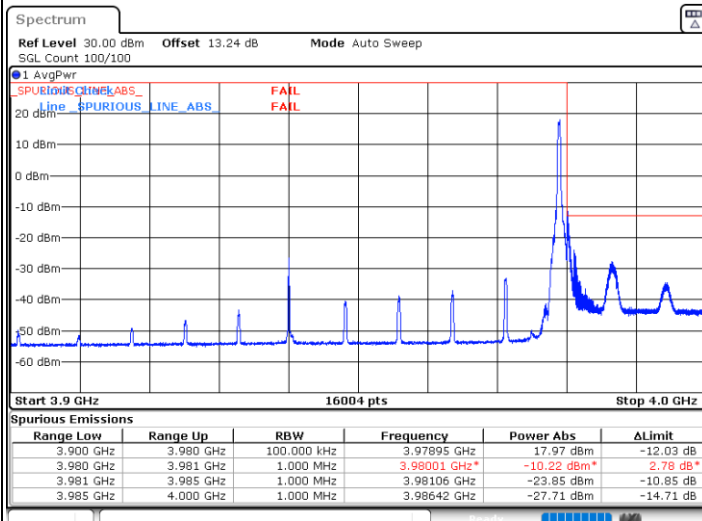
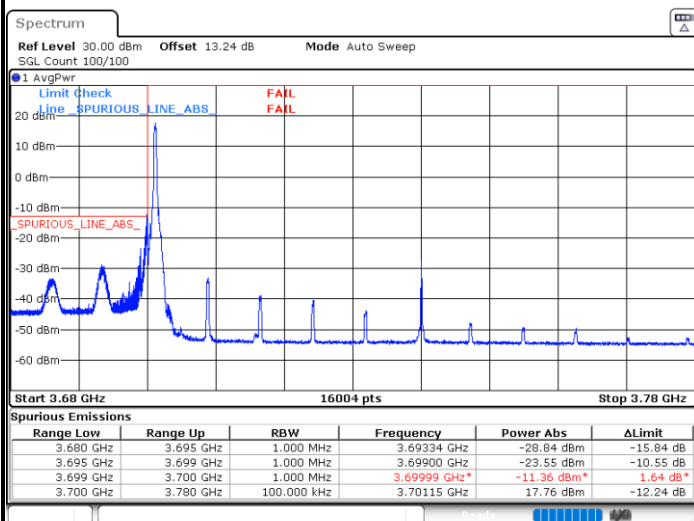




FR1 n77 / 80MHz / DFT-S OFDM / QPSK

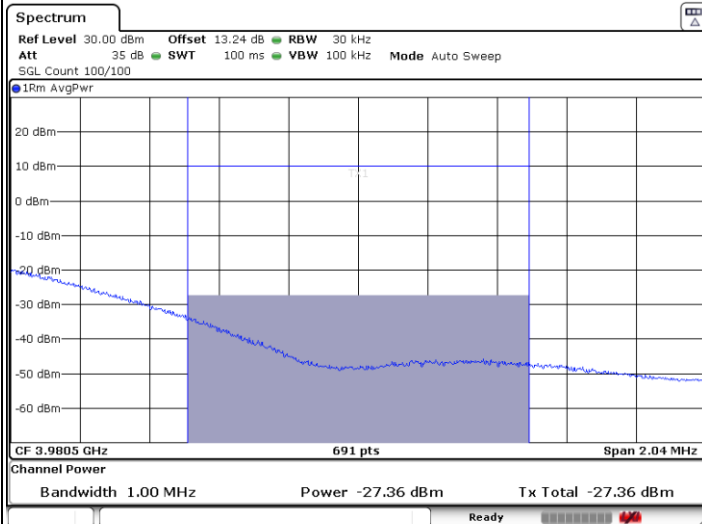
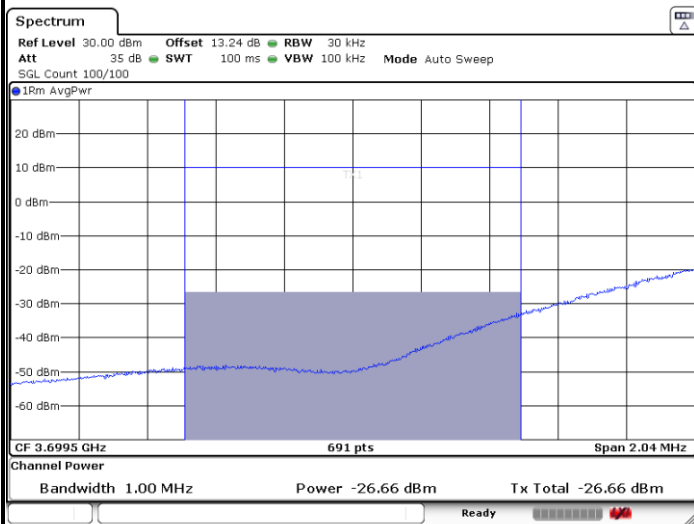
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



