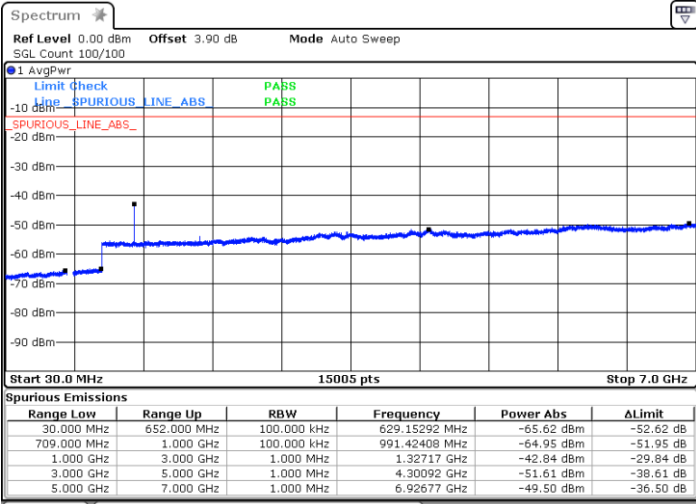




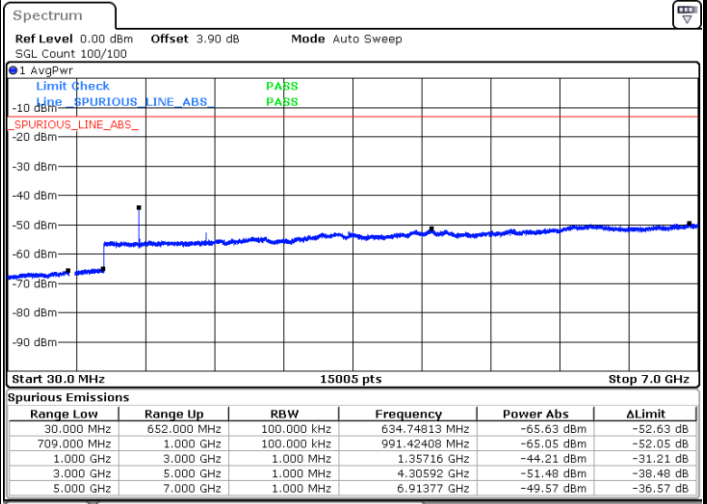
FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

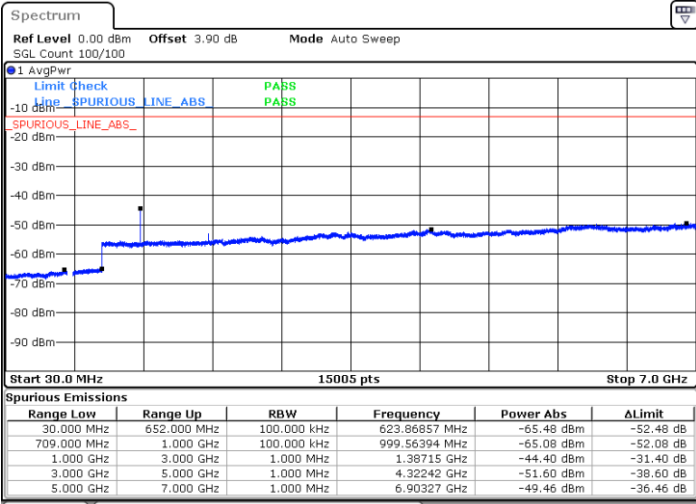


Date: 3.MAR.2021 07:31:50



Date: 3.MAR.2021 07:33:15

Highest Channel / 1RB



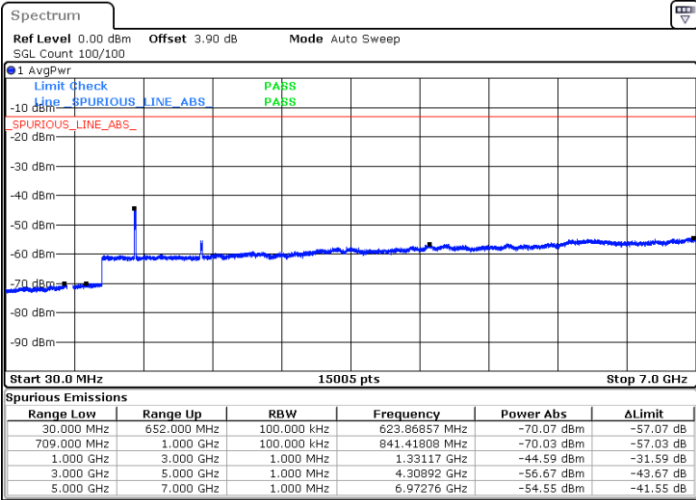
Date: 3.MAR.2021 07:33:47



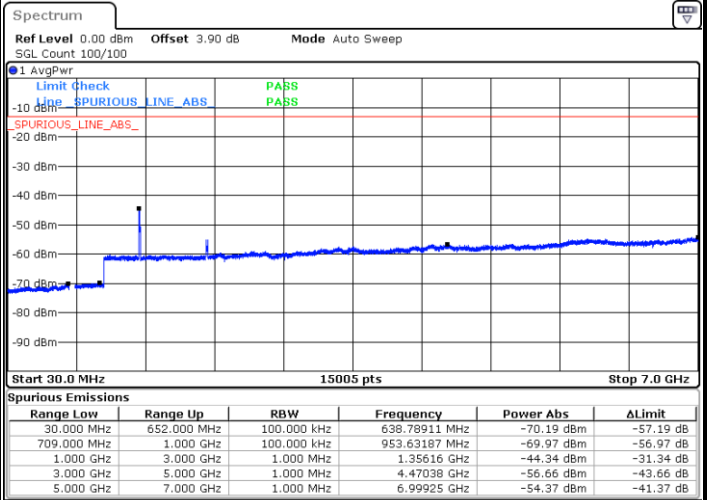
FR1 n71 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

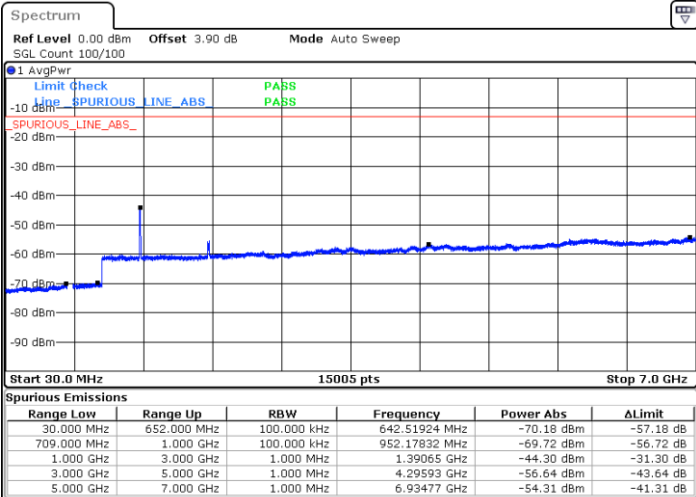


Date: 3.MAR.2021 06:53:31



Date: 3.MAR.2021 06:56:31

Highest Channel / 1RB



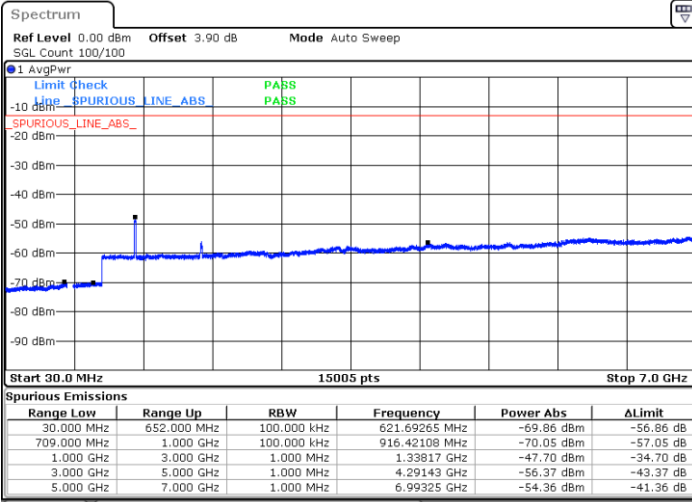
Date: 3.MAR.2021 06:59:19



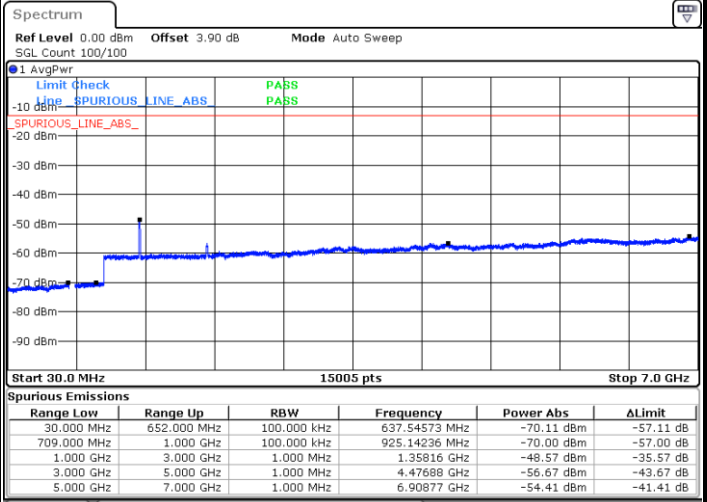
FR1 n71 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

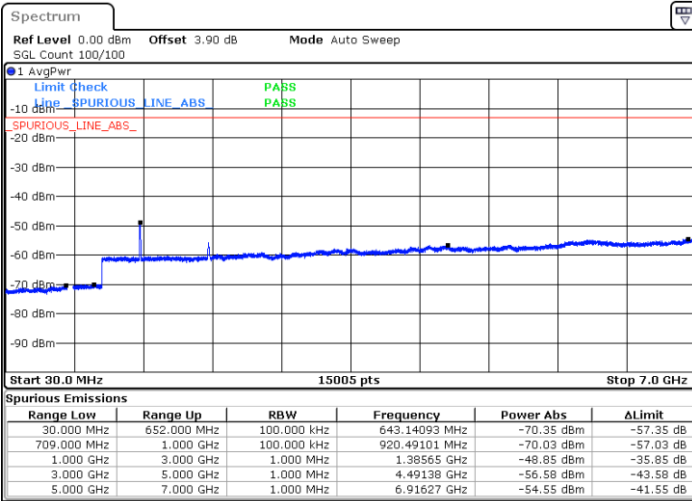


Date: 3.MAR.2021 06:55:17



Date: 3.MAR.2021 06:56:00

Highest Channel / 1RB



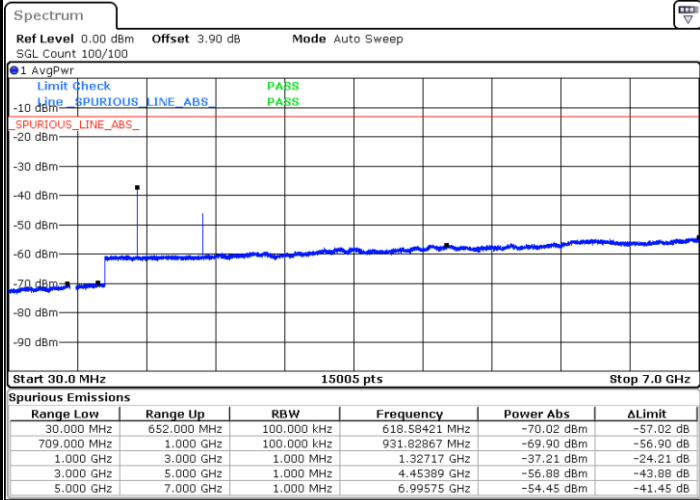
Date: 3.MAR.2021 07:30:56



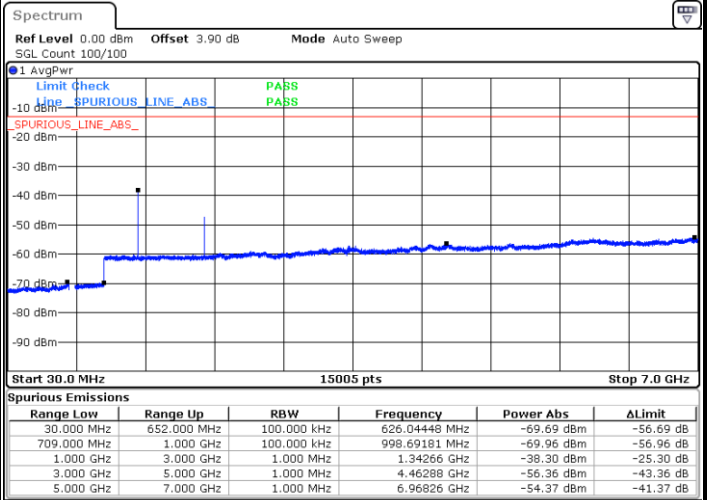
FR1 n71 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

