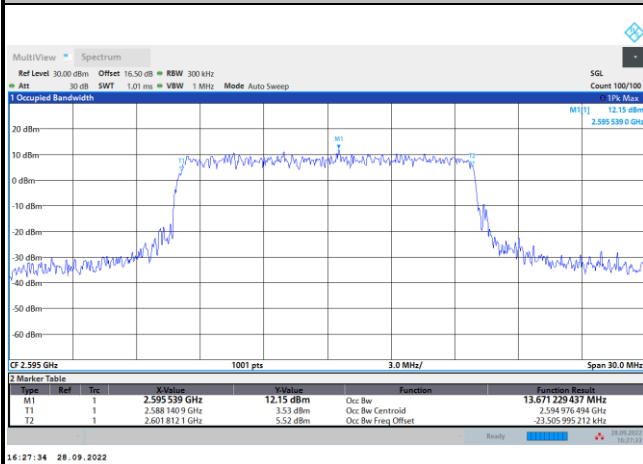
Mode	FR1 n38 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.59	8.59	13.67	13.61	18.23	18.23	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.57	8.58	13.62	13.63	18.22	18.32	-	-
BW	30MHz		40MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	27.81	27.77	37.90	37.94				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	27.91	27.88	37.96	37.94				



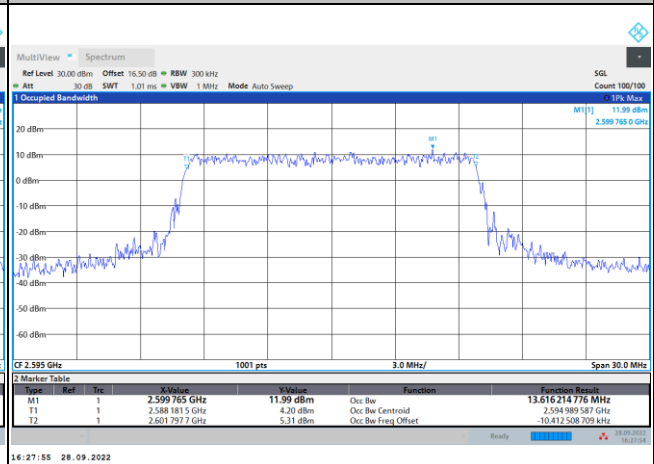


FR1 n38 / 15MHz / CP OFDM / Middle Channel / Full RB

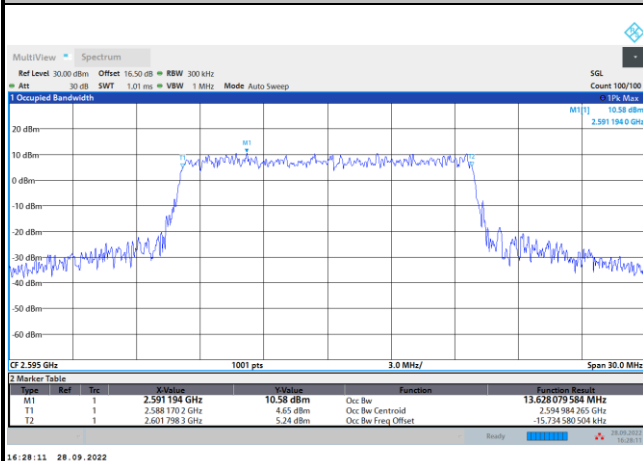
QPSK



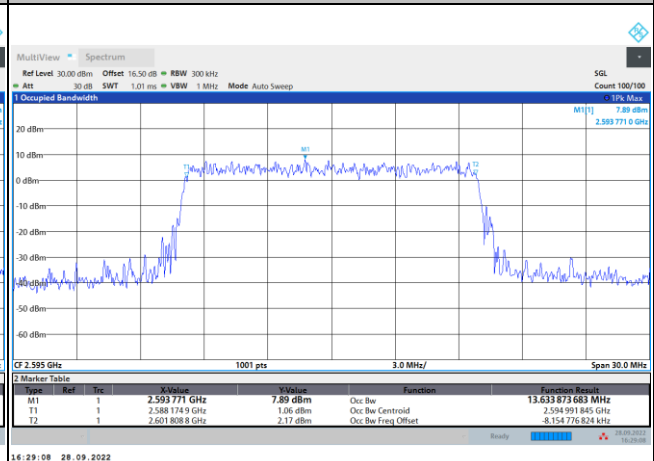
16QAM



64QAM



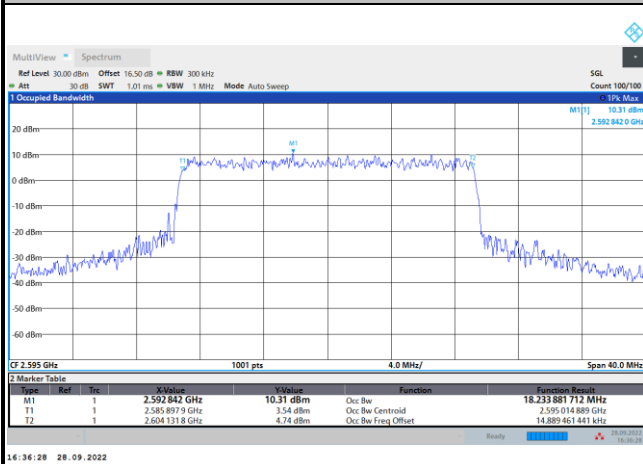
256QAM



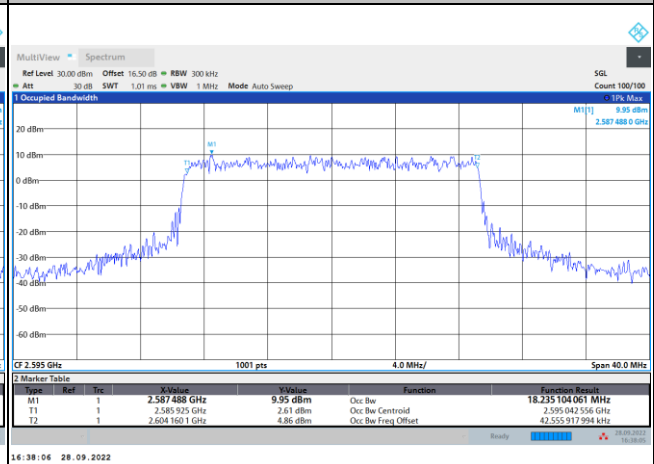


FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