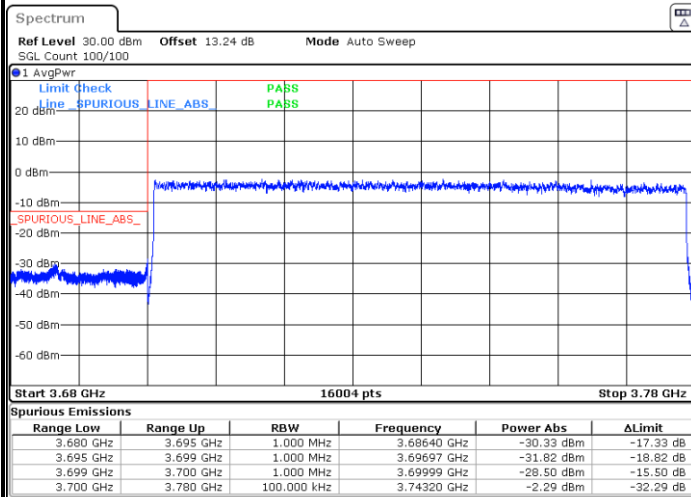
Channel Power <-13dBm Pass

Channel Power <-13dBm Pass



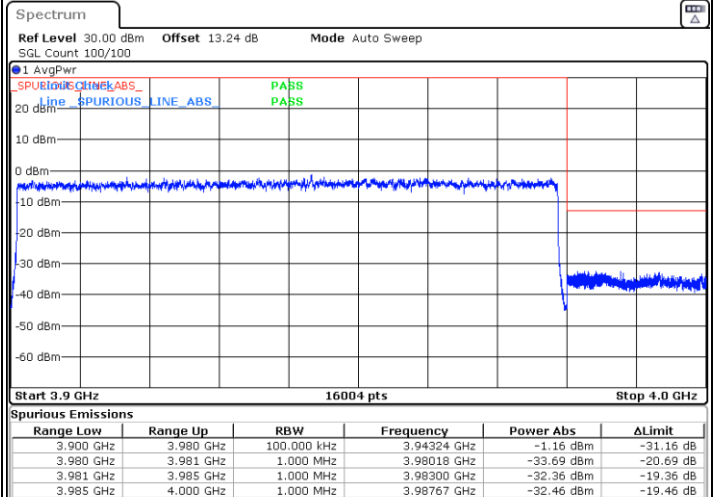


Lowest Band Edge / Full RB



Date: 27.FEB.2021 17:50:24

Highest Band Edge / Full RB



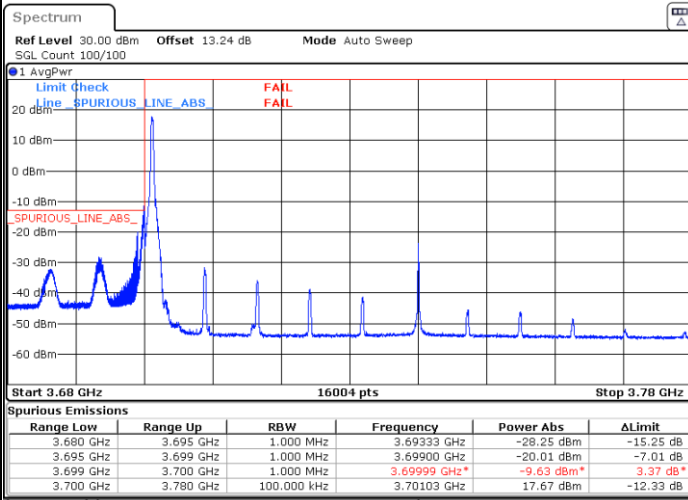
Date: 27.FEB.2021 18:02:58



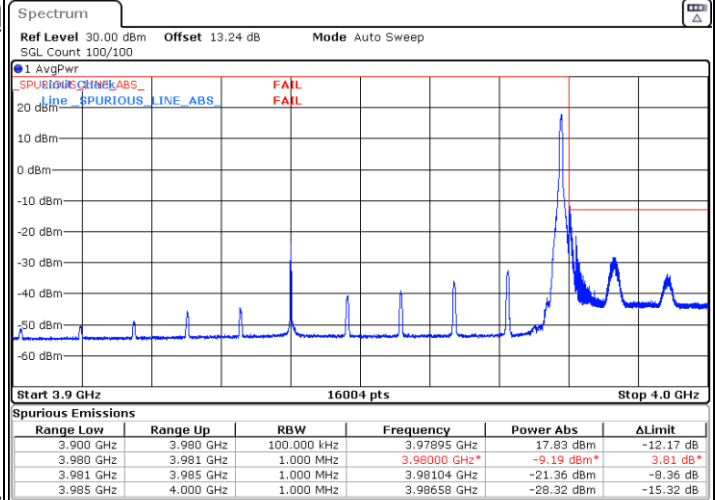
FR1 n77 / 80MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