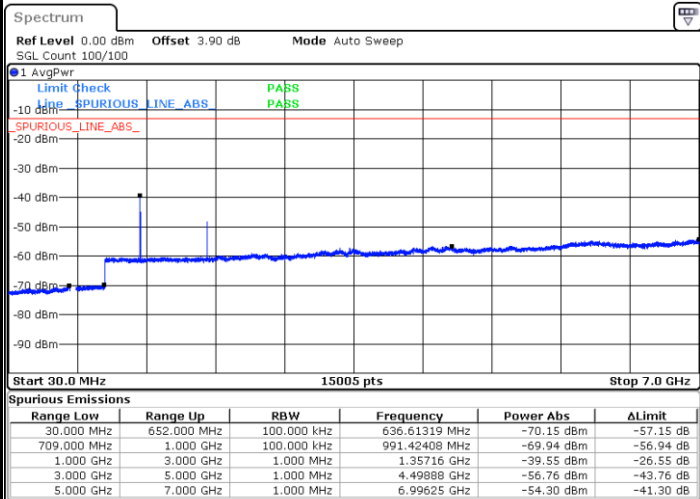


Date: 3.MAR.2021 06:47:02



Date: 3.MAR.2021 06:44:03

Highest Channel / 1RB



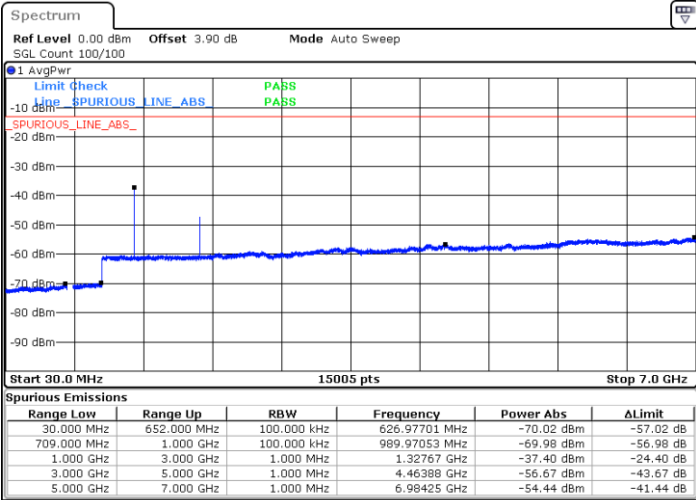
Date: 3.MAR.2021 06:52:22



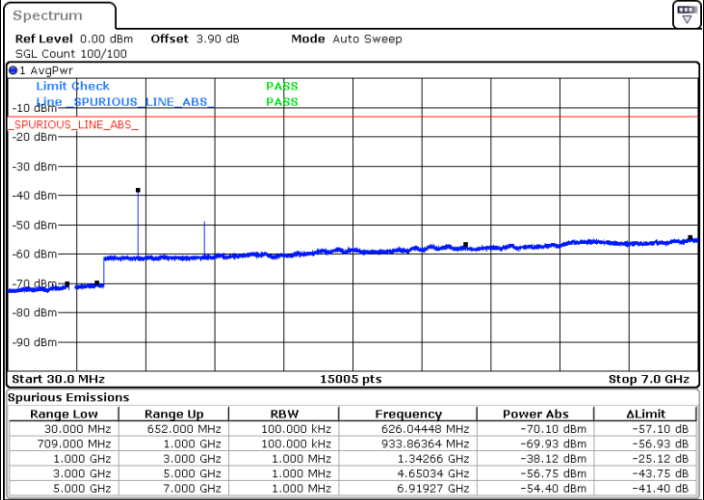
FR1 n71 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

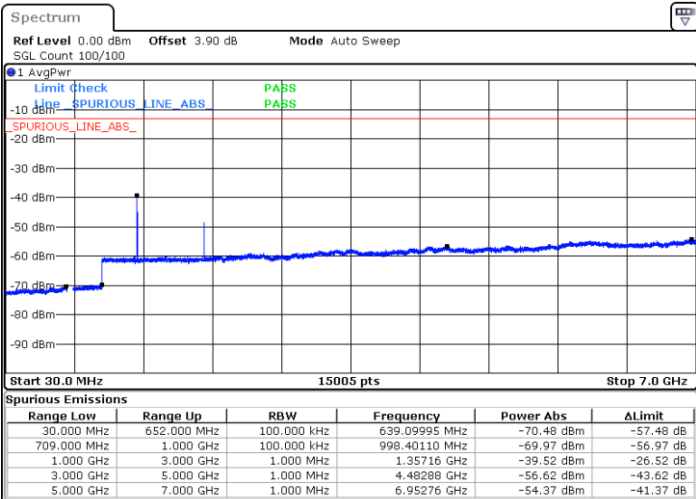


Date: 3.MAR.2021 06:47:36



Date: 3.MAR.2021 06:43:36

Highest Channel / 1RB



Date: 3.MAR.2021 06:51:51



Frequency Stability

Test Conditions		NR n71 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0014	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n77 SA-SCS 15K

Peak-to-Average Ratio

Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.81	4.09	5.57	5.62	PASS
Middle CH	4.64	3.88	6.06	5.25	
Highest CH	4.52	4.00	5.54	5.36	



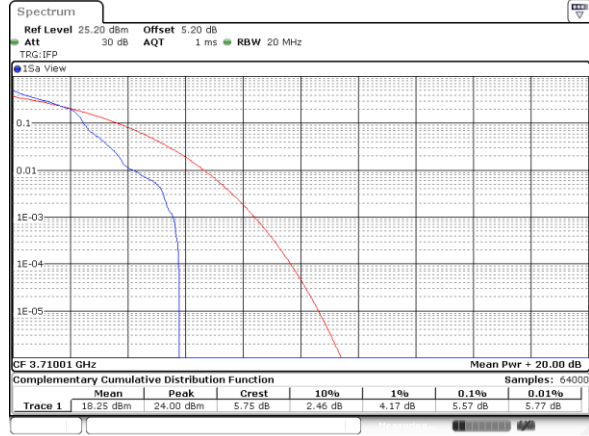
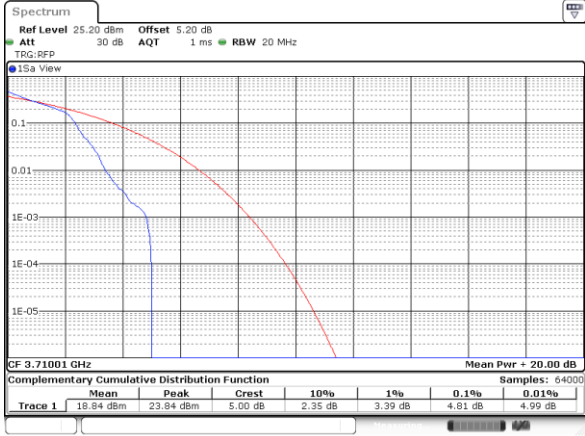
FR1 n77 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

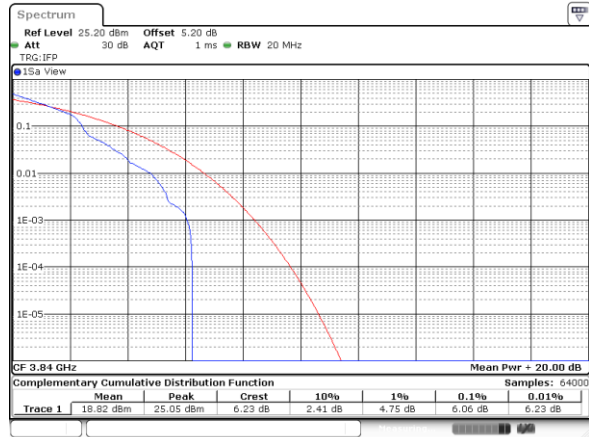
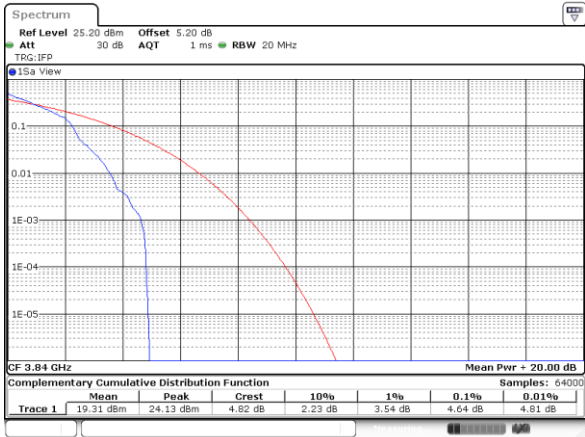


Date: 1.FEB.2021 23:08:20

Date: 1.FEB.2021 23:07:45

Middle Channel / 1 RB

Middle Channel / 1 RB

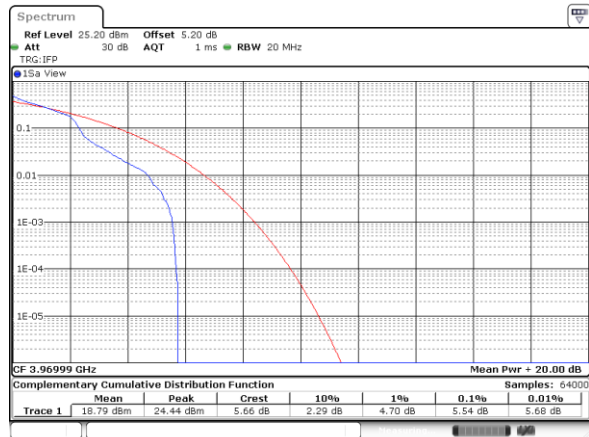
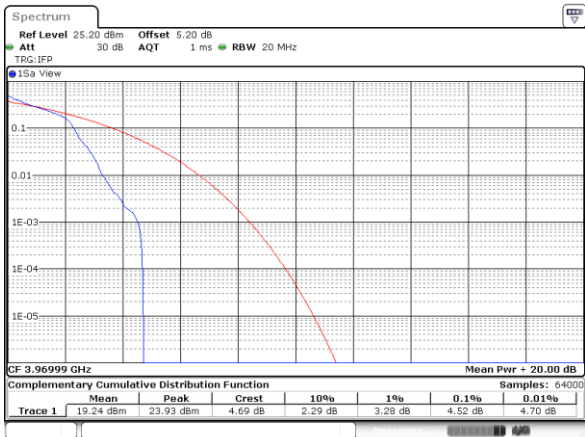


Date: 1.FEB.2021 22:51:45

Date: 1.FEB.2021 23:11:14

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 1.FEB.2021 23:12:35

Date: 1.FEB.2021 23:12:13



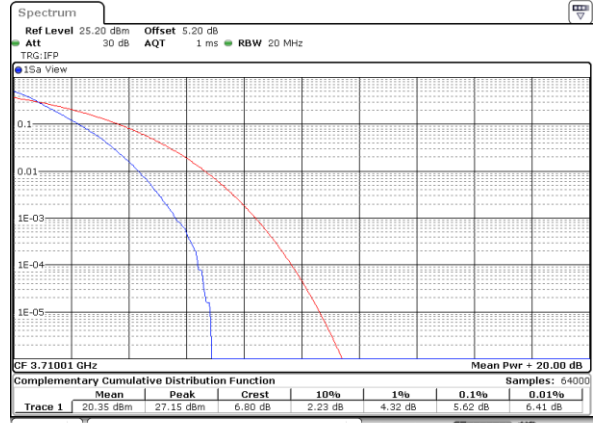
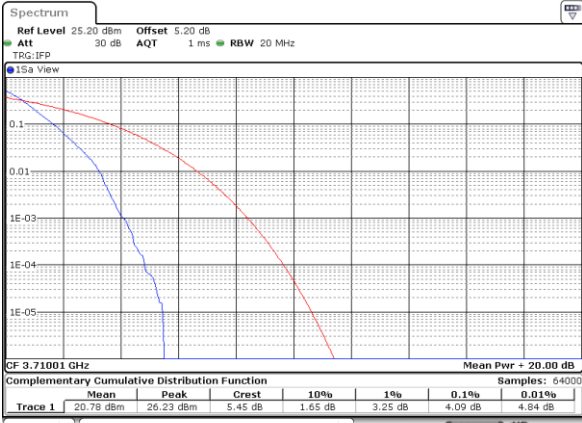
FR1 n77 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

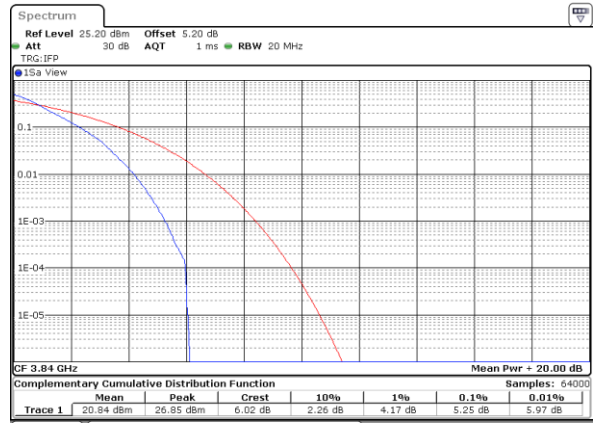
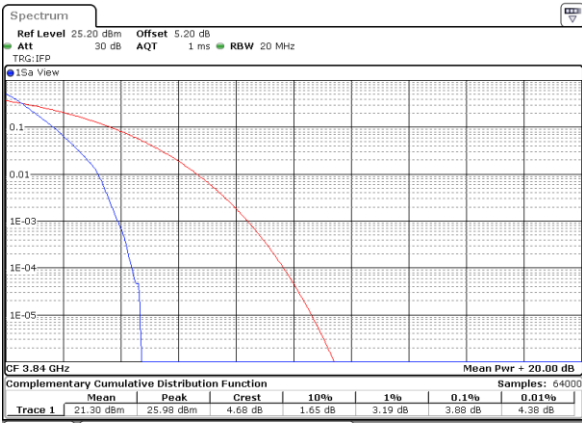