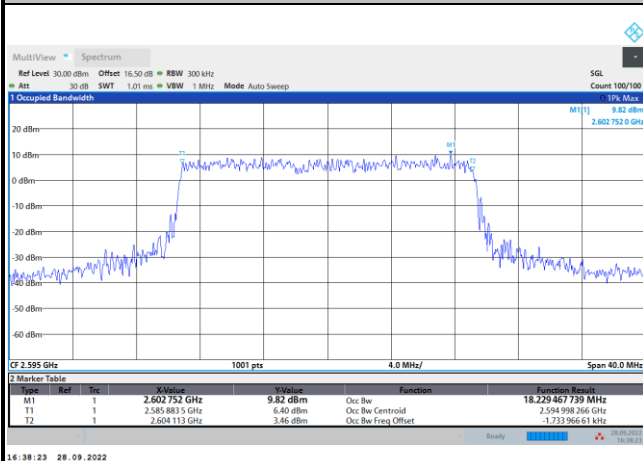
QPSK



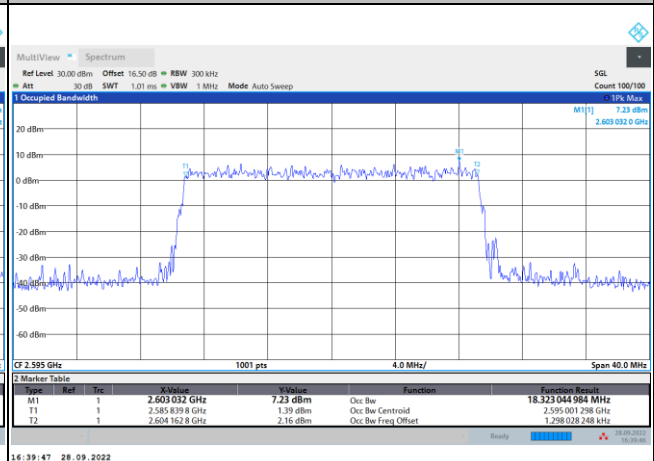
16QAM



64QAM



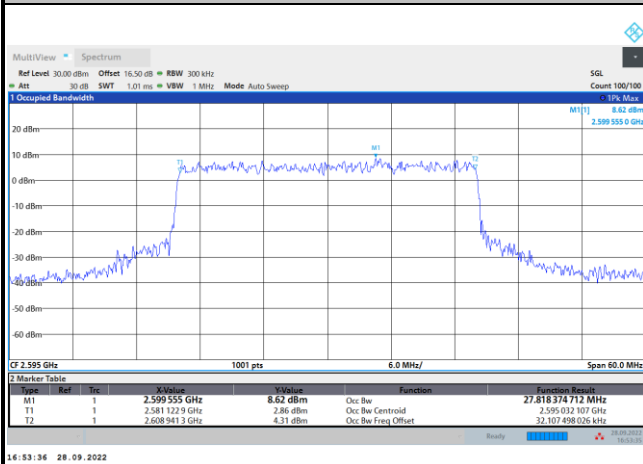
256QAM



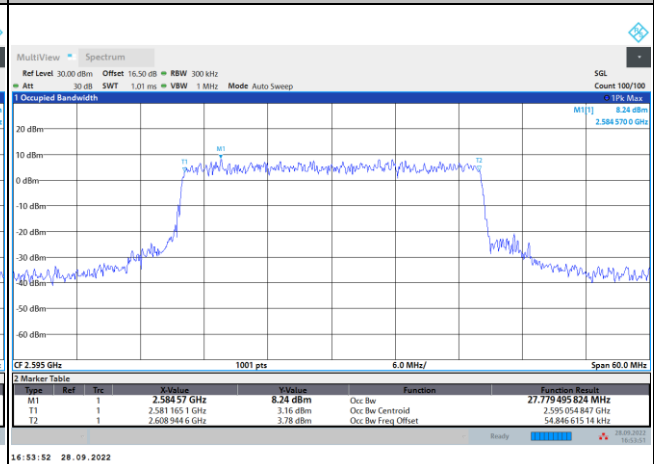


FR1 n38 / 30MHz / CP OFDM / Middle Channel / Full RB

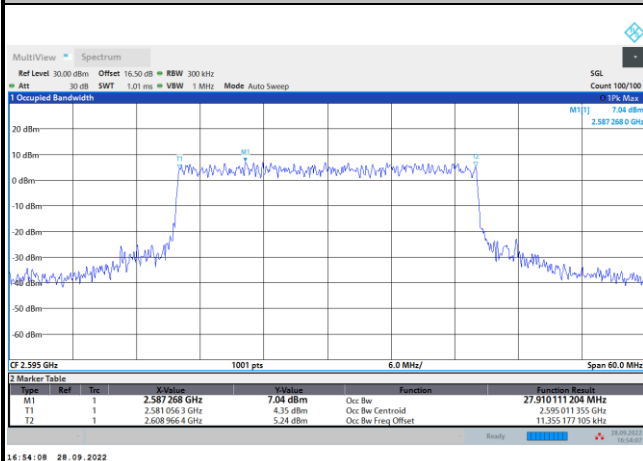
QPSK



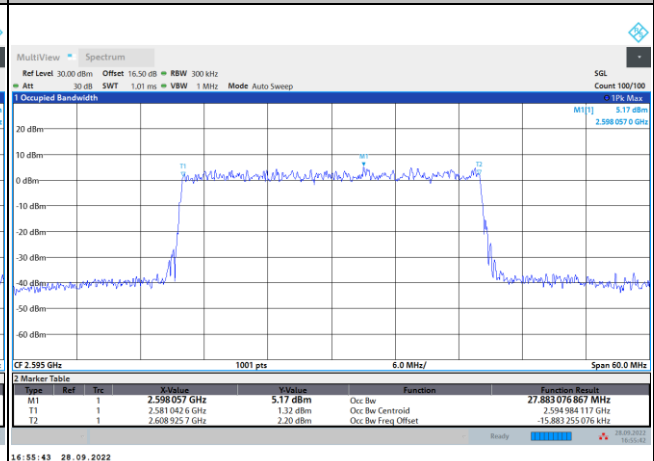
16QAM



64QAM



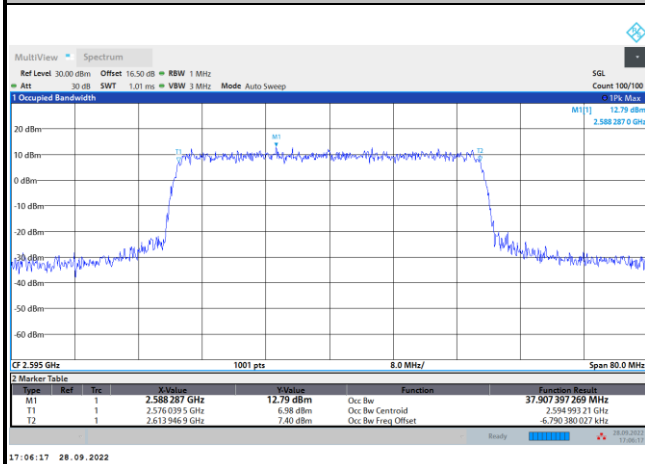
256QAM



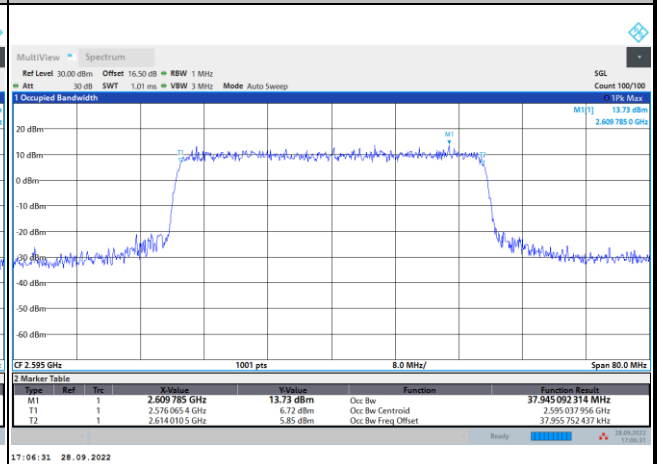


FR1 n38 / 40MHz / CP OFDM / Middle Channel / Full RB

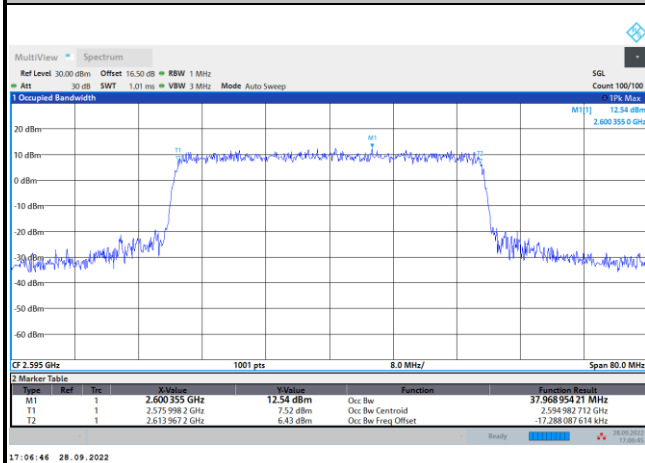
QPSK



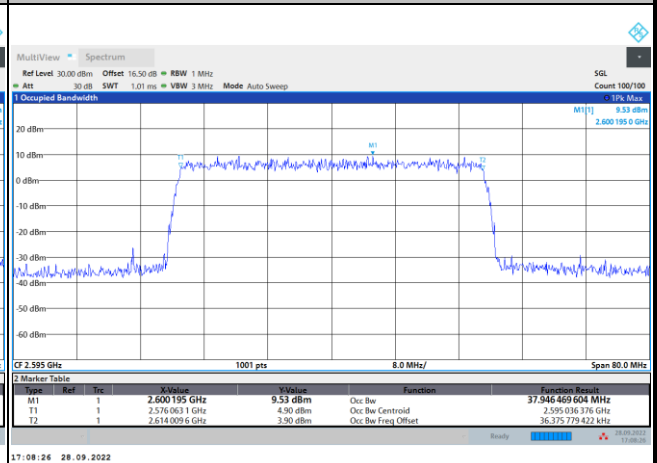
16QAM



64QAM



256QAM



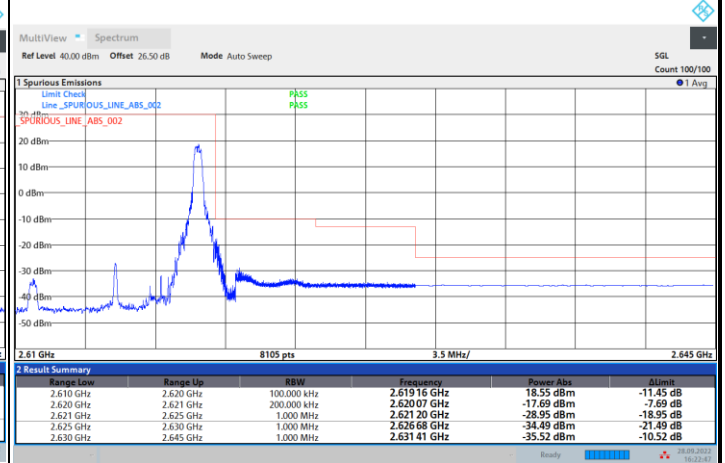
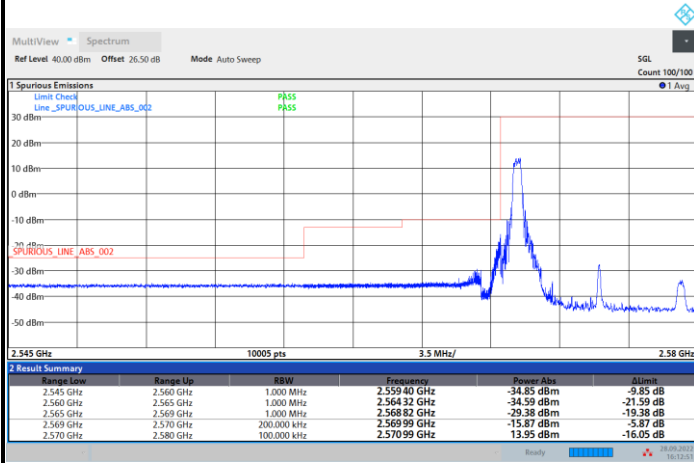