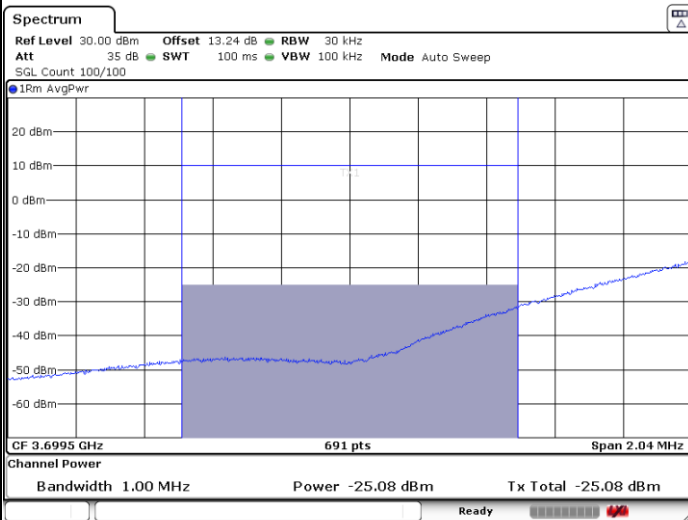
Date: 27.FEB.2021 17:54:57



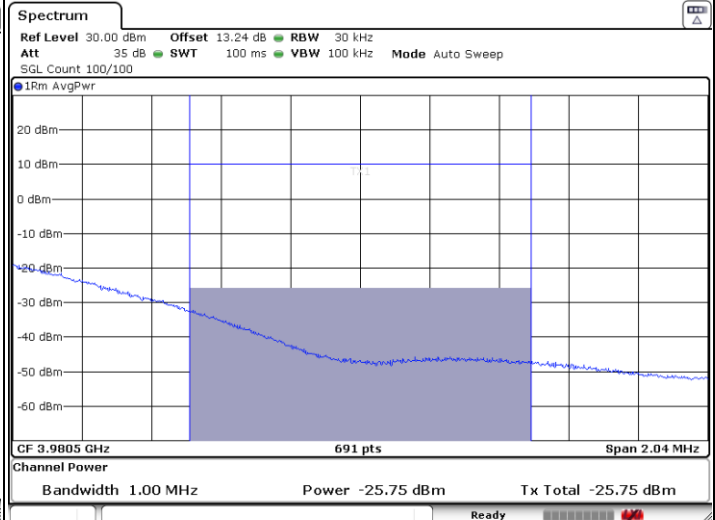
Date: 27.FEB.2021 18:07:14

Channel Power <-13dBm Pass

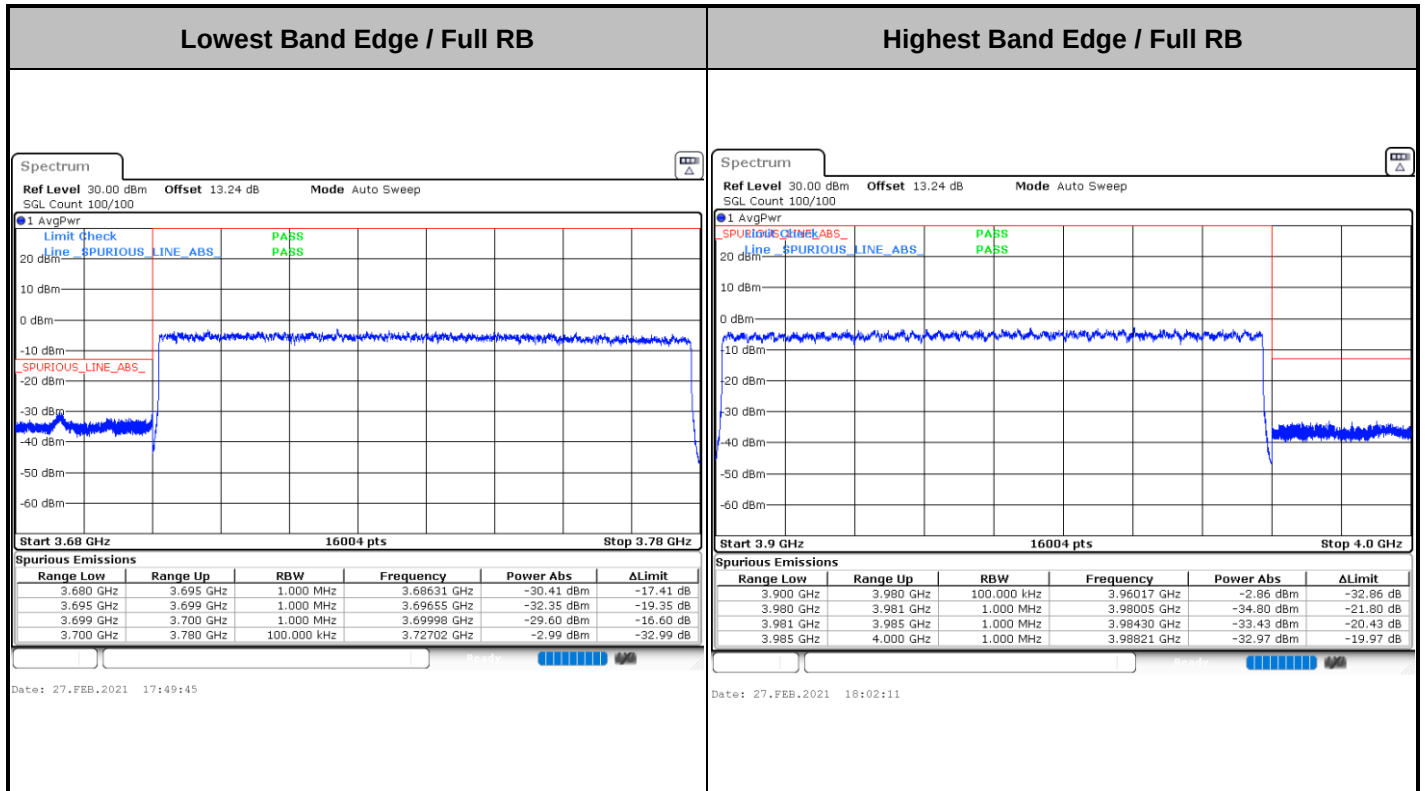
Channel Power <-13dBm Pass



Date: 27.FEB.2021 20:05:36



Date: 27.FEB.2021 20:09:15

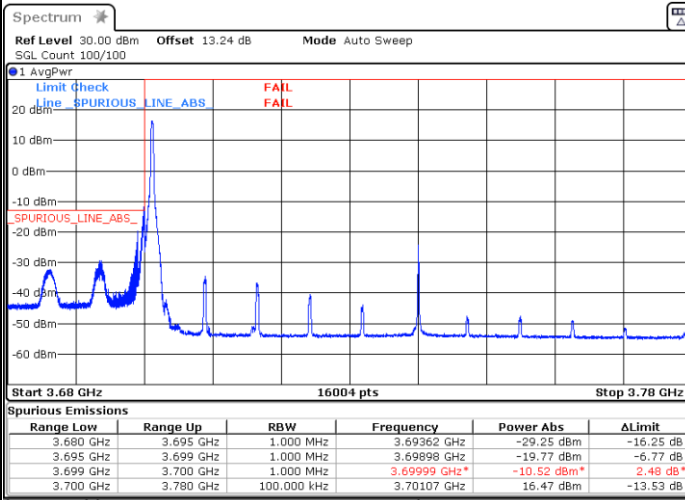




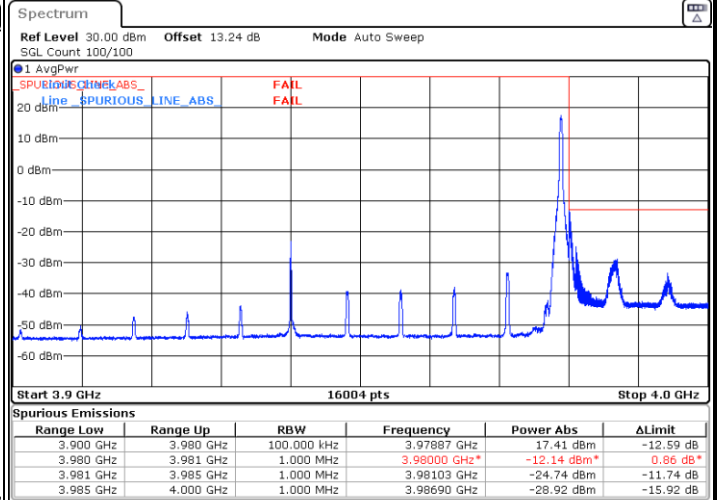
FR1 n77 / 80MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