Date: 1.FEB.2021 23:09:12

Date: 1.FEB.2021 23:09:37

Middle Channel / Full RB

Middle Channel / Full RB

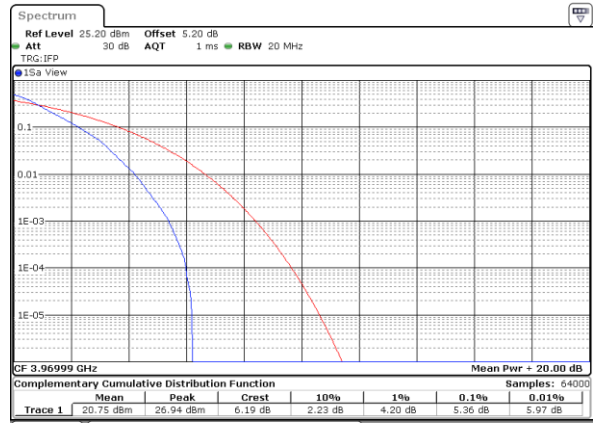
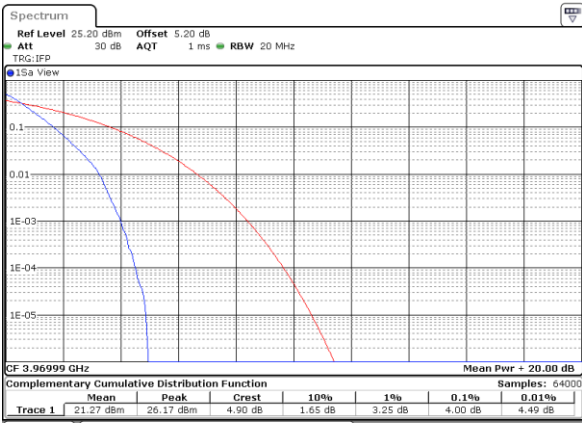


Date: 1.FEB.2021 22:51:12

Date: 1.FEB.2021 22:49:26

Highest Channel / Full RB

Highest Channel / Full RB



Date: 1.FEB.2021 23:13:17

Date: 1.FEB.2021 23:17:19

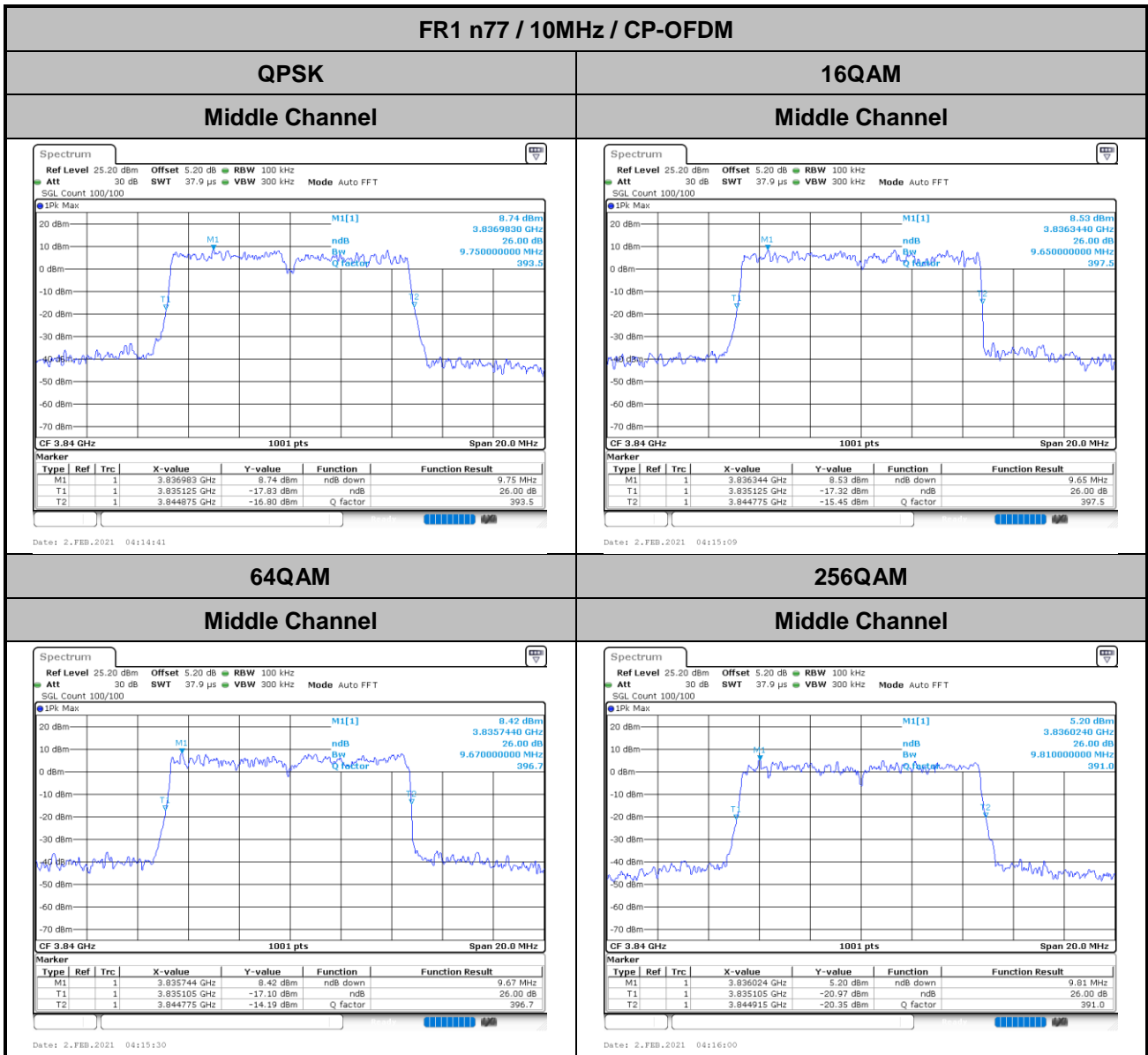


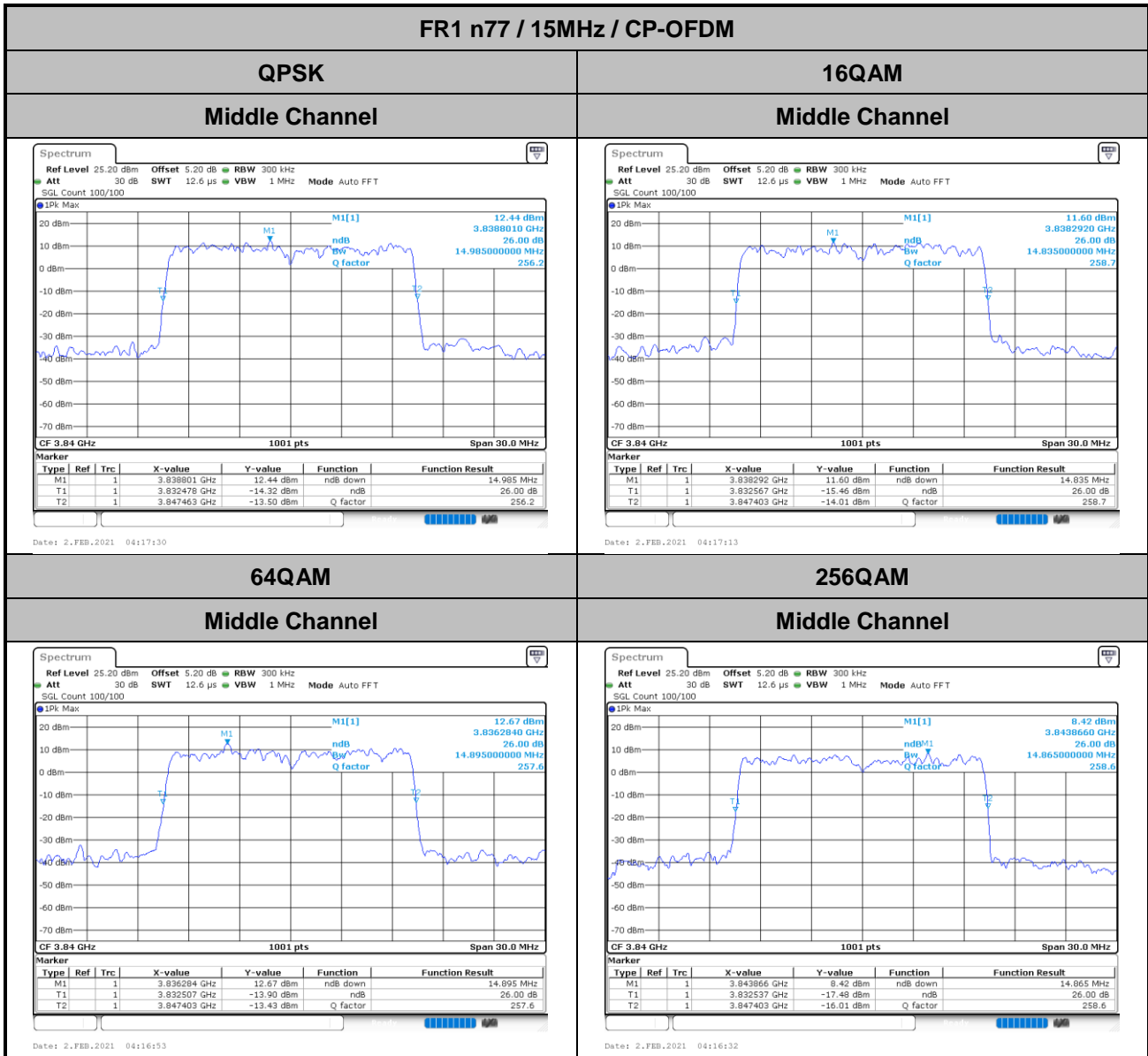
26dB Bandwidth

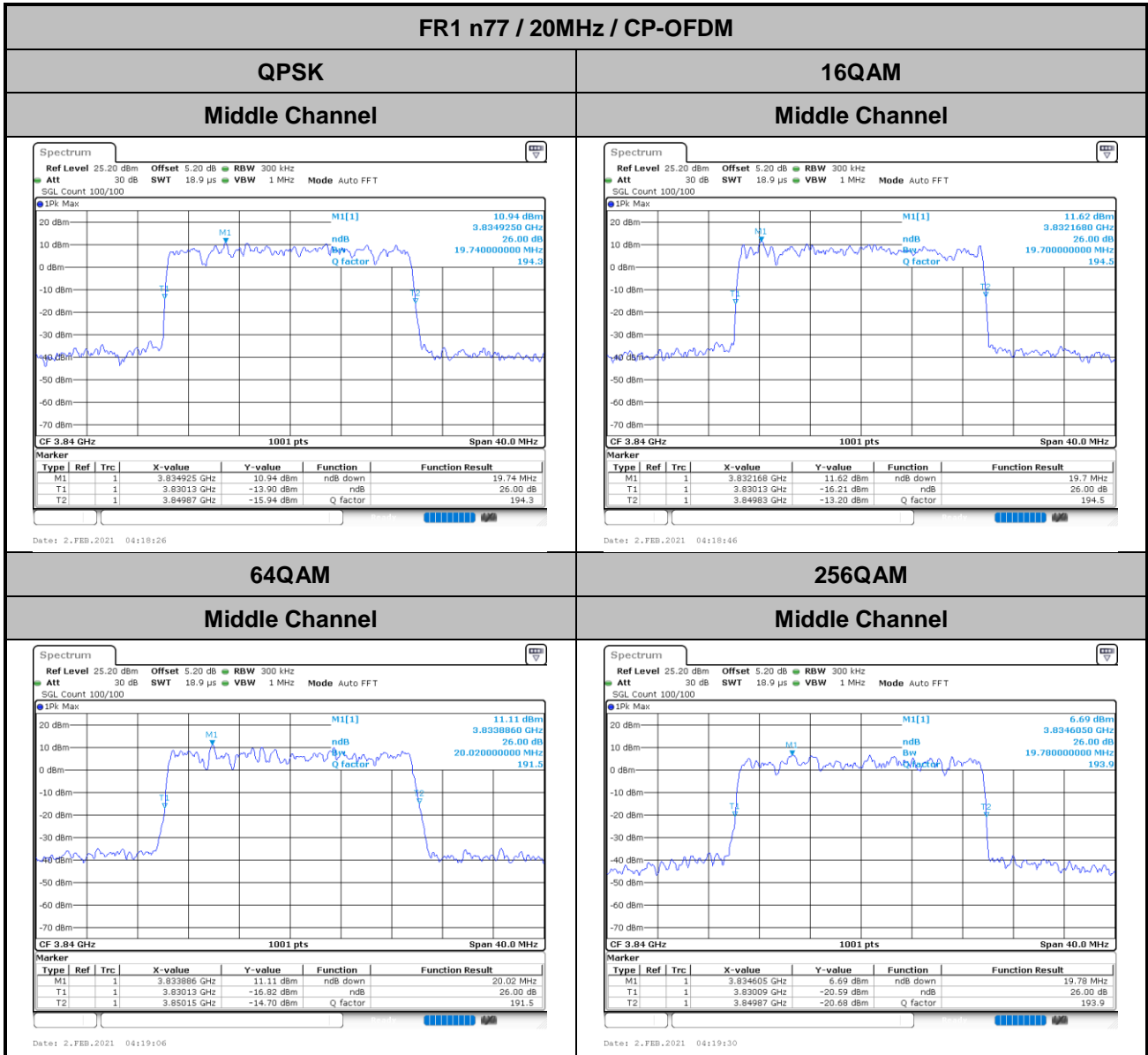
Mode	FR1 n77 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.75	9.65	9.67	9.81				