Conducted Band Edge

FR1 n38 / 10MHz / CP OFDM / QPSK

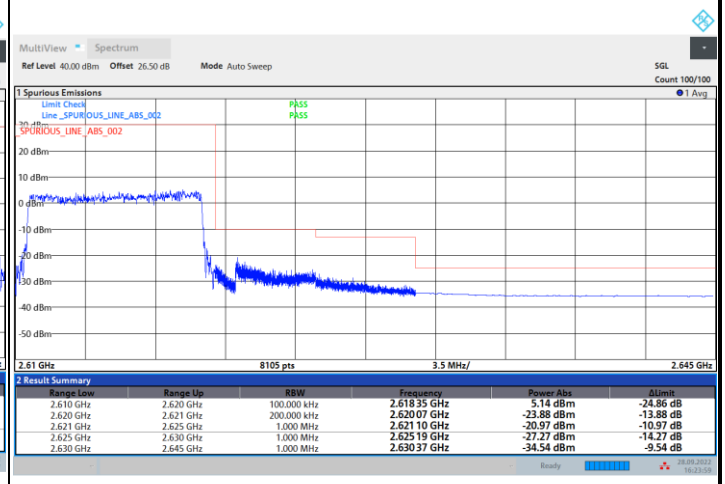
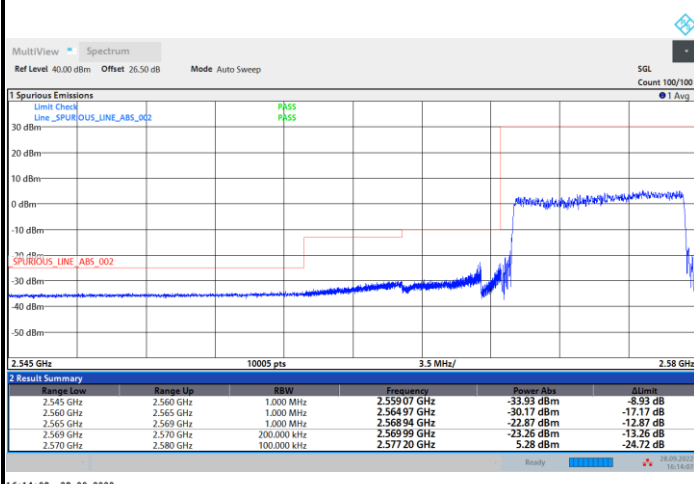
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

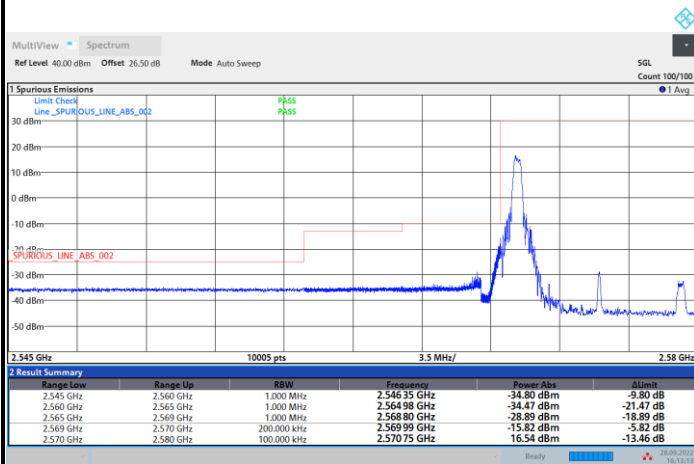




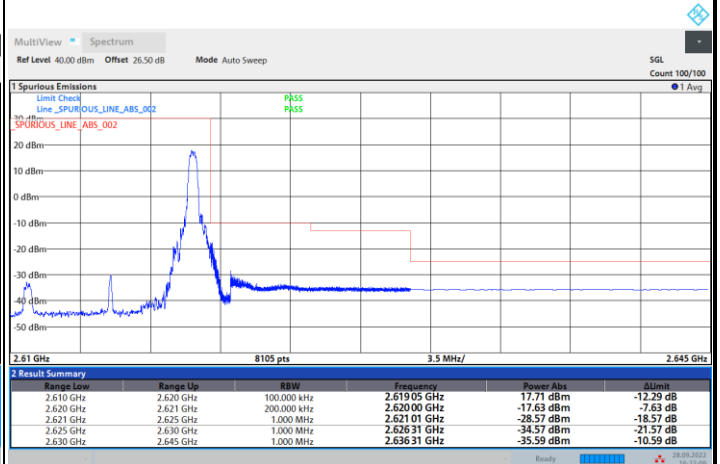
FR1 n38 / 10MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



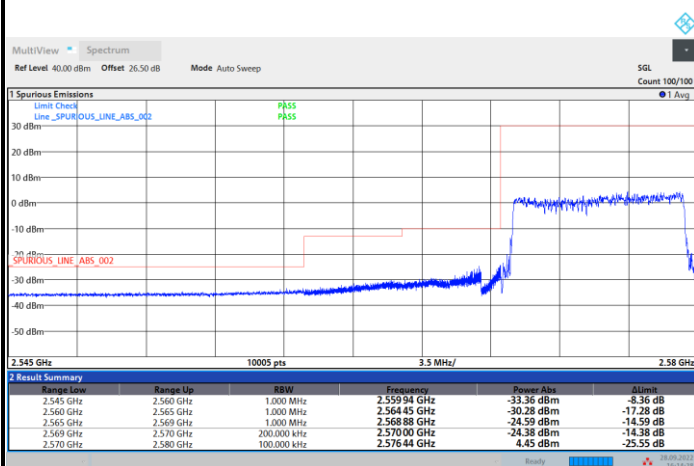
16:13:13 28.09.2022



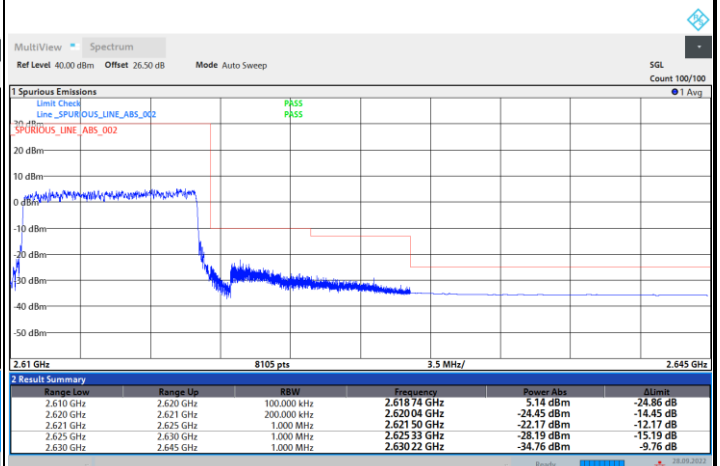
16:23:10 28.09.2022

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



16:14:29 28.09.2022



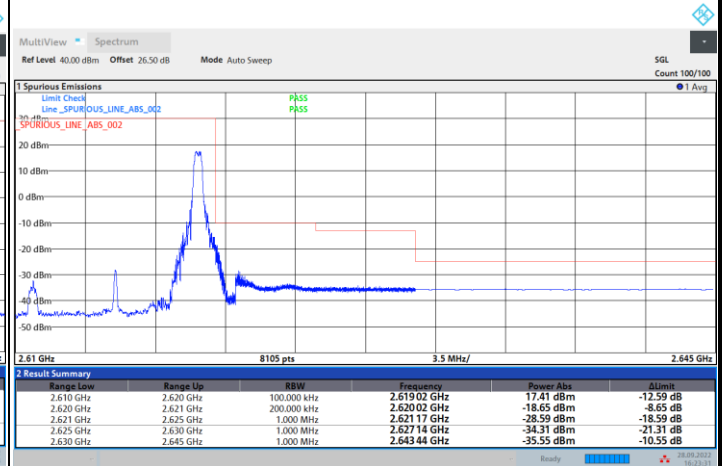
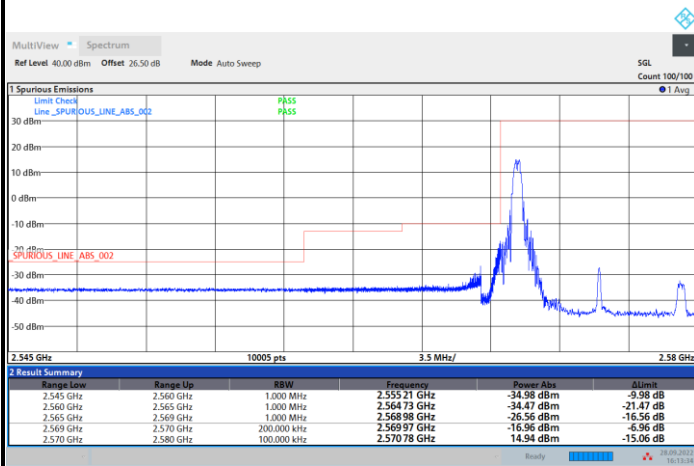
16:24:18 28.09.2022



FR1 n38 / 10MHz / CP OFDM / 64QAM

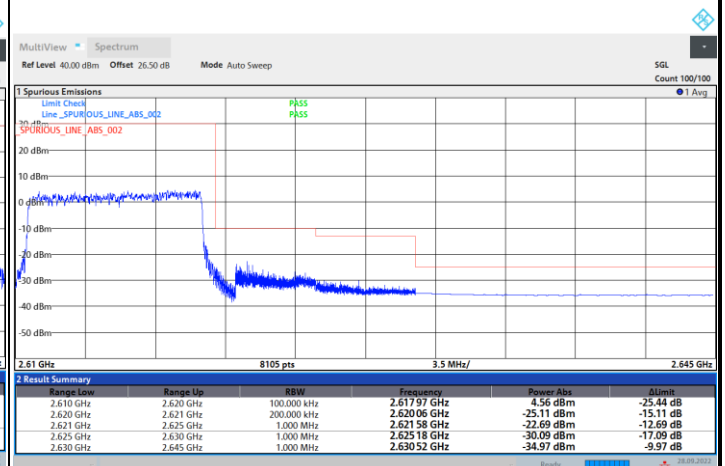
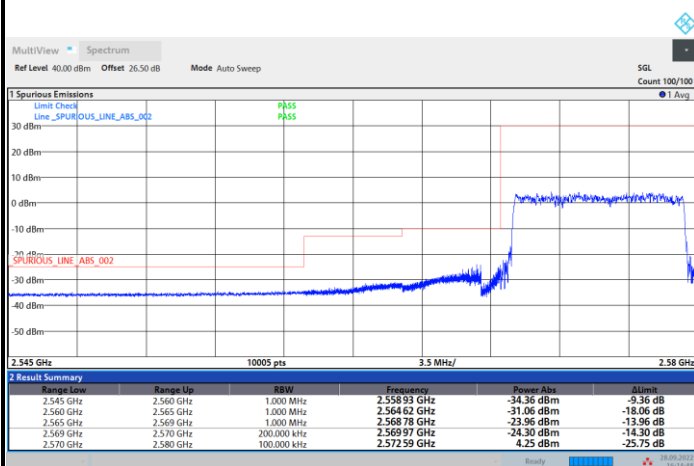
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