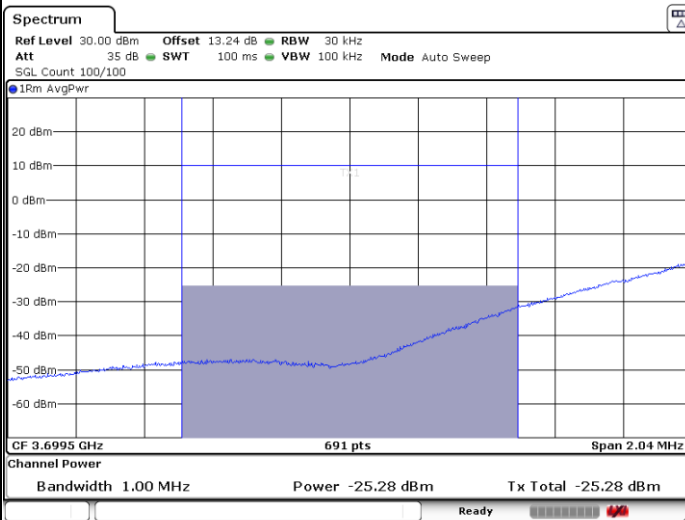
Date: 27.FEB.2021 17:56:28



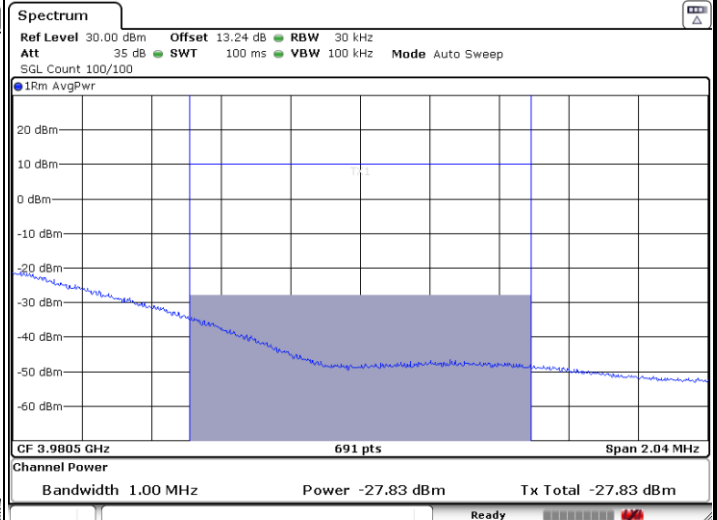
Date: 27.FEB.2021 18:09:32

Channel Power <-13dBm Pass

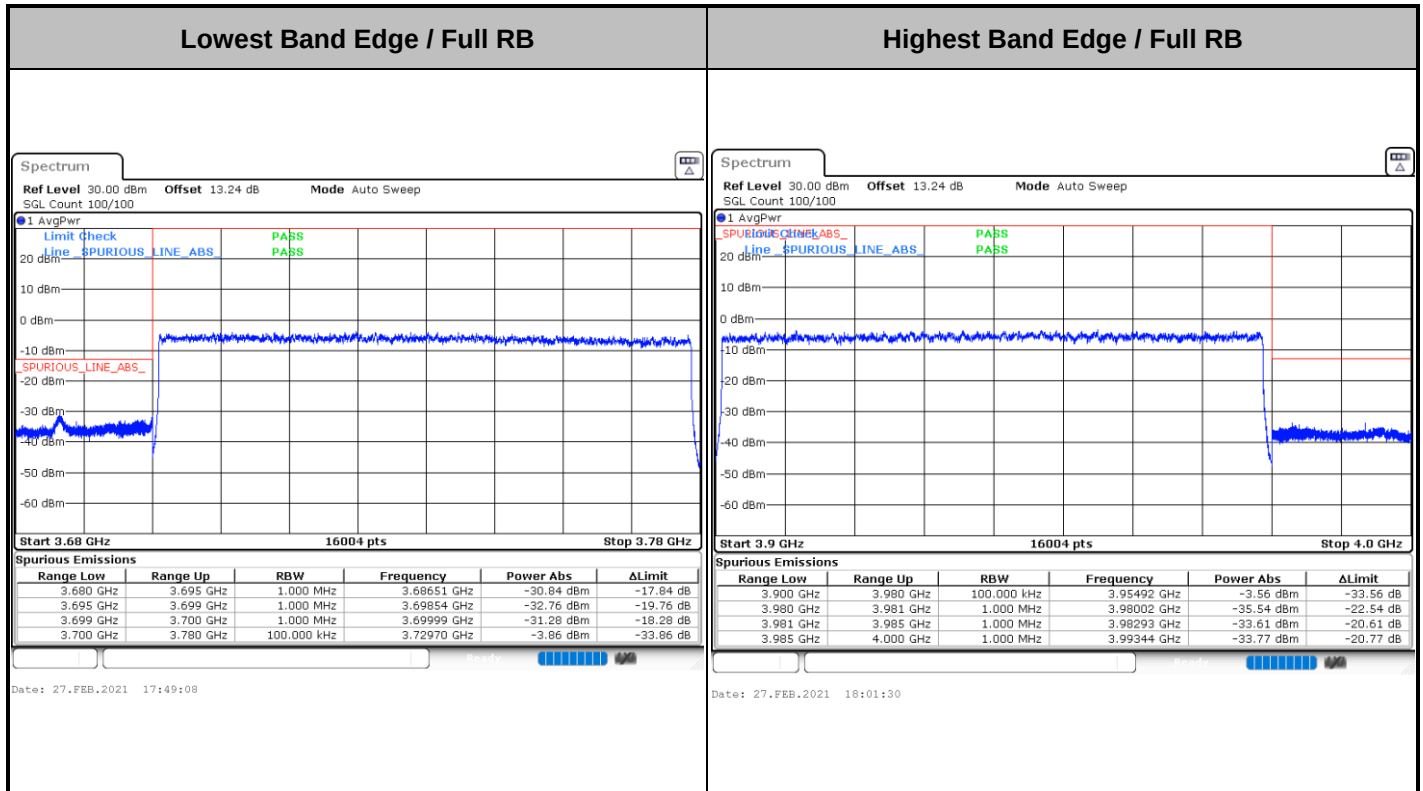
Channel Power <-13dBm Pass



Date: 27.FEB.2021 20:05:05



Date: 27.FEB.2021 20:09:47

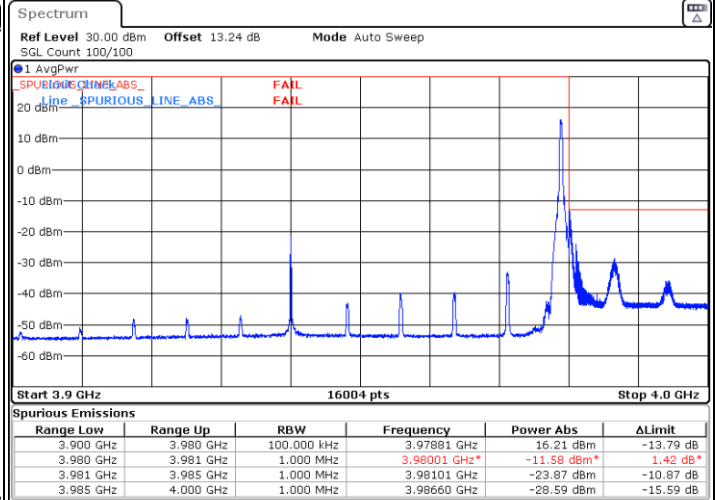
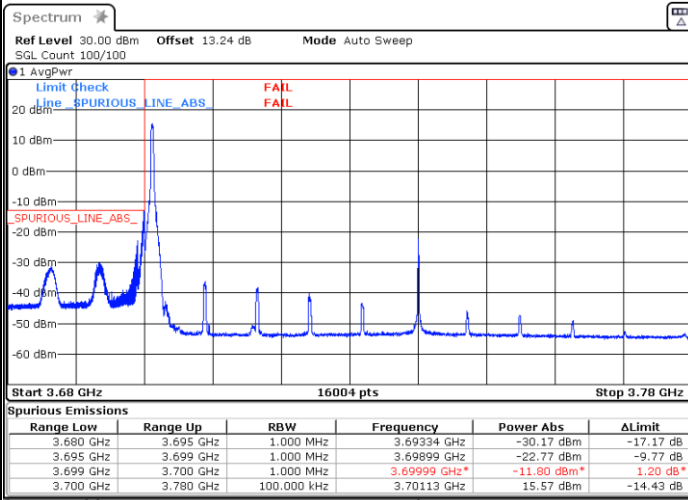