Mode	FR1 n77 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.99	14.84	14.90	14.87				

Mode	FR1 n77 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.74	19.7	20.02	19.78				







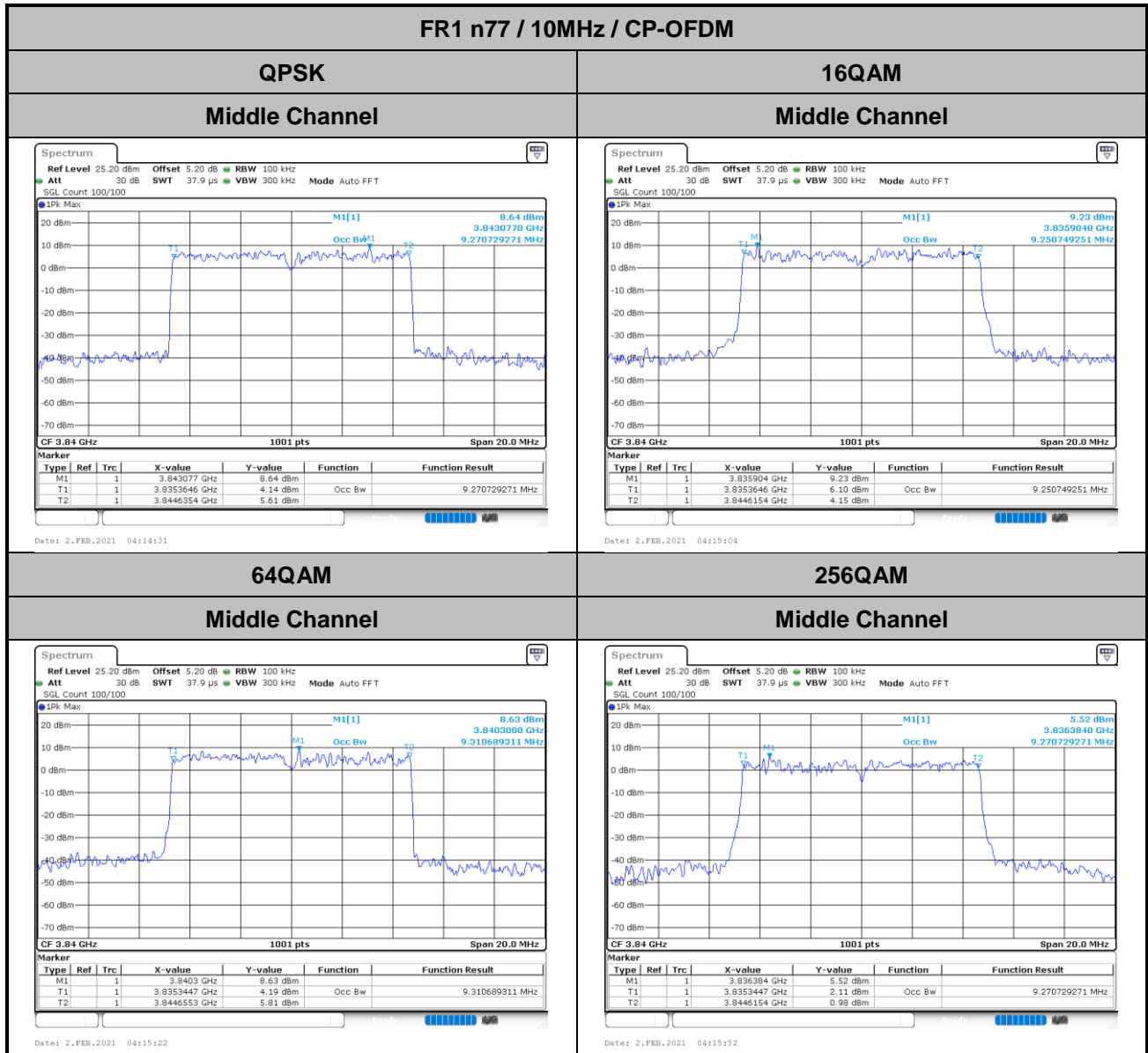


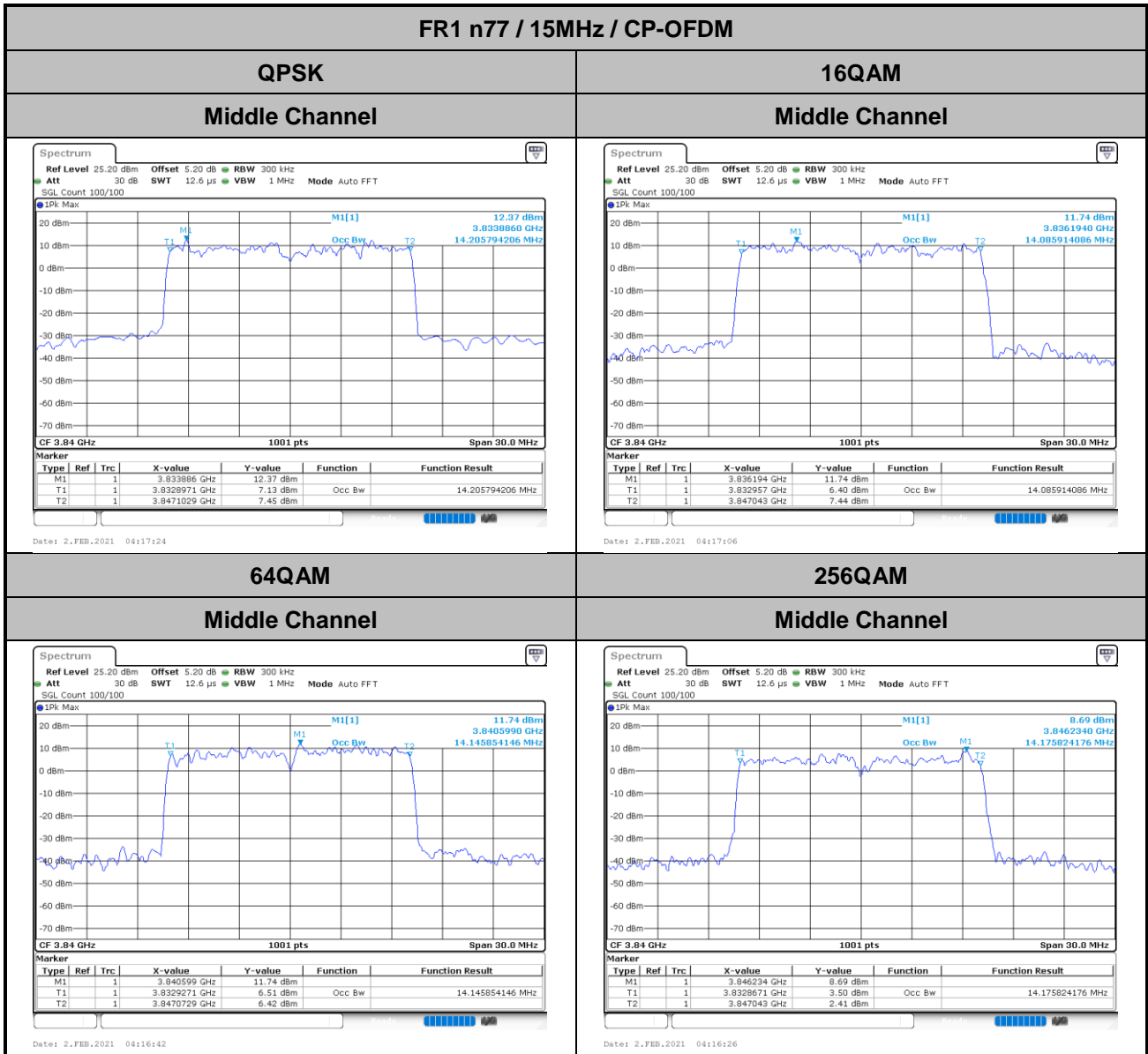
Occupied Bandwidth

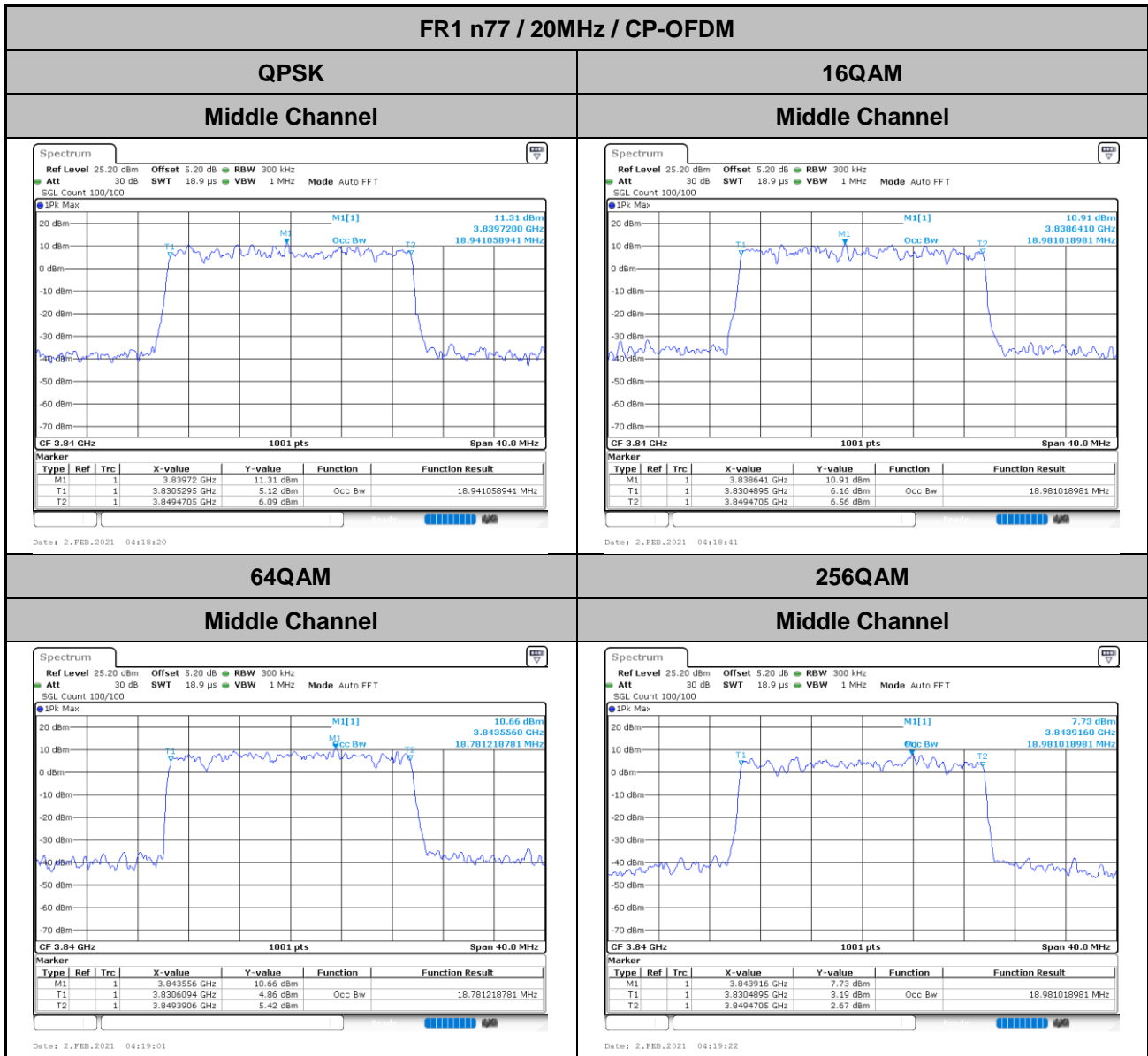
Mode	FR1 n77 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.27	9.25	9.31	9.27				

Mode	FR1 n77 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.21	14.09	14.15	14.18				

Mode	FR1 n77 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.94	18.98	18.78	18.98				