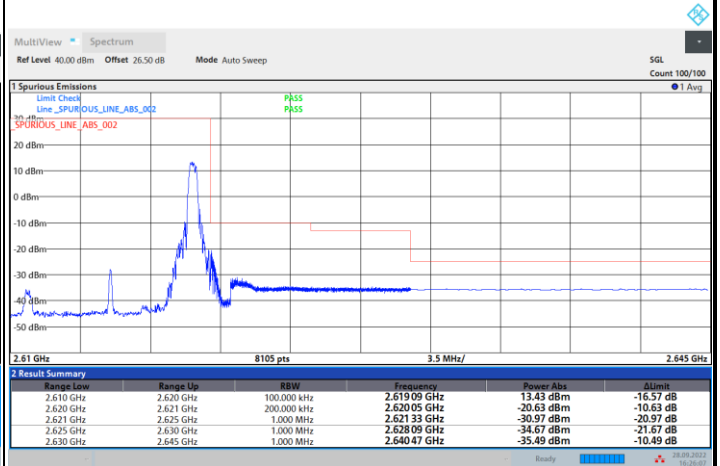
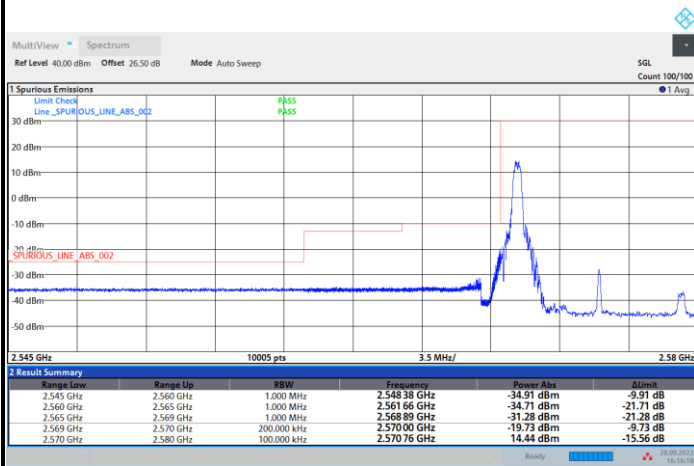




FR1 n38 / 10MHz / CP OFDM / 256QAM

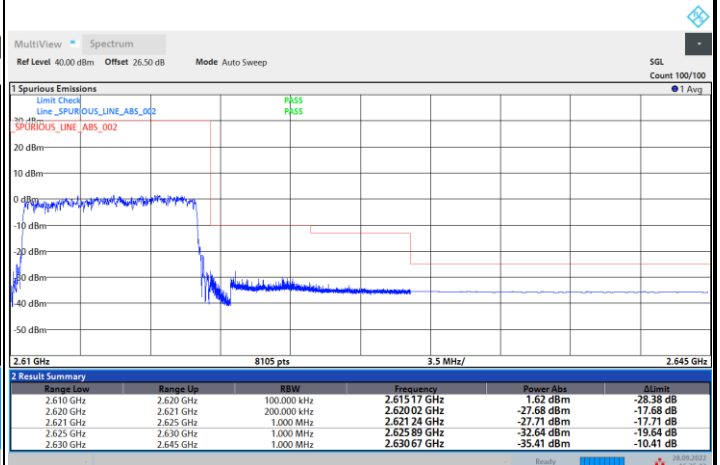
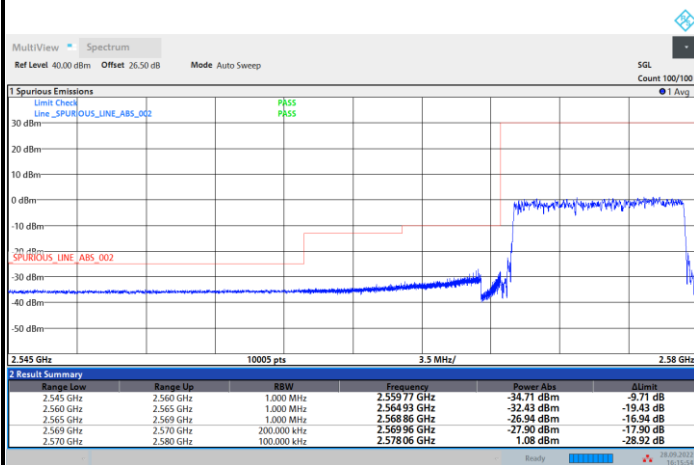
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

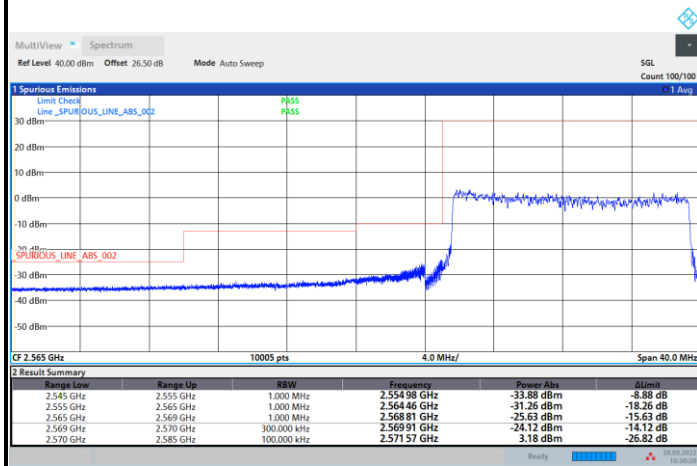
Highest Band Edge / Full RB





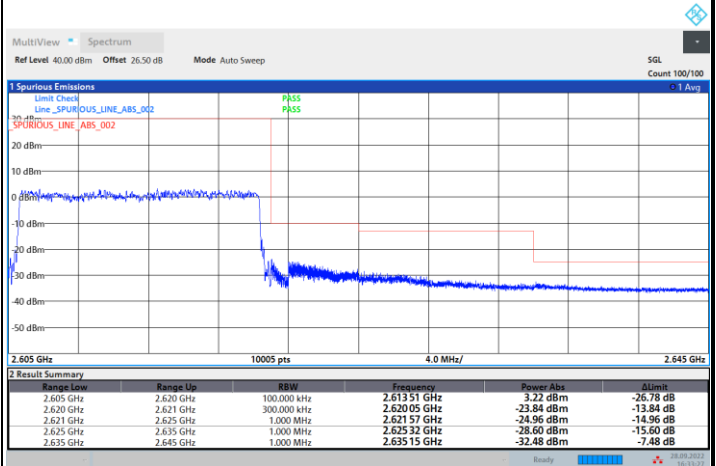
FR1 n38 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



16:30:29 28.09.2022

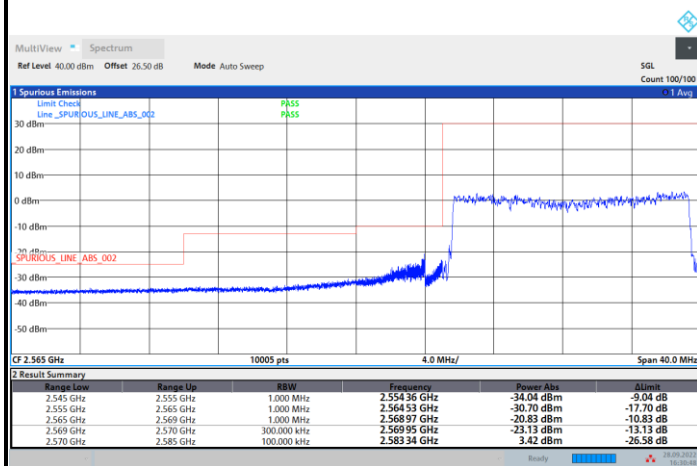
Highest Band Edge / Full RB



16:33:27 28.09.2022

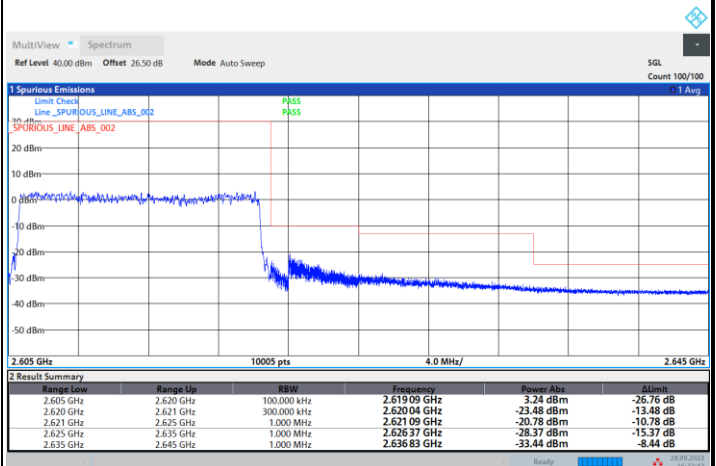
FR1 n38 / 15MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