FR1 n77 / 80MHz / DFT-S OFDM / 256QAM

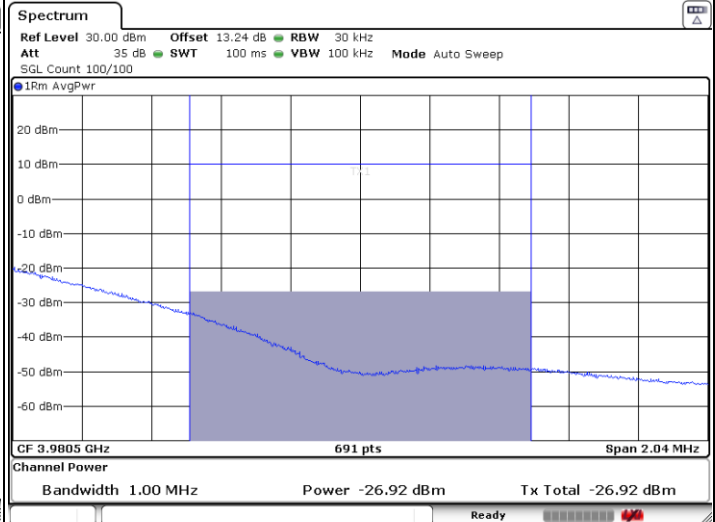
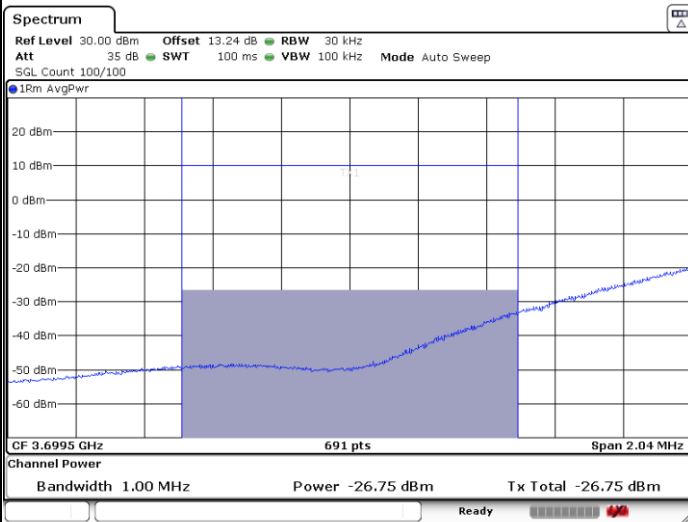
Lowest Band Edge / 1RB0