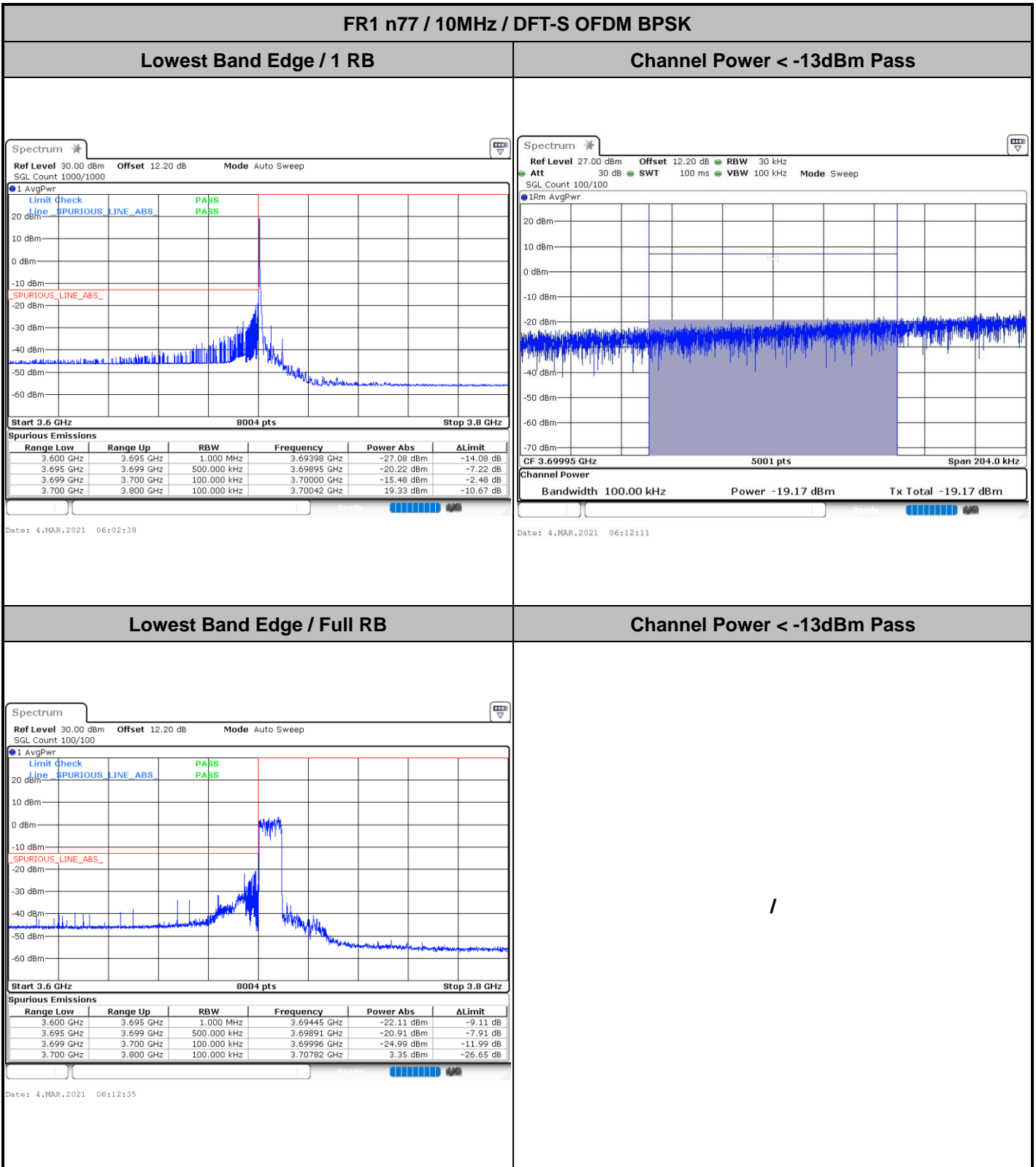








Conducted Band Edge

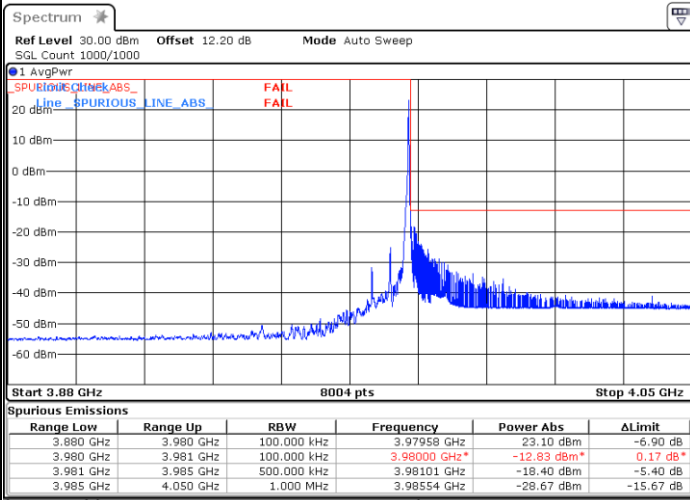




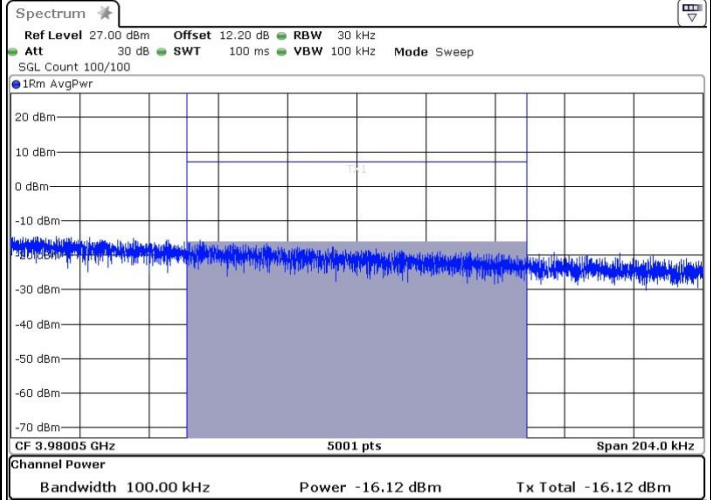
FR1 n77 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



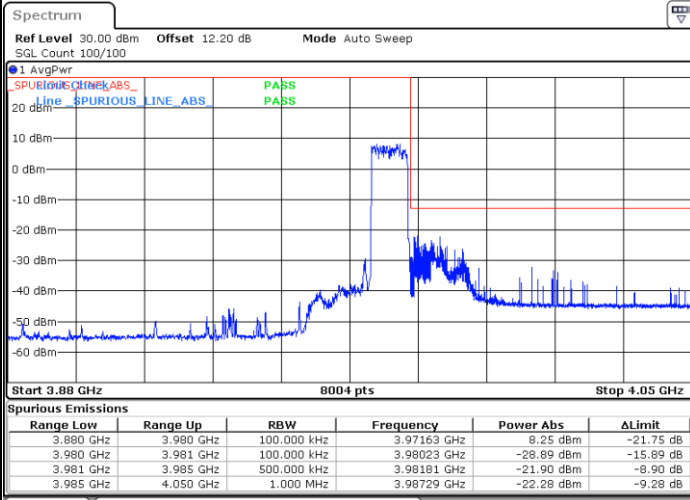
Date: 11.FEB.2021 01:08:11



Date: 11.FEB.2021 01:09:22

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 11.FEB.2021 01:11:26

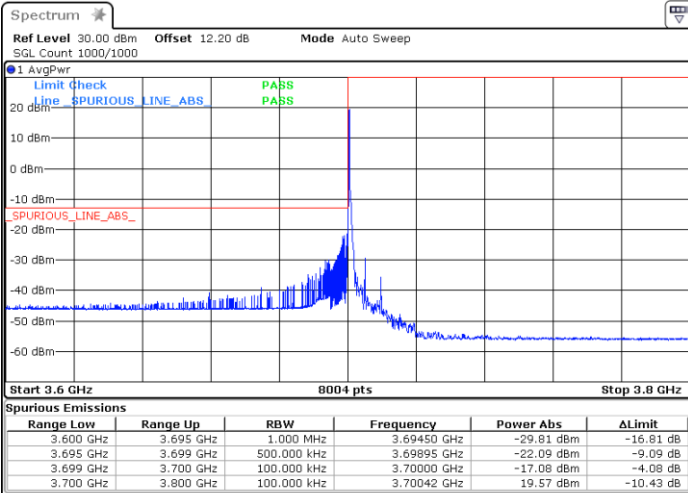
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FR1 n77 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

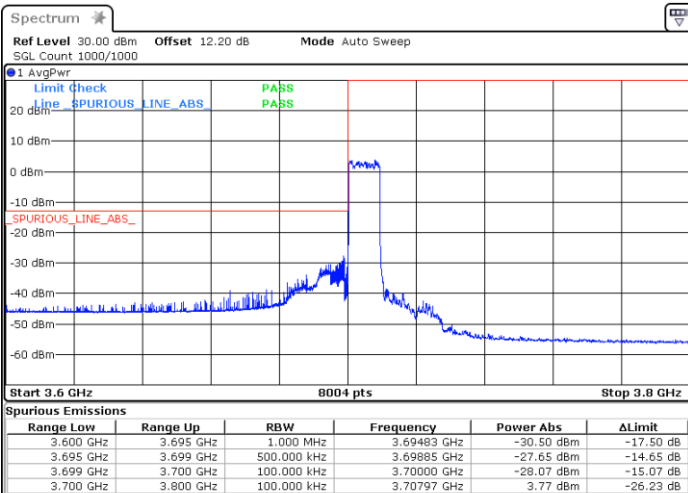
Channel Power < -13dBm Pass



Date: 4.MAR.2021 06:07:40

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



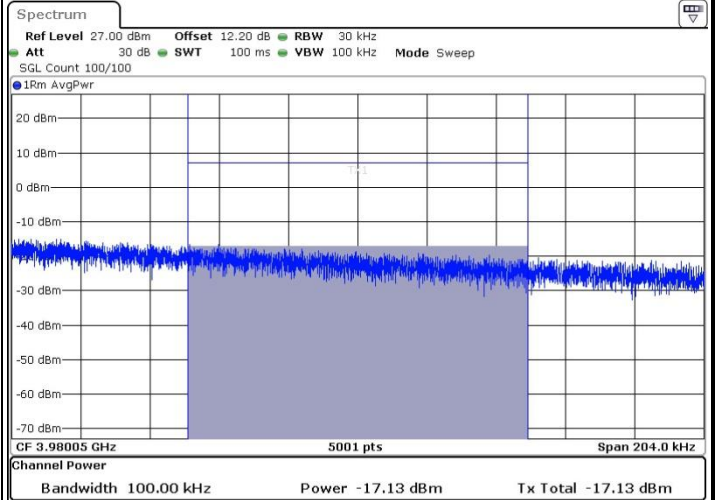
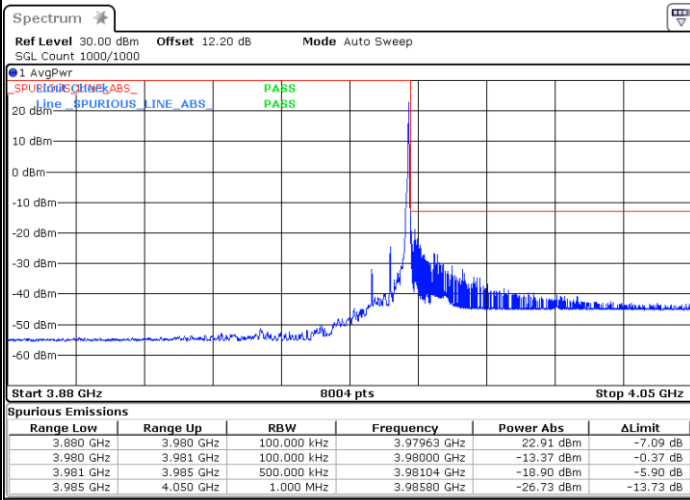
Date: 4.MAR.2021 06:13:53



FR1 n77 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass

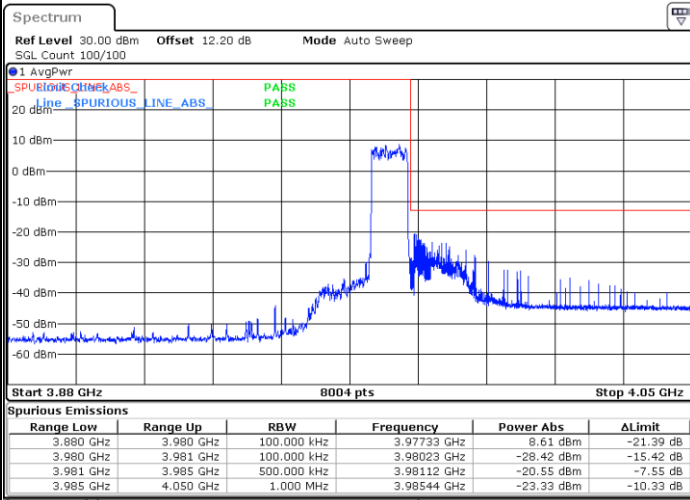


Date: 11.FEB.2021 01:06:10

Date: 11.FEB.2021 01:09:42

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



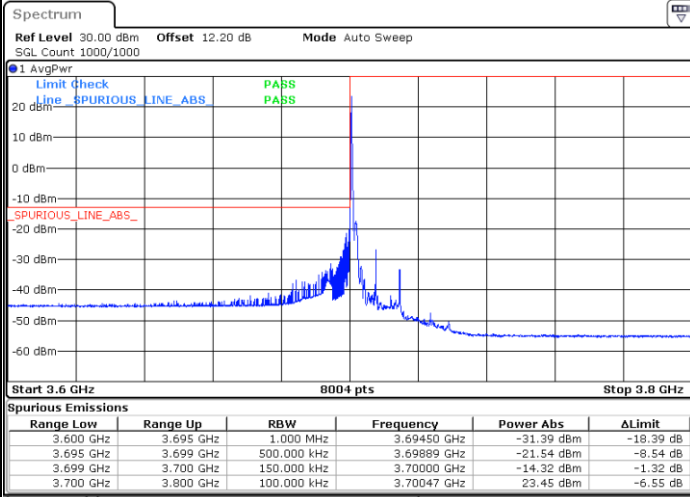
Date: 11.FEB.2021 01:10:12



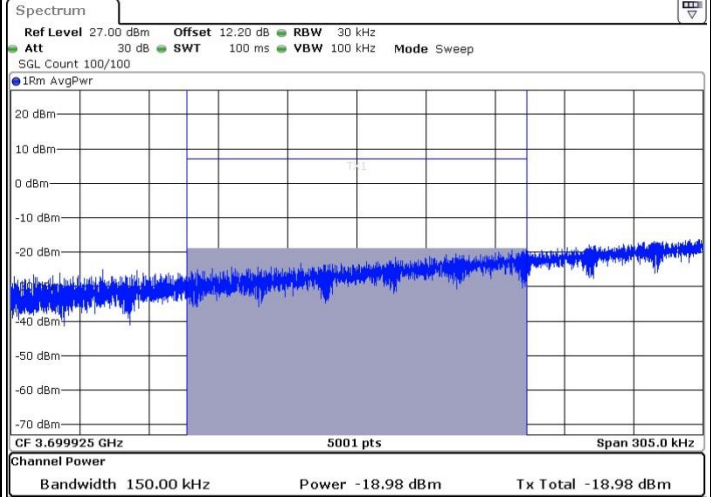
FR1 n77 / 15MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