16:30:48 28.09.2022

Highest Band Edge / Full RB

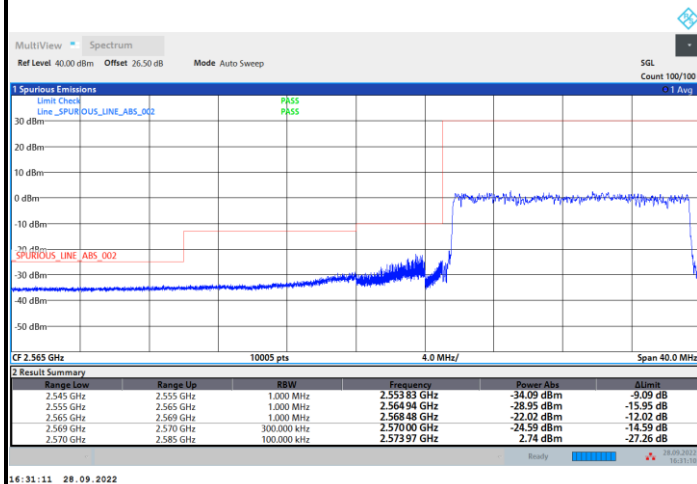


16:33:47 28.09.2022



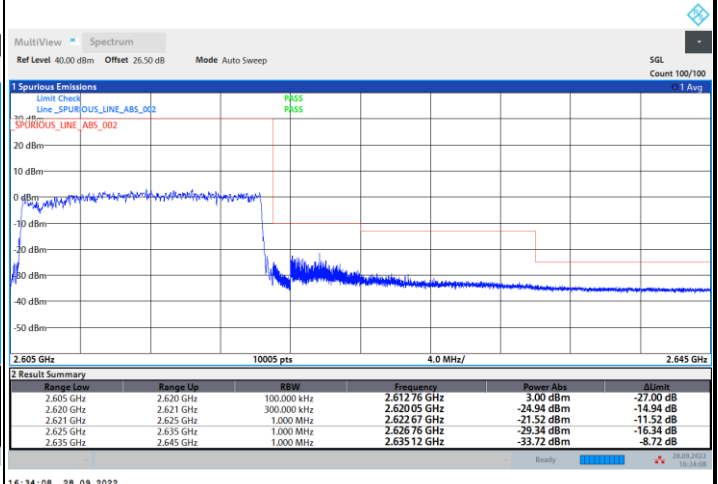
FR1 n38 / 15MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



16:31:11 28.09.2022

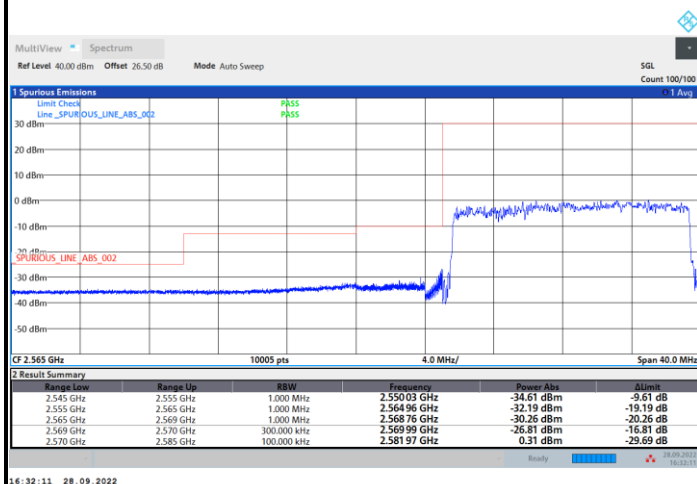
Highest Band Edge / Full RB



16:34:08 28.09.2022

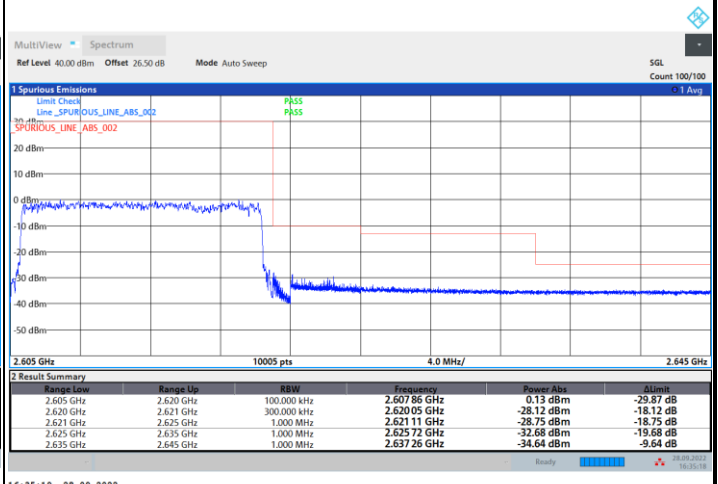
FR1 n38 / 15MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

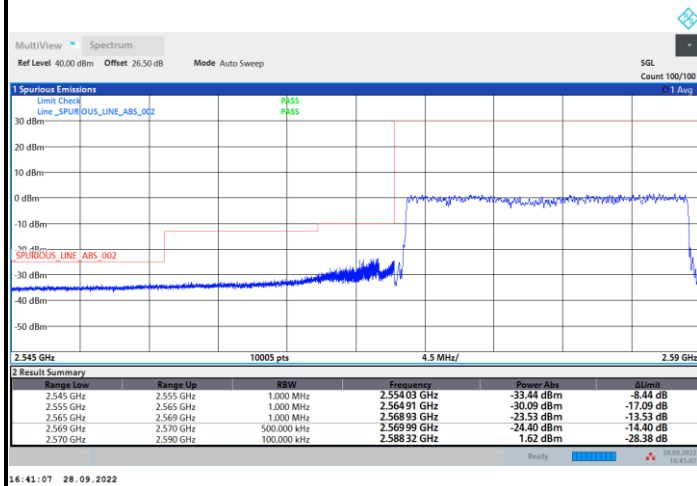
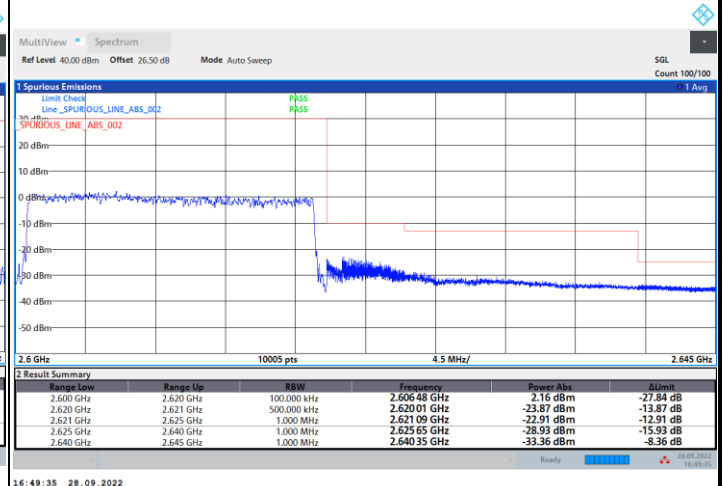
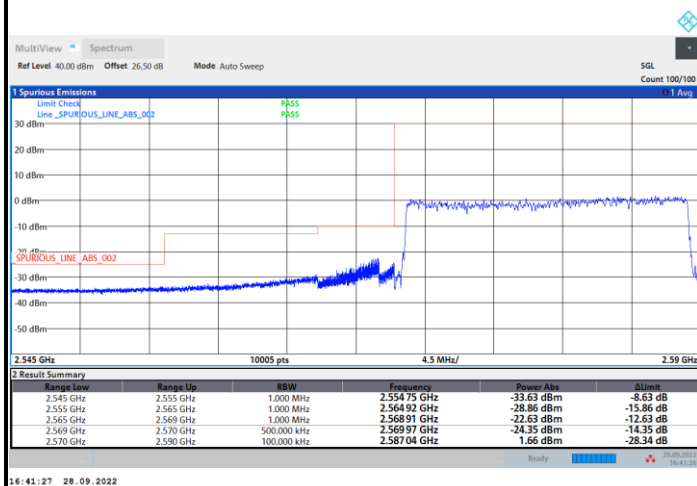
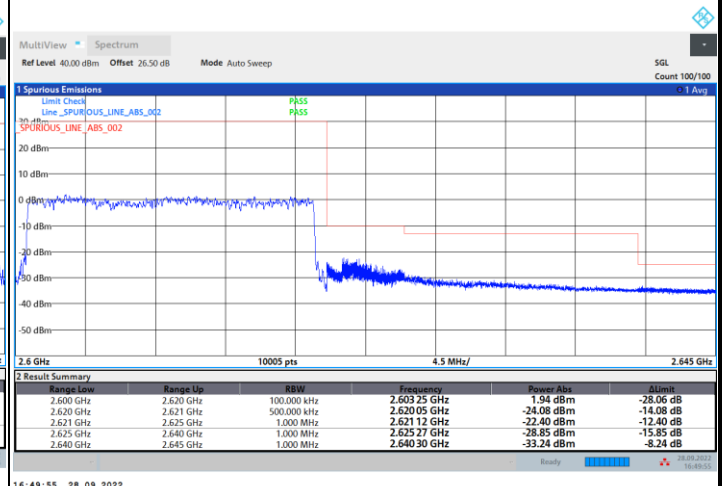


16:32:11 28.09.2022

Highest Band Edge / Full RB



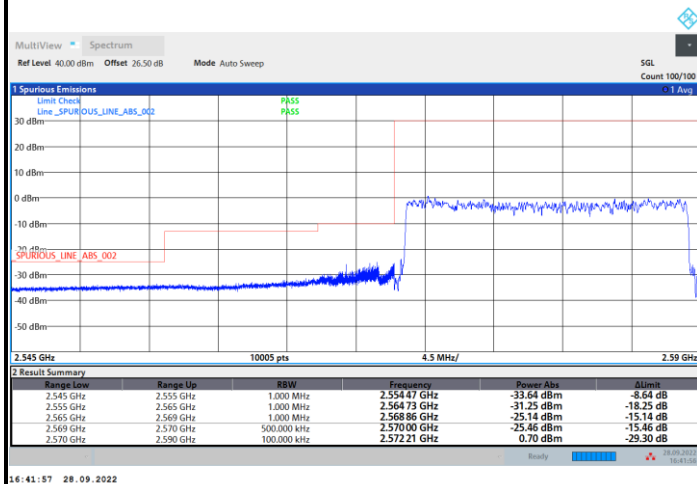
16:35:19 28.09.2022

**FR1 n38 / 20MHz / CP OFDM / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n38 / 20MHz / CP OFDM / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