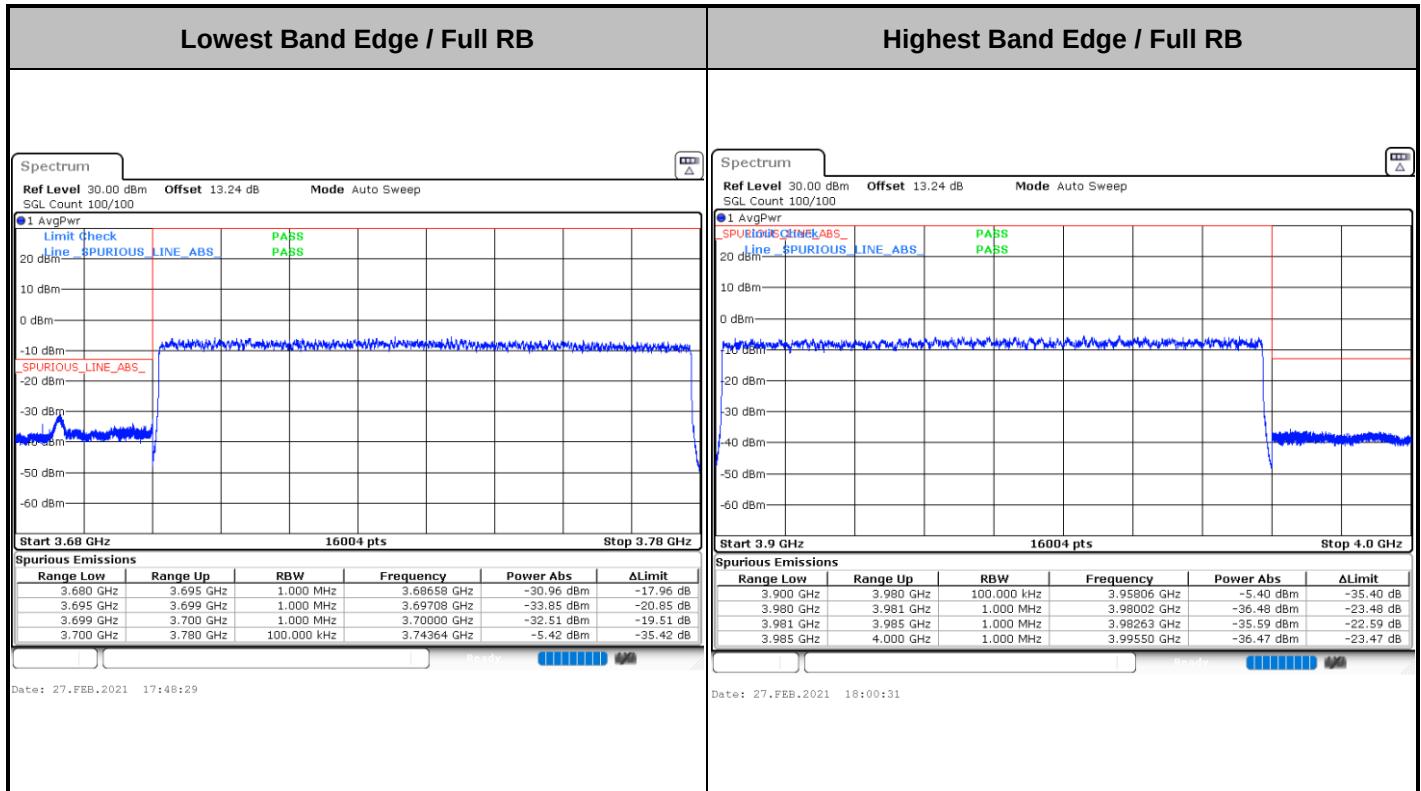
Highest Band Edge / 1RBmax



Channel Power <-13dBm Pass

Channel Power <-13dBm Pass



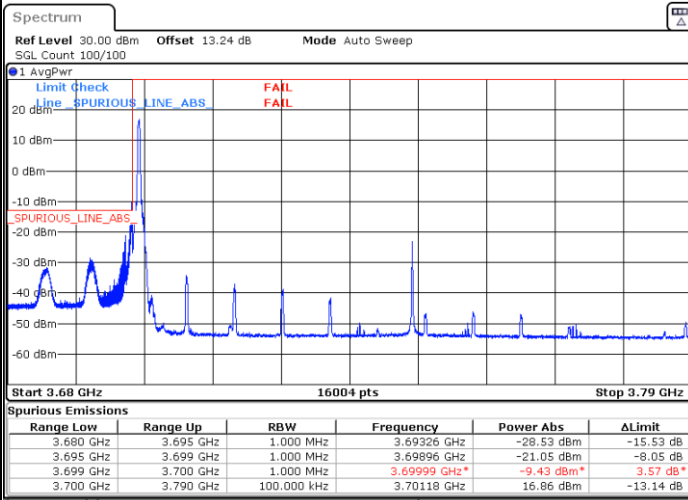




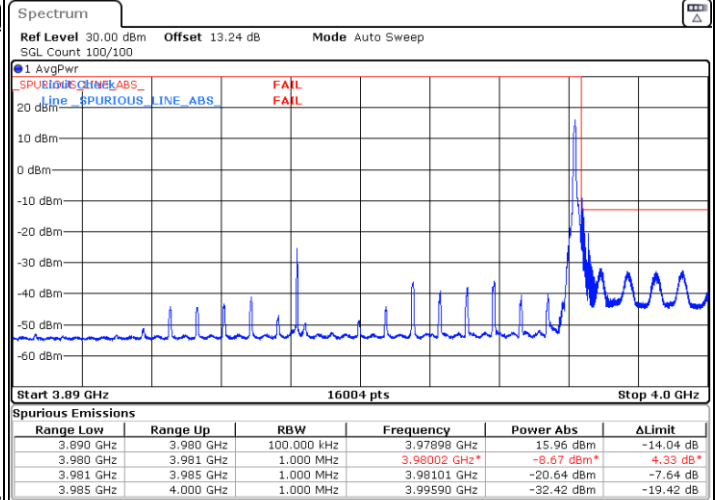
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