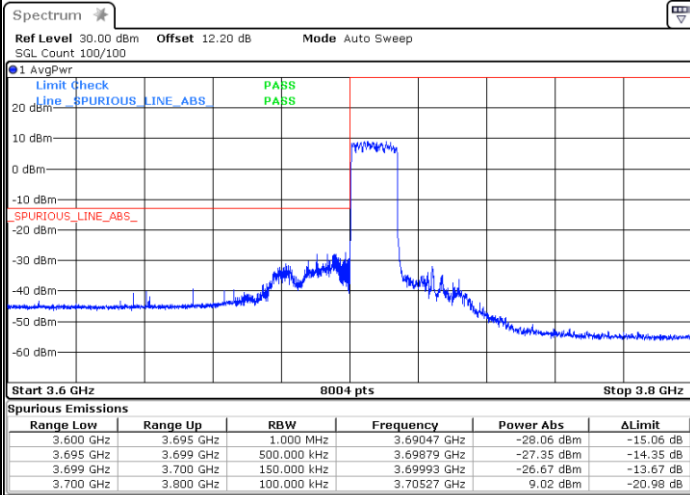
Date: 12.MAR.2021 03:37:11



Date: 12.MAR.2021 03:44:39

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 12.MAR.2021 03:38:10

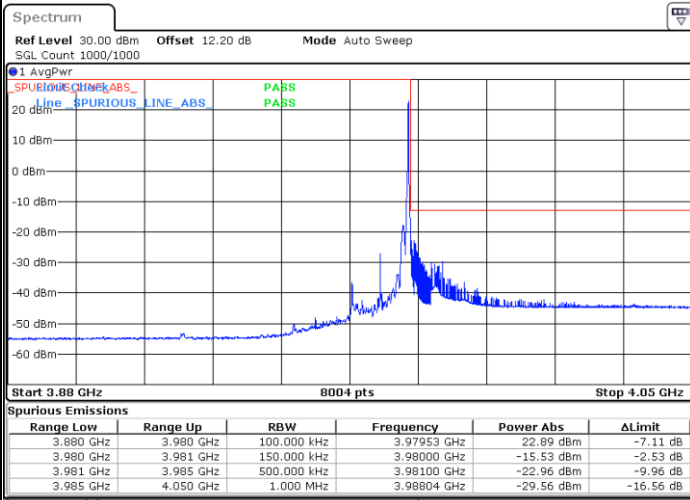
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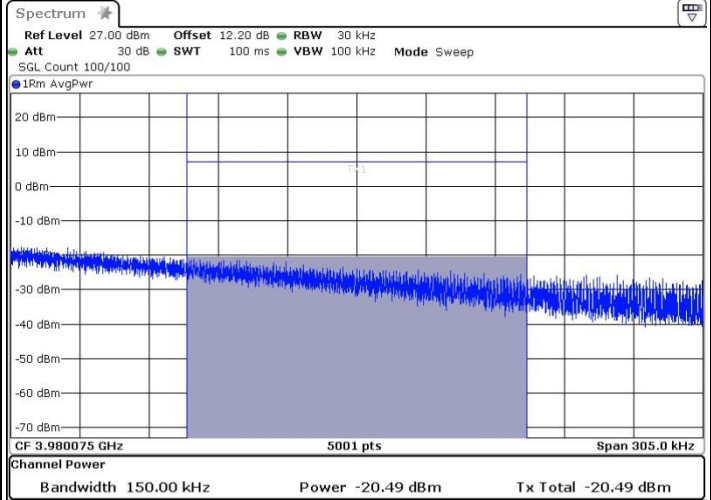
FR1 n77 / 15MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



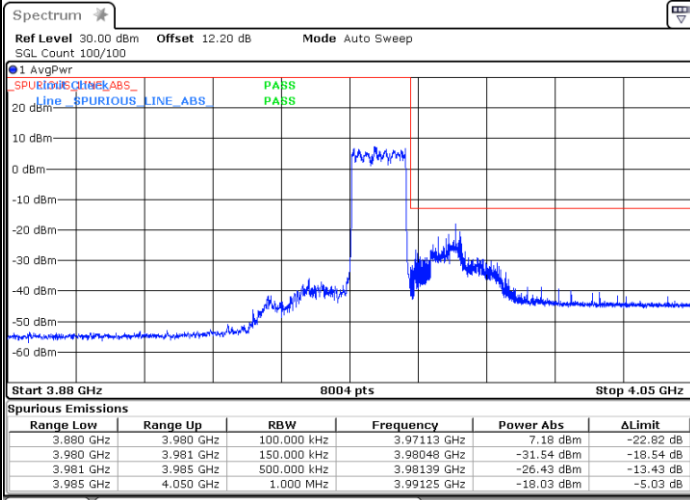
Date: 12.MAR.2021 03:46:18



Date: 12.MAR.2021 03:50:41

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



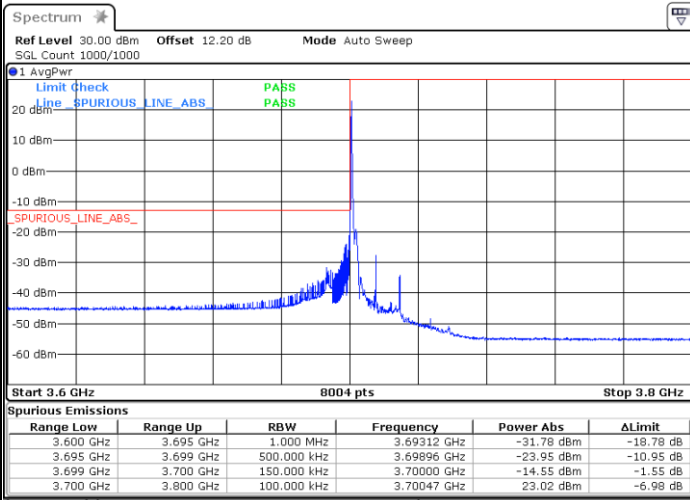
Date: 12.MAR.2021 03:49:15



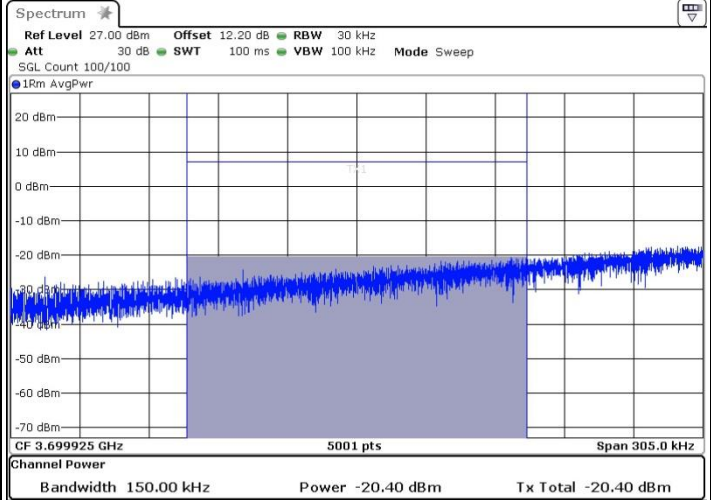
FR1 n77 / 15MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



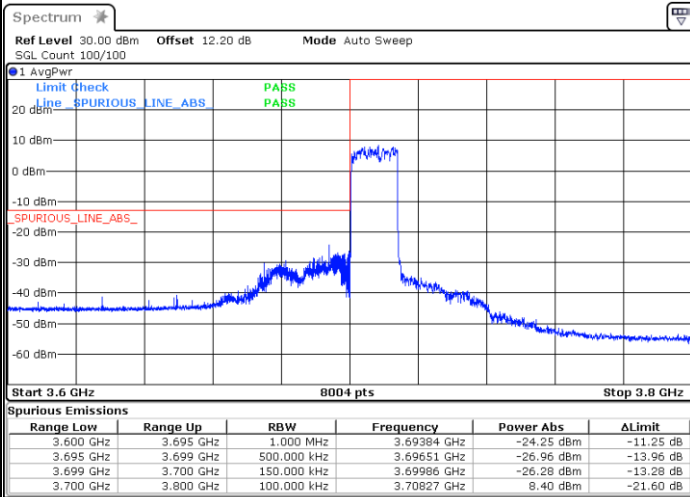
Date: 12.MAR.2021 03:05:49



Date: 12.MAR.2021 03:43:54

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



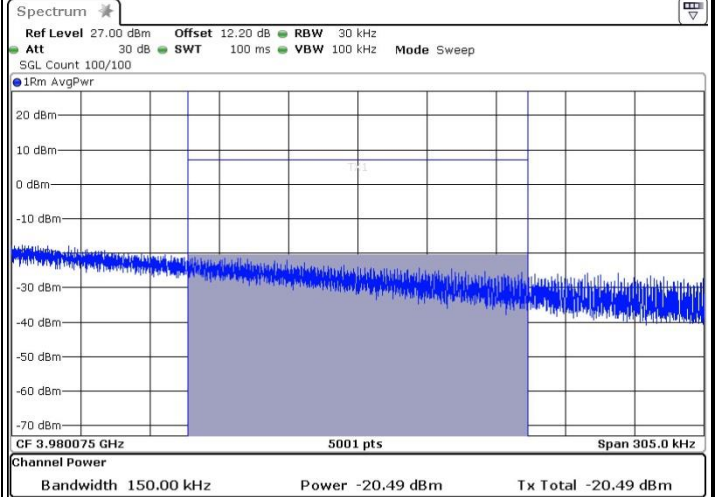
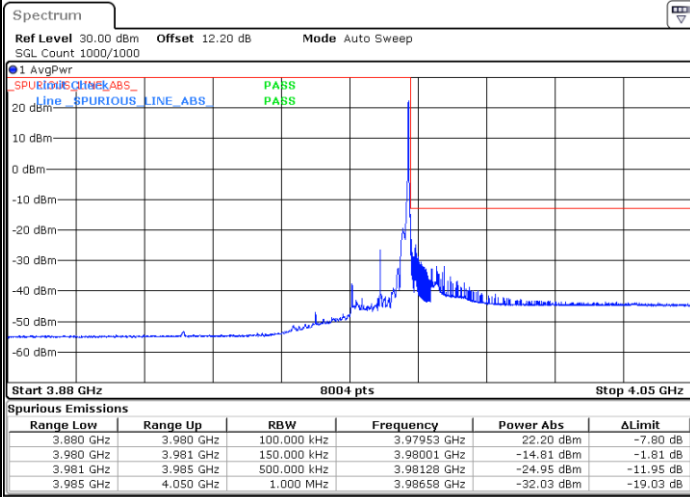
Date: 12.MAR.2021 03:38:47