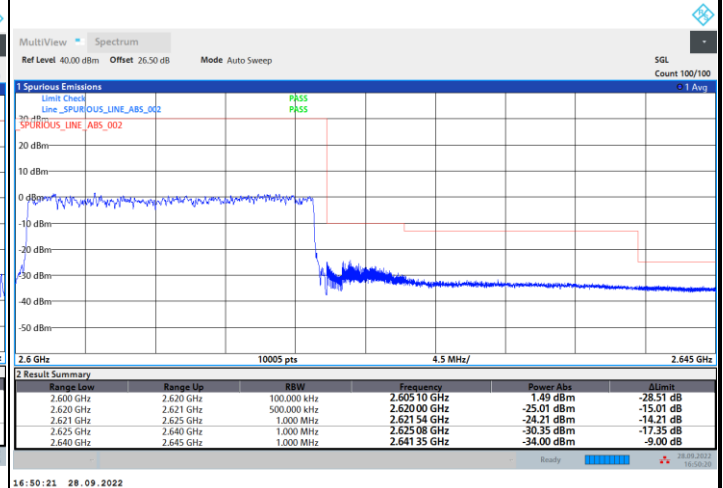


FR1 n38 / 20MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

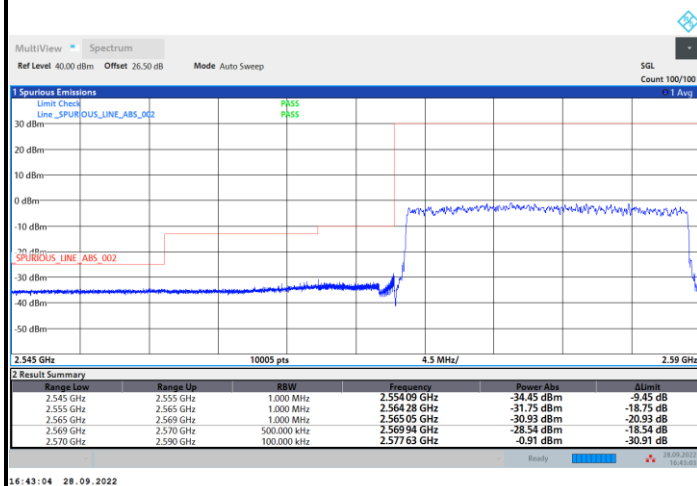


Highest Band Edge / Full RB

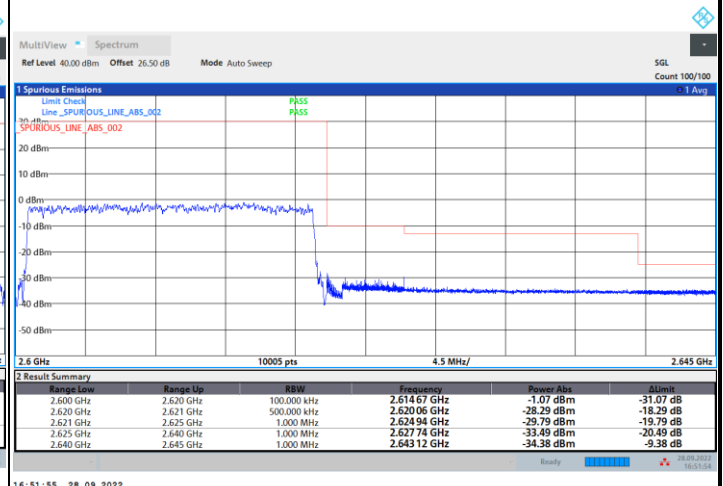


FR1 n38 / 20MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



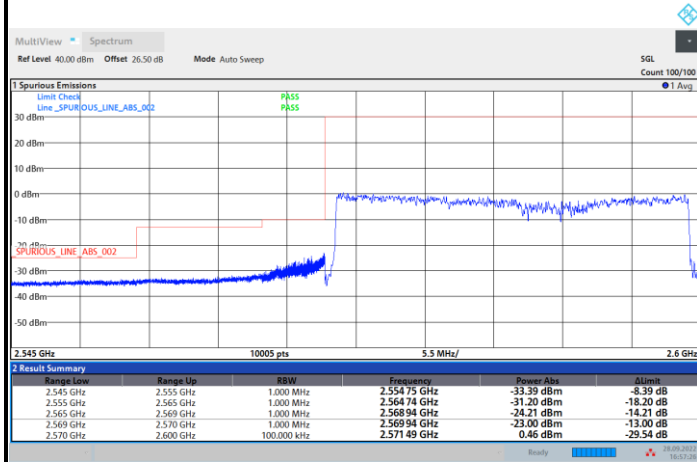
Highest Band Edge / Full RB



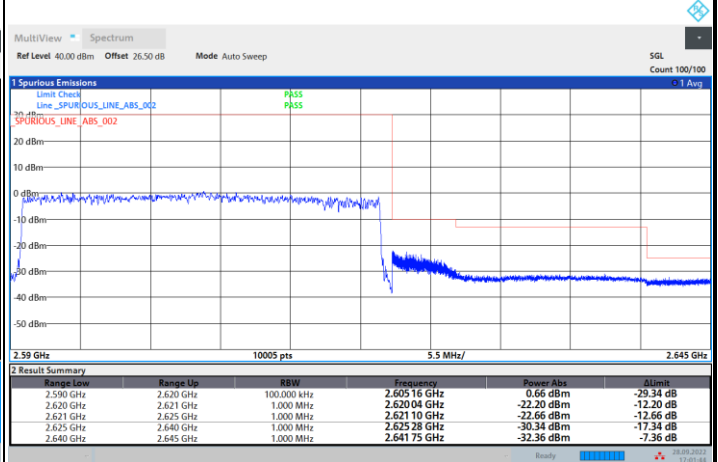


FR1 n38 / 30MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

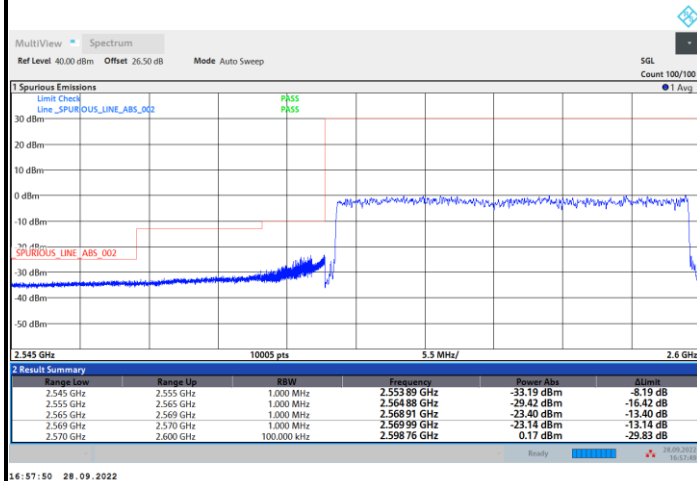


Highest Band Edge / Full RB

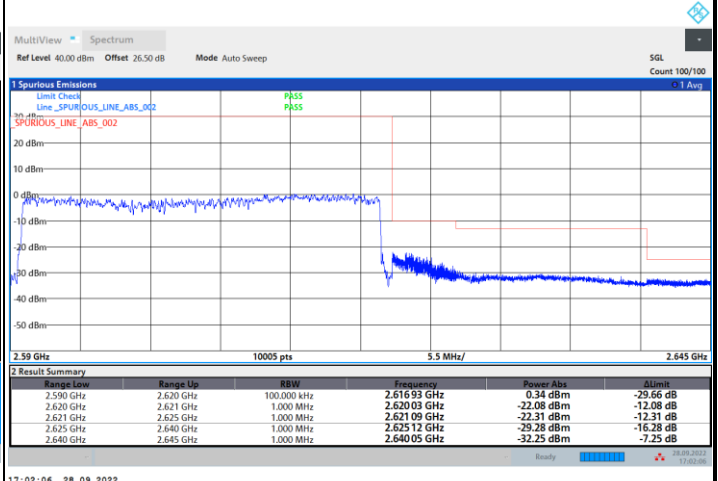


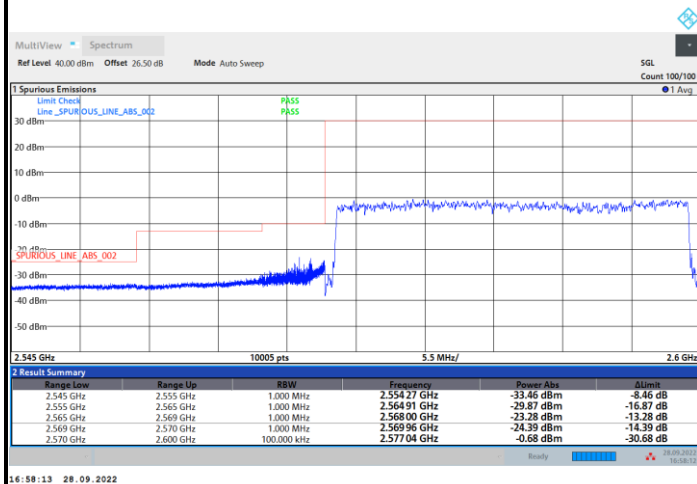
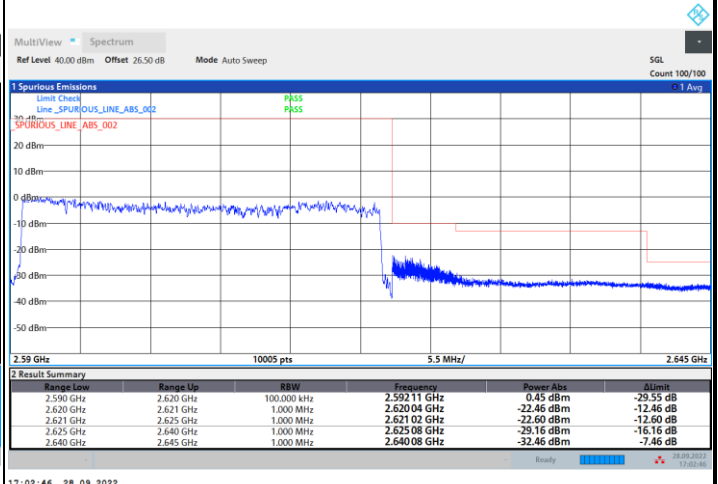