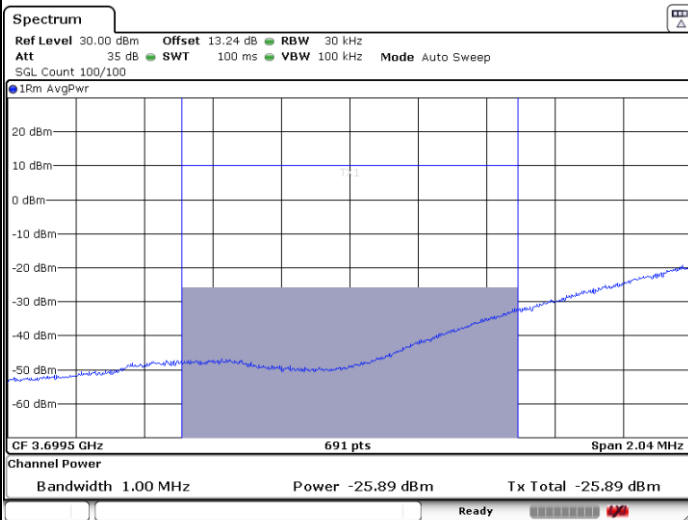
Date: 27.FEB.2021 18:16:19



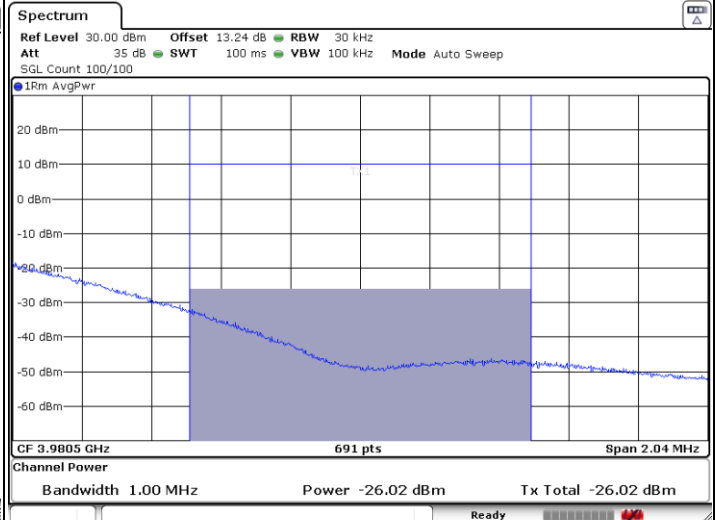
Date: 27.FEB.2021 18:25:45

Channel Power <-13dBm Pass

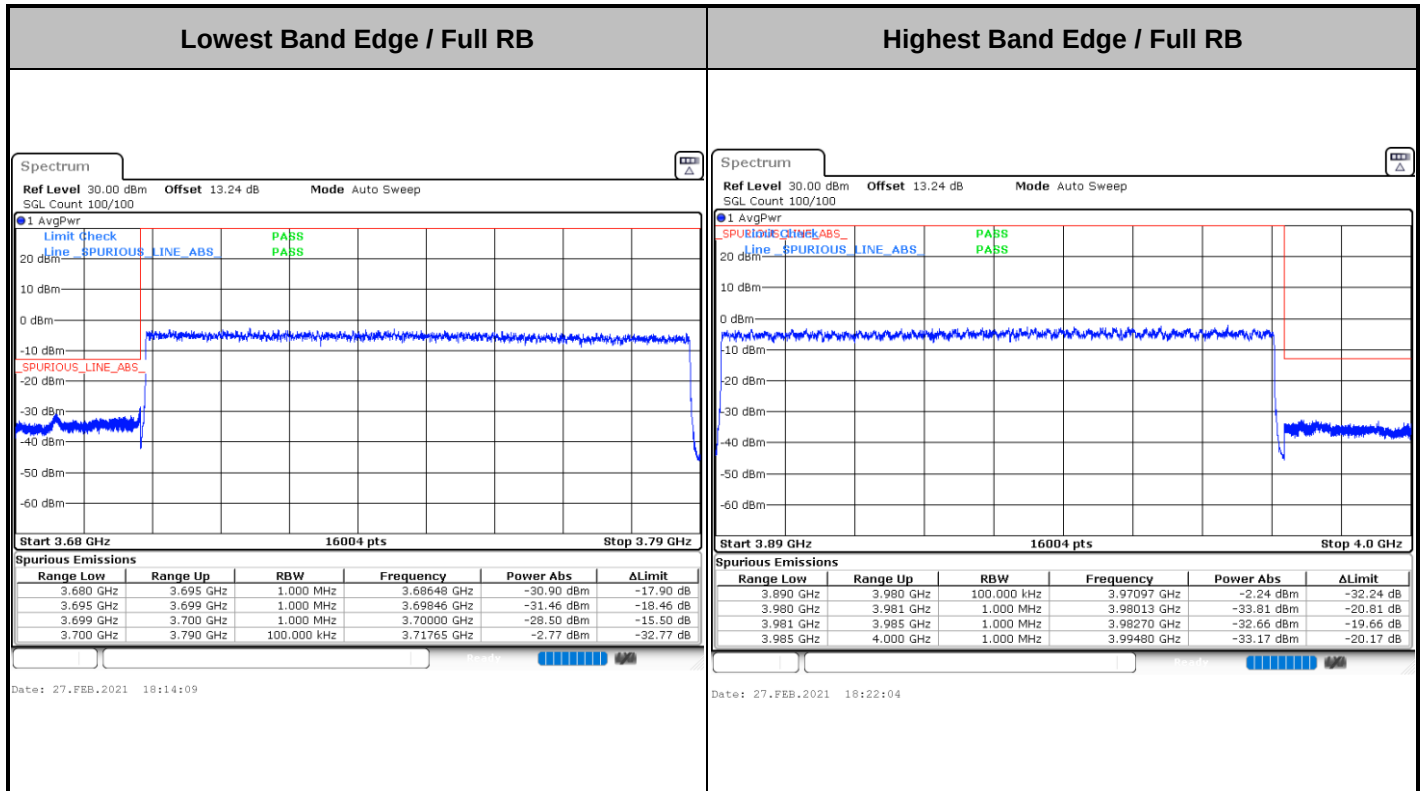
Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:58:12



Date: 27.FEB.2021 20:01:23

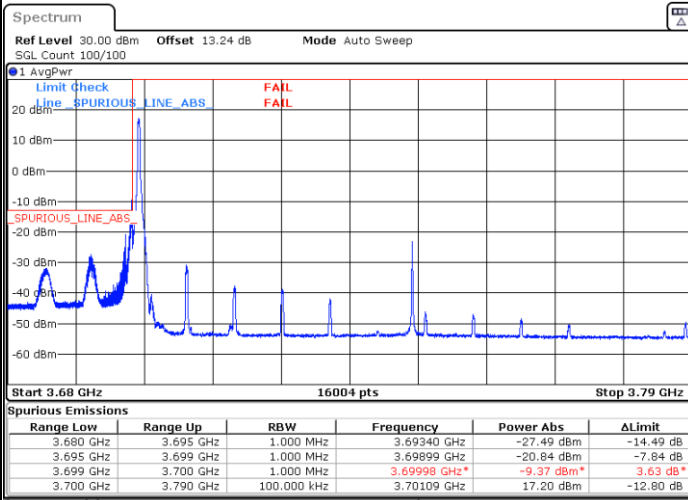




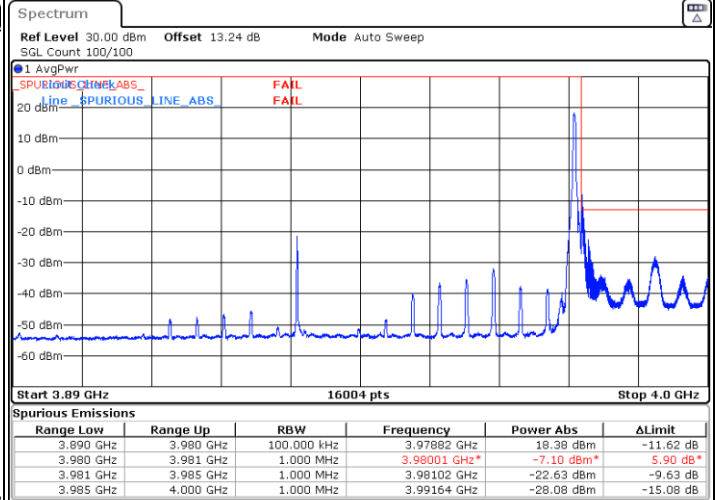
FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