FR1 n77 / 15MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass

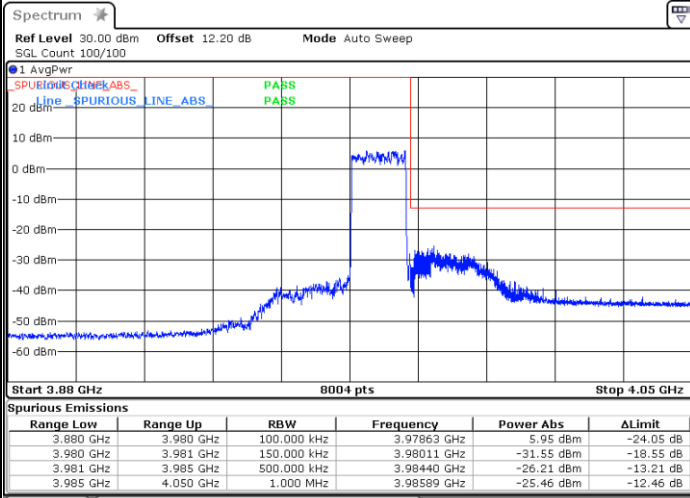


Date: 12.MAR.2021 03:47:22

Date: 12.MAR.2021 03:51:32

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



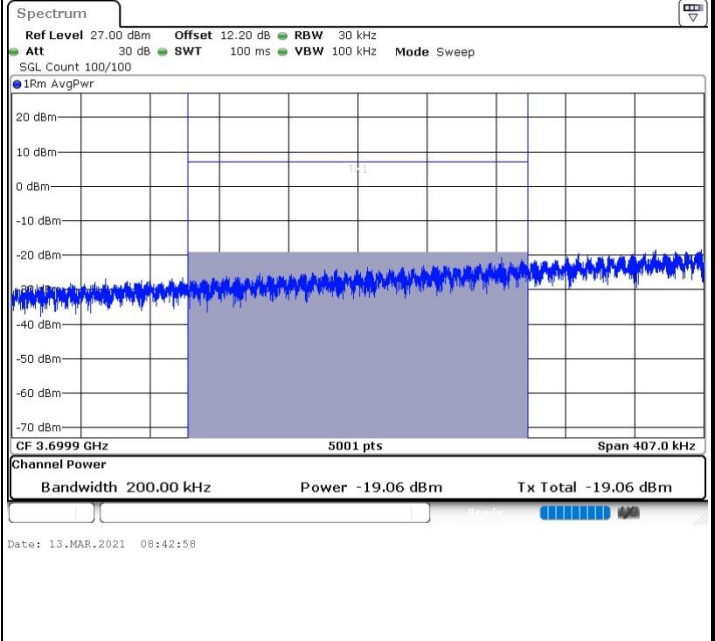
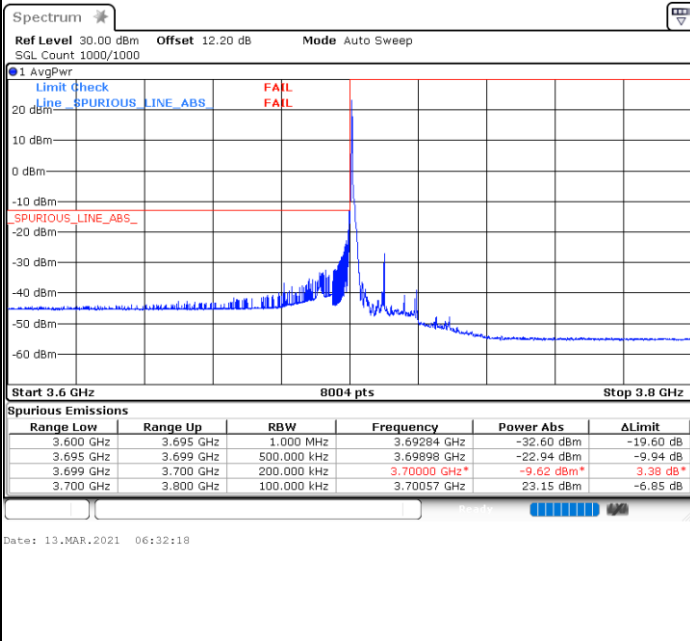
Date: 12.MAR.2021 03:48:01



FR1 n77 / 20MHz / DFT-S OFDM BPSK

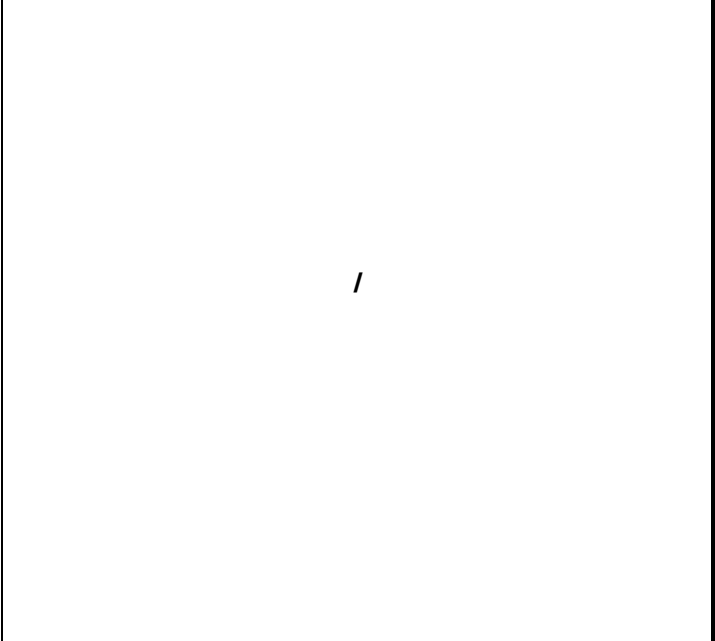
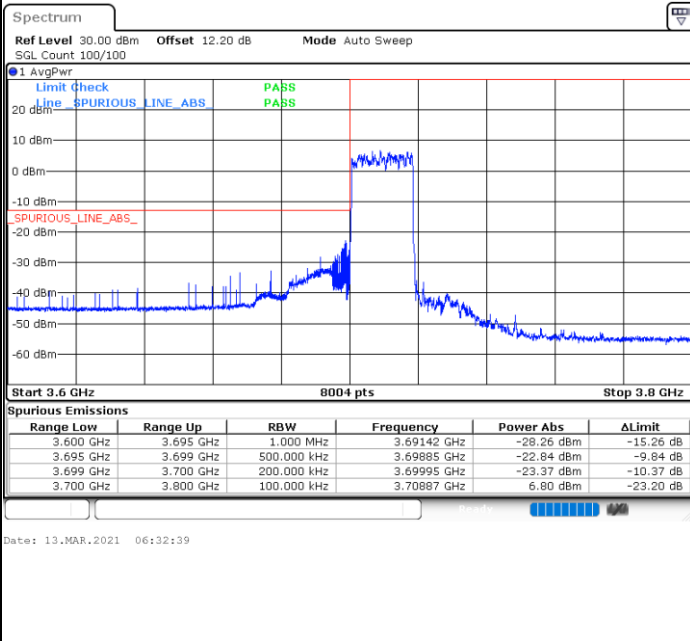
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

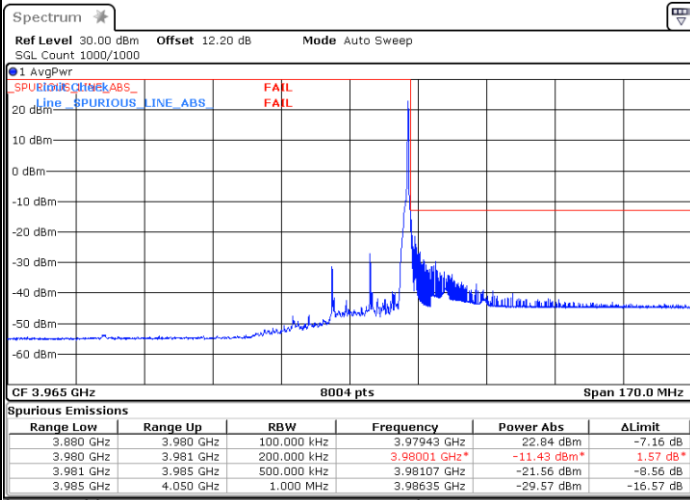




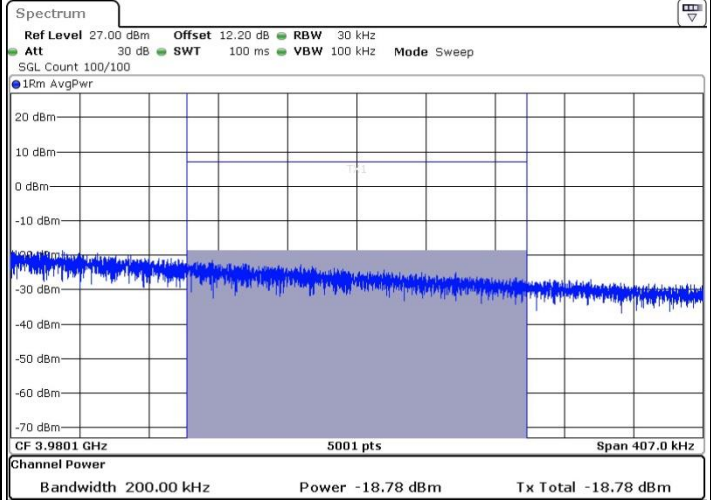
FR1 n77 / 20MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



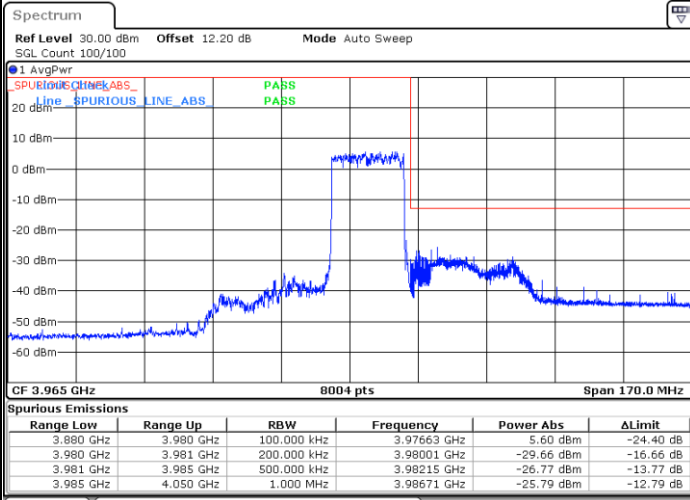
Date: 13.MAR.2021 06:47:41



Date: 13.MAR.2021 08:44:31

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



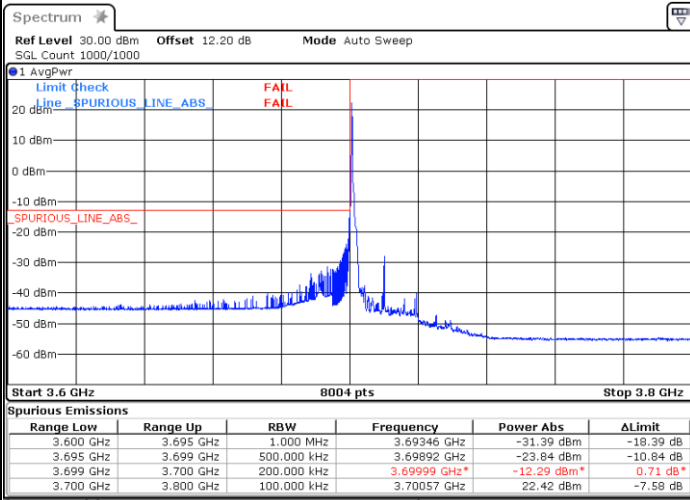
Date: 13.MAR.2021 06:33:59



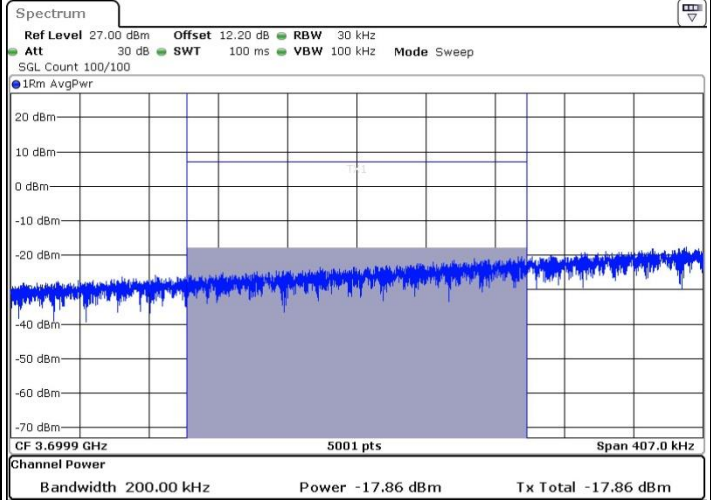
FR1 n77 / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



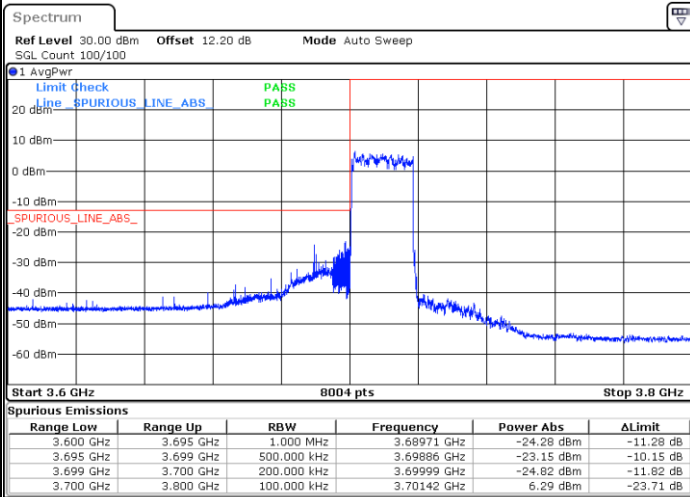
Date: 13.MAR.2021 06:28:59



Date: 13.MAR.2021 08:43:29

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 13.MAR.2021 06:32:58

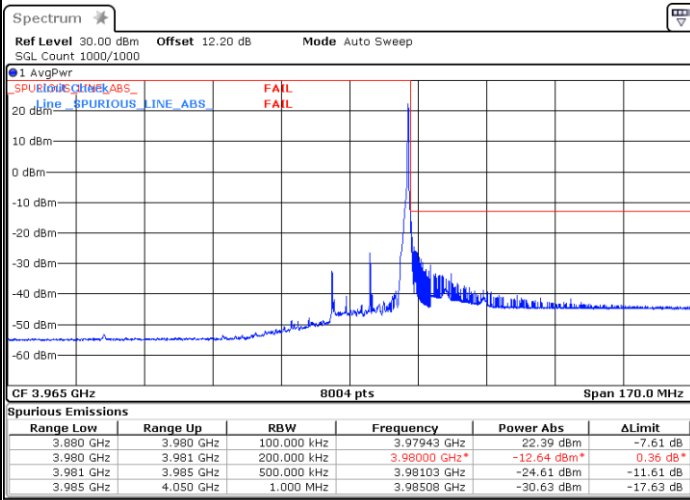
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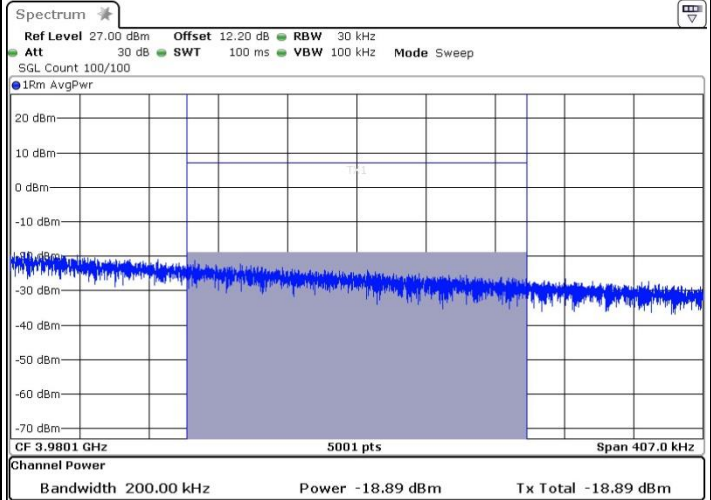
FR1 n77 / 20MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