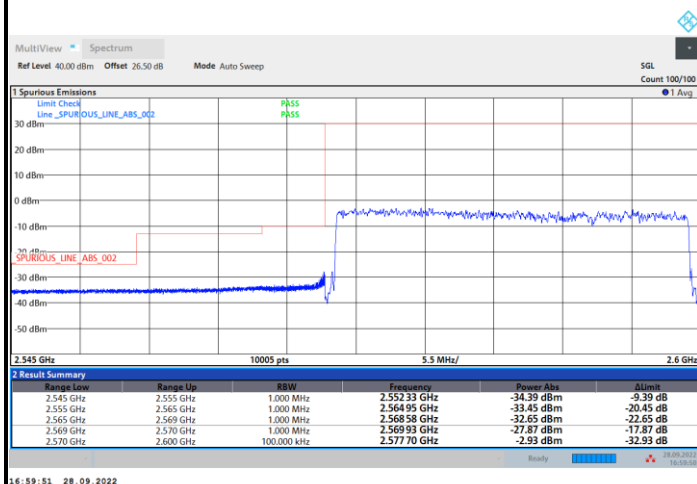
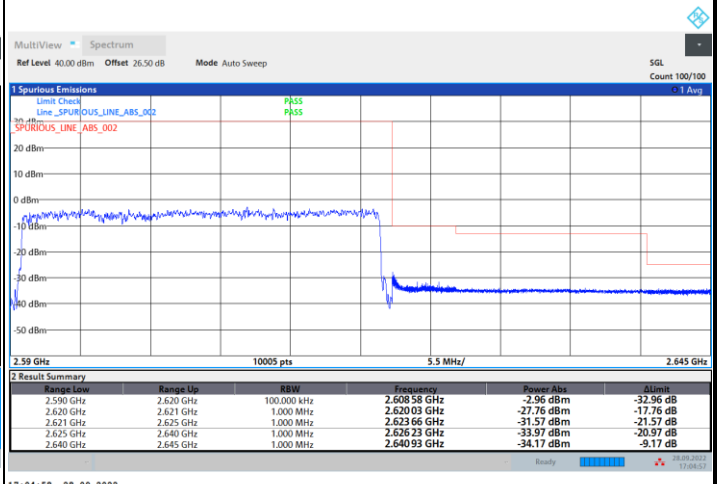
FR1 n38 / 30MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

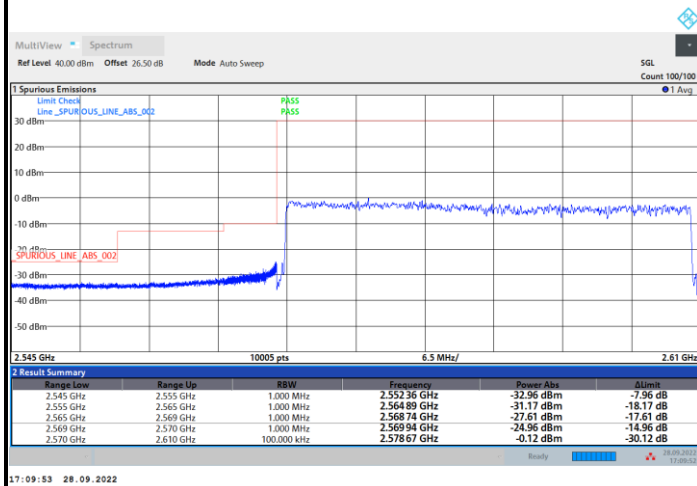


**FR1 n38 / 30MHz / CP OFDM / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n38 / 30MHz / CP OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

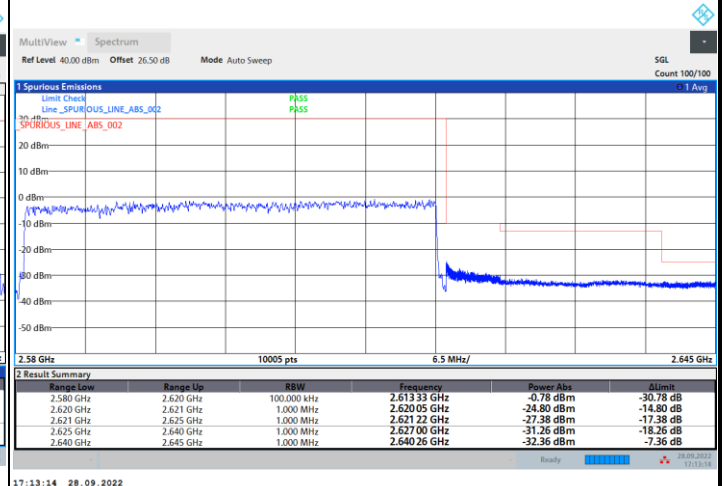


FR1 n38 / 40MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

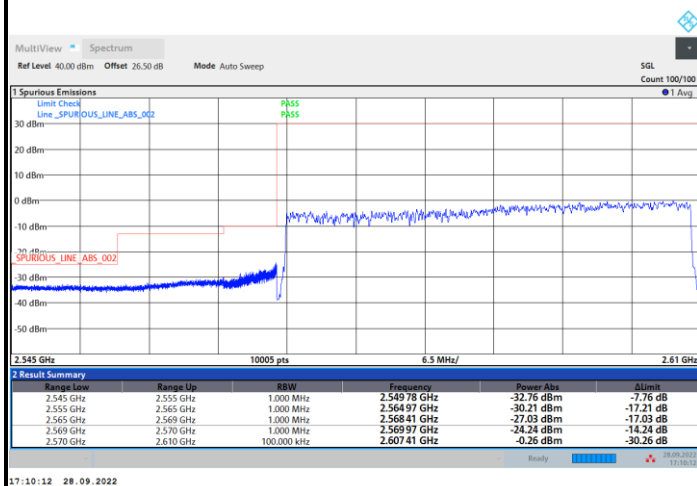


Highest Band Edge / Full RB

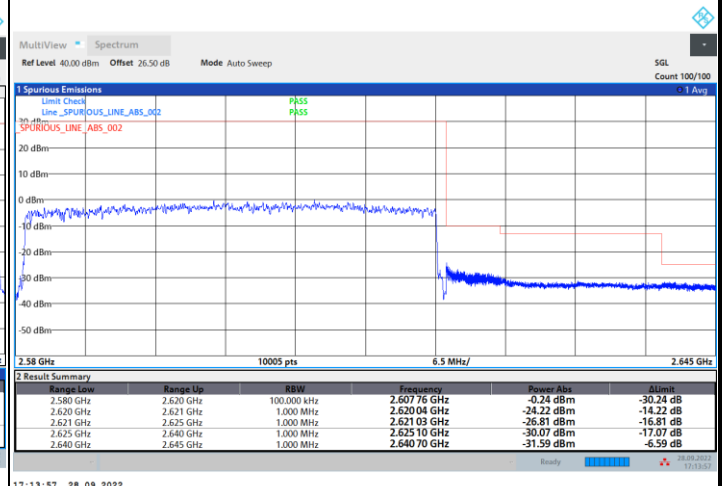


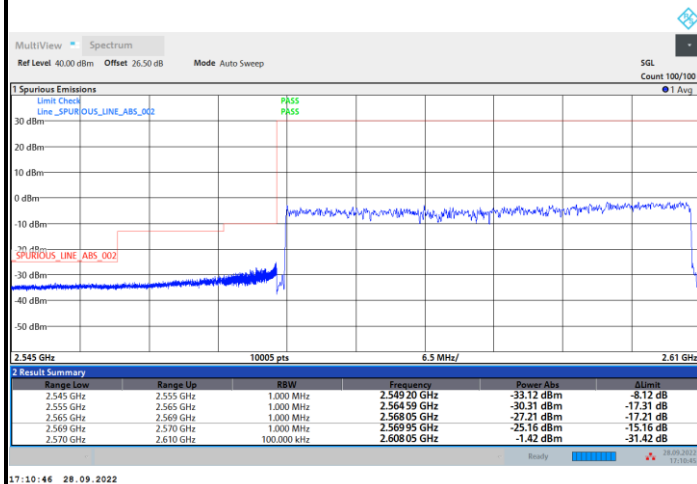
FR1 n38 / 40MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

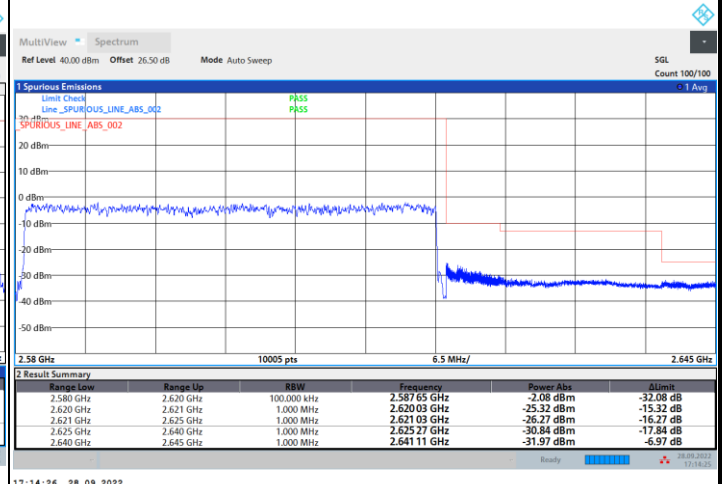


Highest Band Edge / Full RB

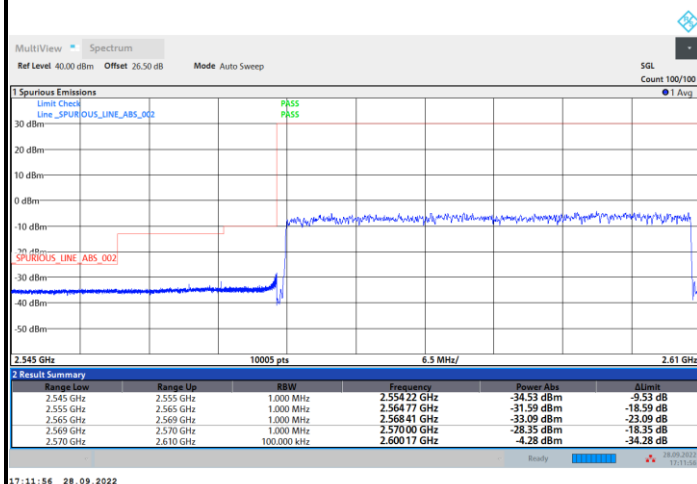


**FR1 n38 / 40MHz / CP OFDM / 64QAM****Lowest Band Edge / Full RB**

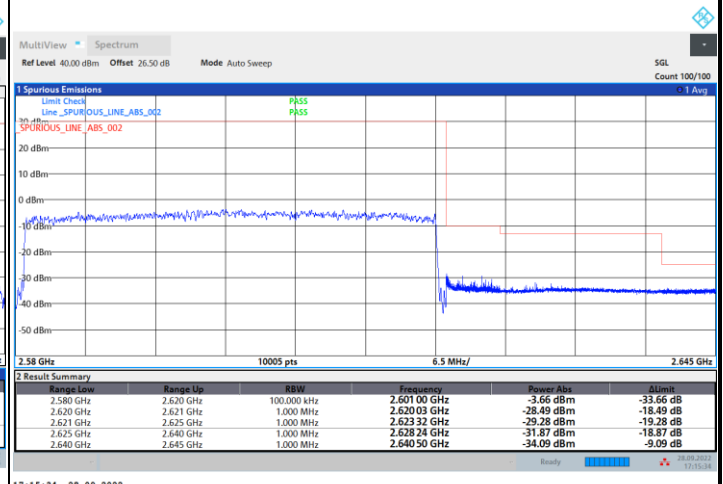
17:10:46 28.09.2022

Highest Band Edge / Full RB

17:14:26 28.09.2022

FR1 n38 / 40MHz / CP OFDM / 256QAM**Lowest Band Edge / Full RB**

17:11:56 28.09.2022

Highest Band Edge / Full RB

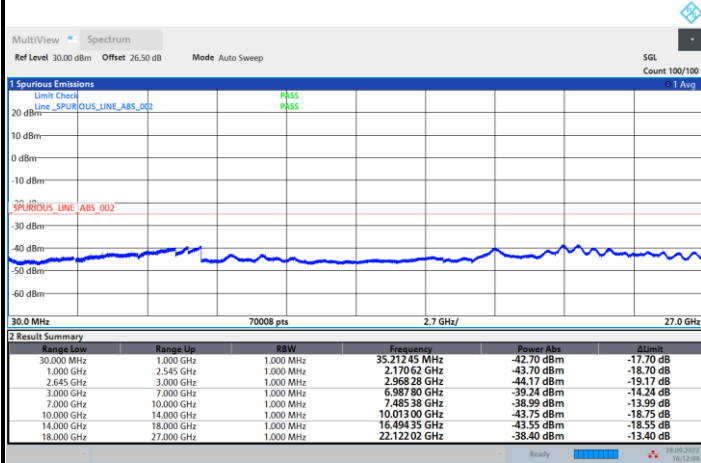
17:15:34 28.09.2022



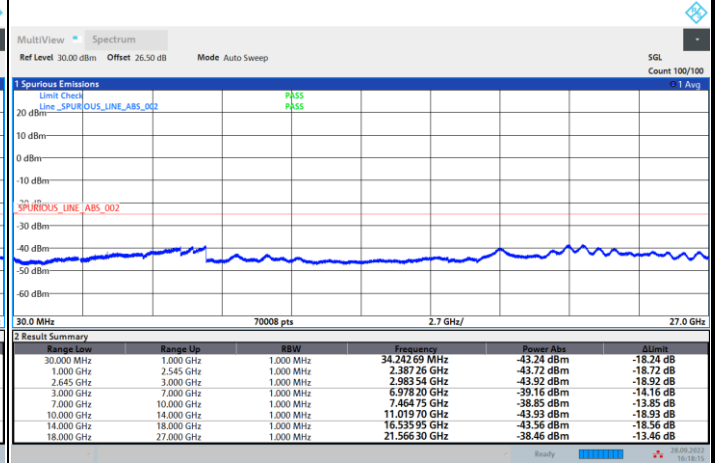
Conducted Spurious Emission

FR1 n38 / 10MHz / CP OFDM / QPSK / 1RB1

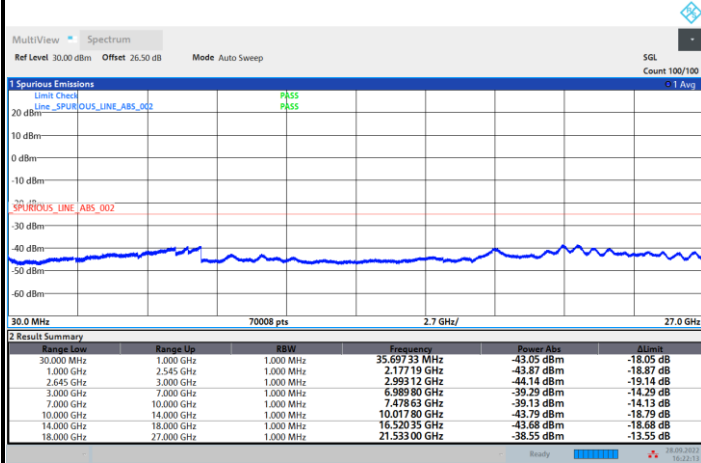
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

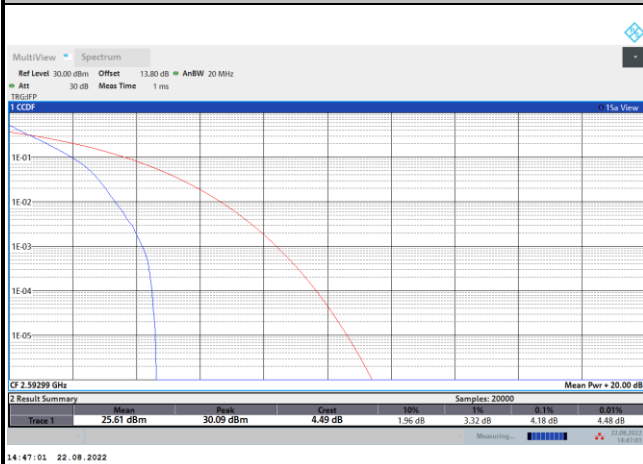
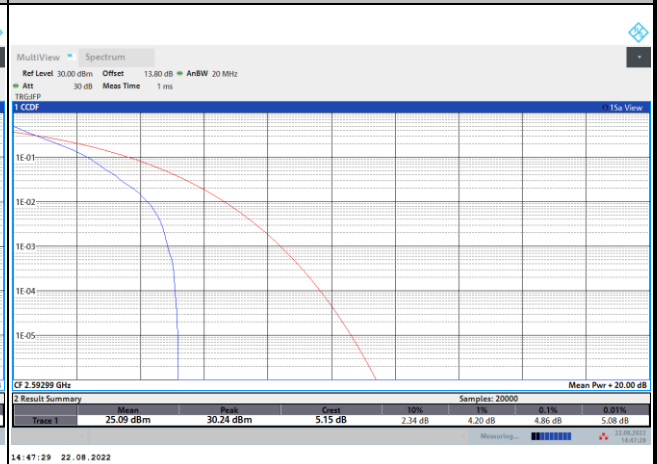
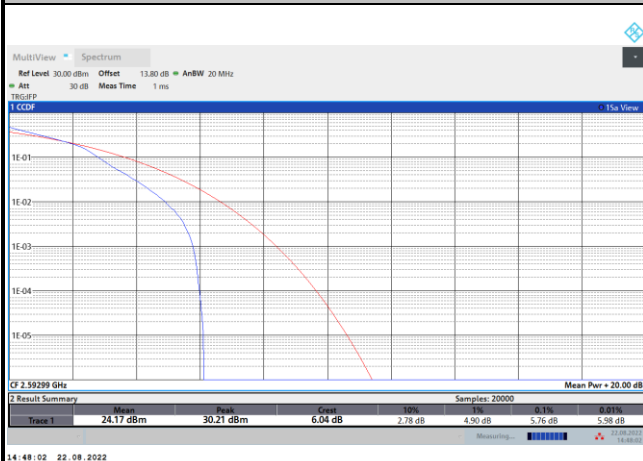
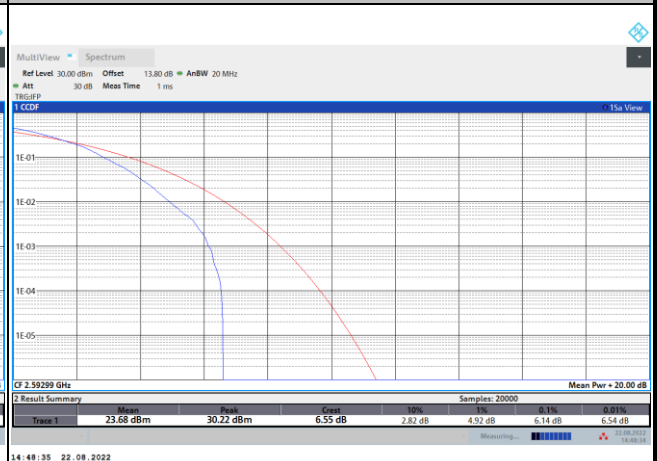
1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n41**

<SISO Mode>

Peak-to-Average Ratio

Mode	FR1 n41 / 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	4.18	4.86	5.76	6.14	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.52				PASS

FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

QPSK

16QAM

64QAM

256QAM