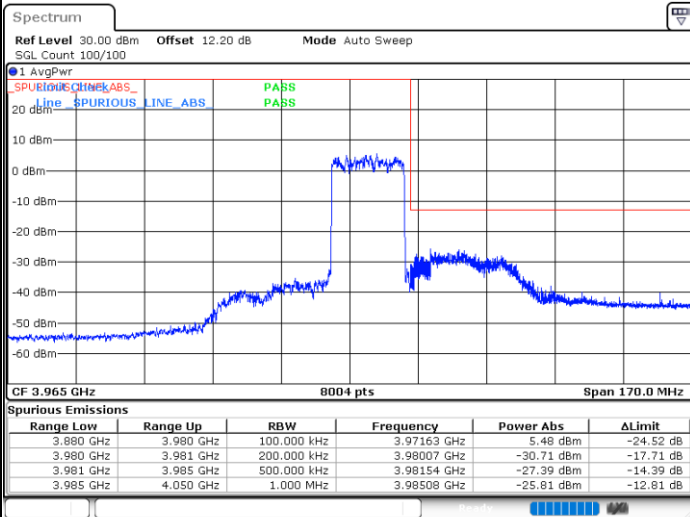
Date: 13.MAR.2021 06:53:48



Date: 13.MAR.2021 08:44:14

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 13.MAR.2021 06:33:22

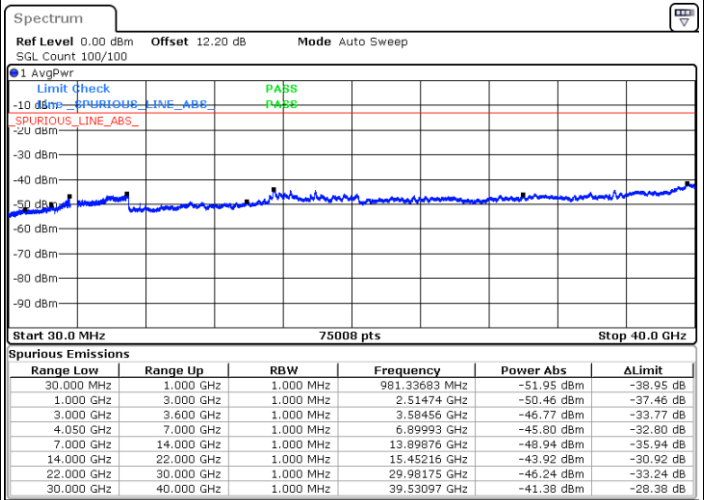
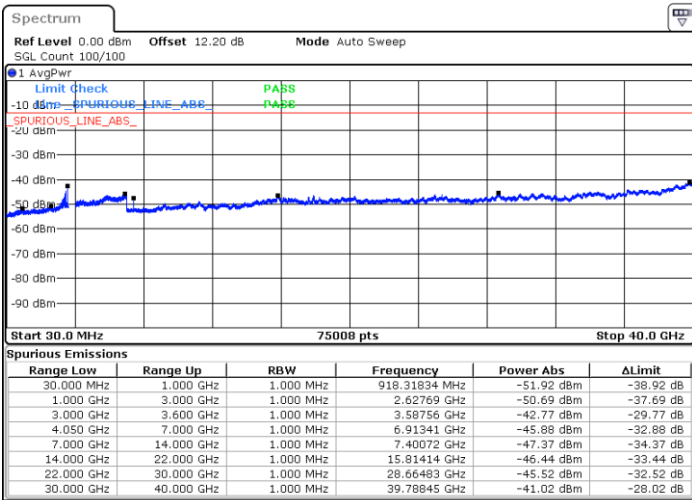


Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

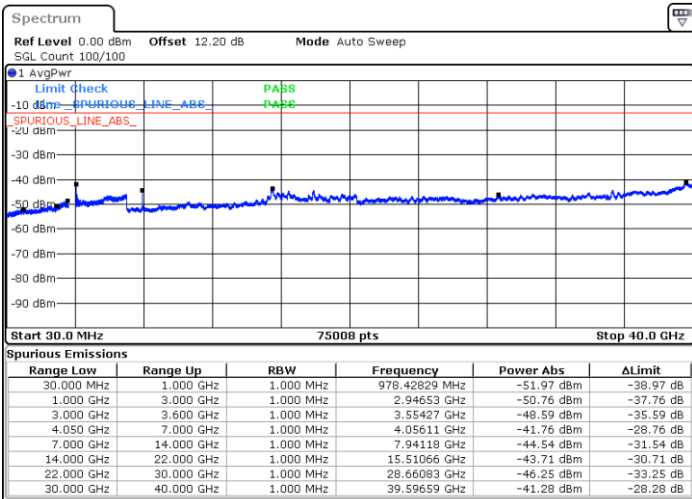
Middle Channel / 1RB



Date: 4.MAR.2021 06:01:27

Date: 9.FEB.2021 11:19:45

Highest Channel / 1RB



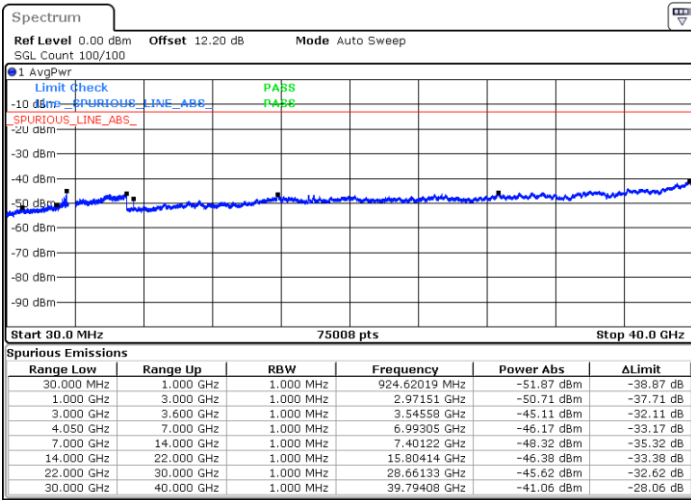
Date: 9.FEB.2021 11:26:10



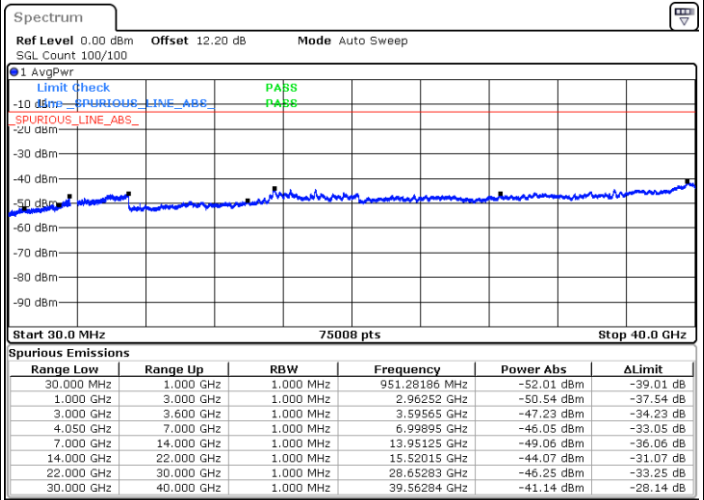
FR1 n77 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

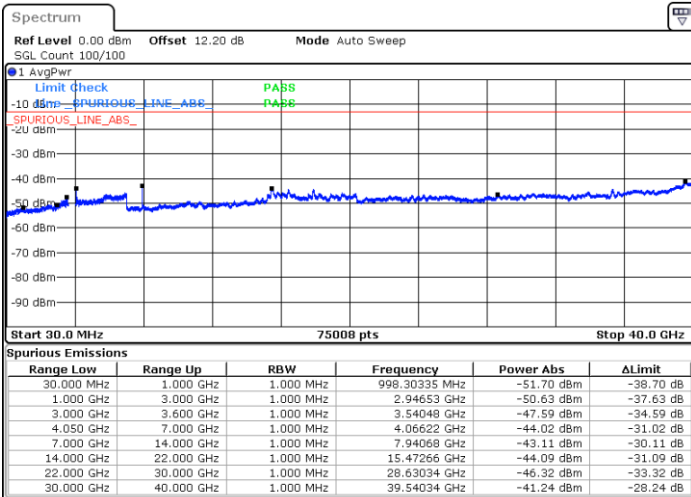


Date: 4.MAR.2021 05:59:57



Date: 9.FEB.2021 11:21:44

Highest Channel / 1RB



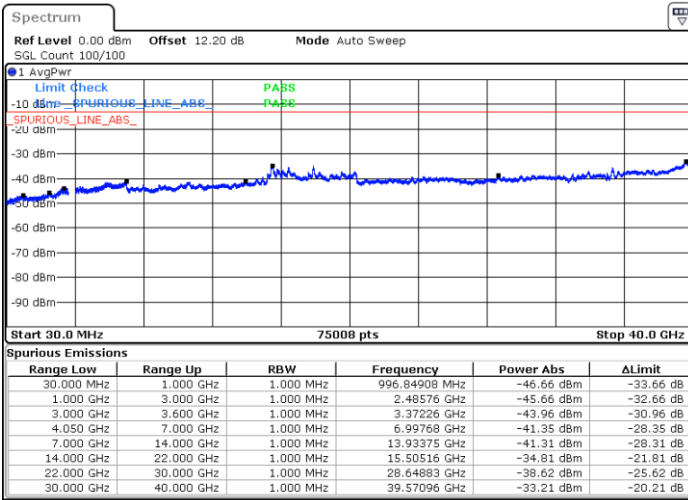
Date: 9.FEB.2021 11:24:37



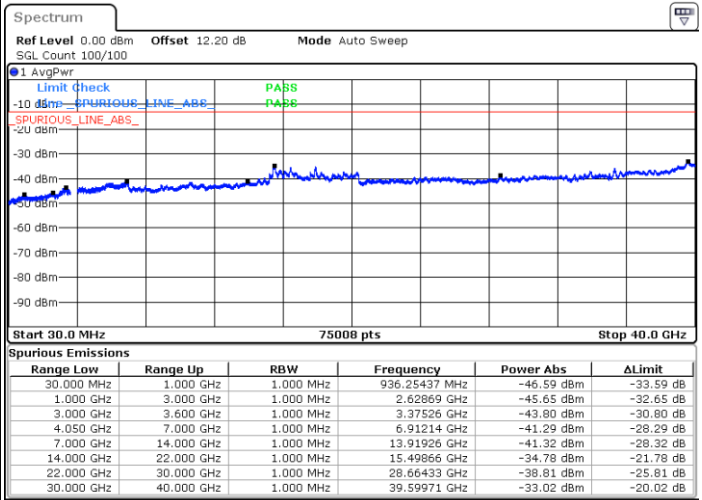
FR1 n77 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

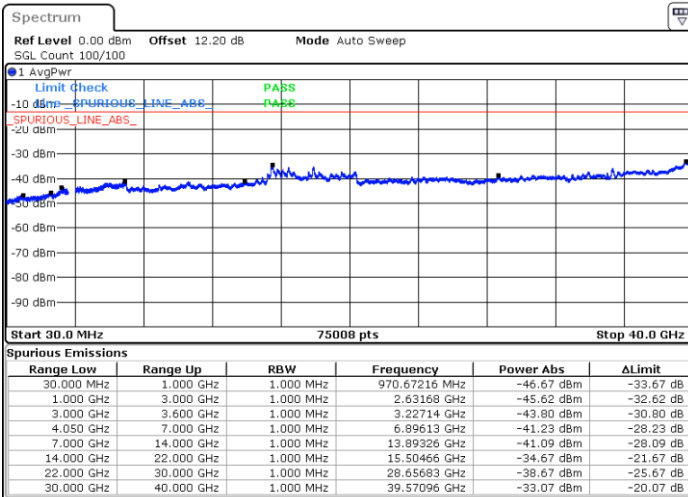


Date: 9.FEB.2021 09:56:26



Date: 9.FEB.2021 10:13:19

Highest Channel / 1RB



Date: 9.FEB.2021 10:18:34