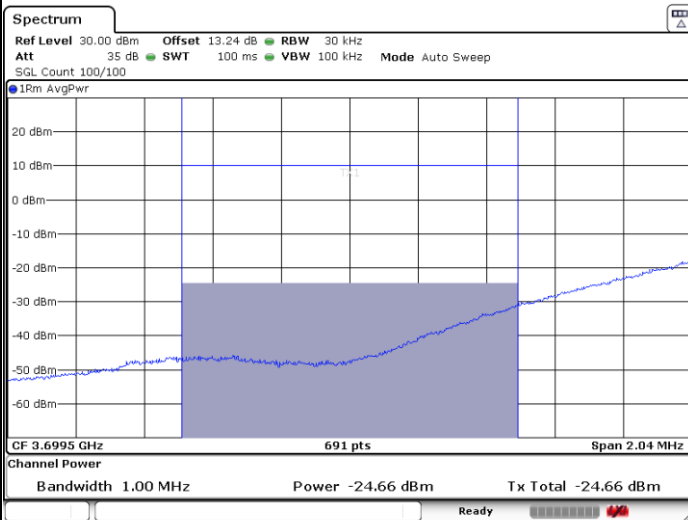
Date: 27.FEB.2021 18:16:58



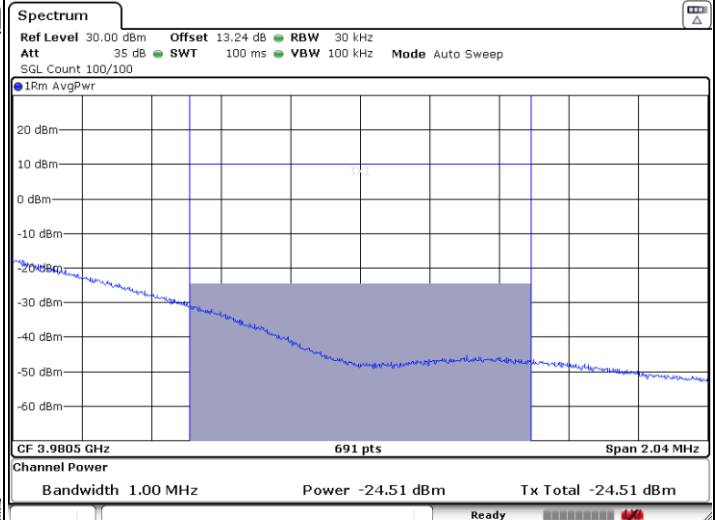
Date: 27.FEB.2021 18:26:23

Channel Power <-13dBm Pass

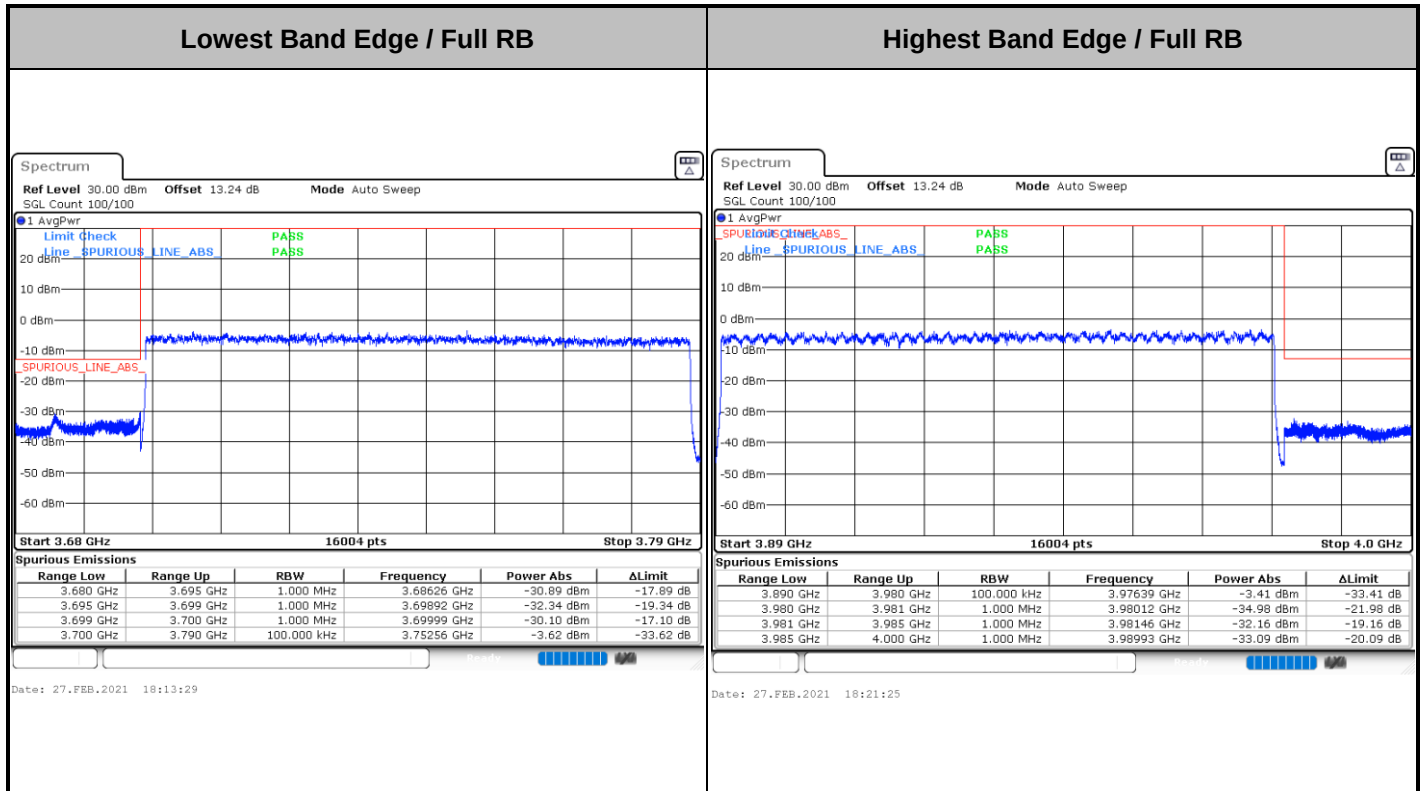
Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:57:40



Date: 27.FEB.2021 20:01:52

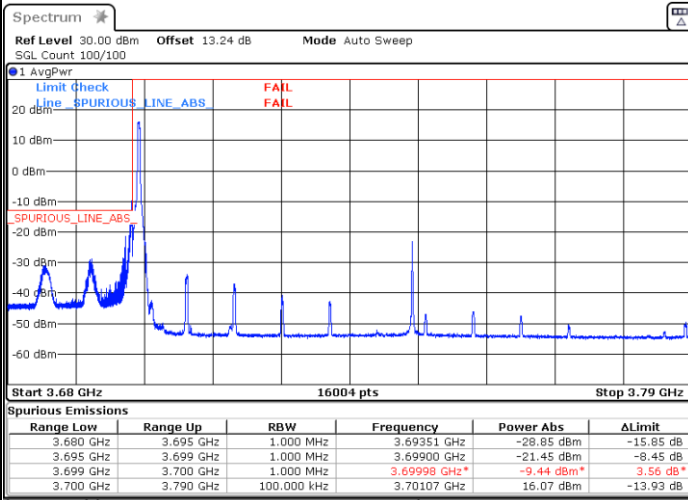




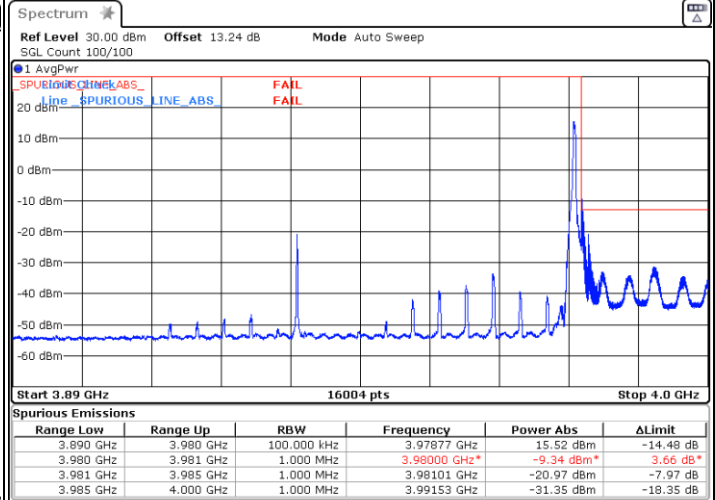
FR1 n77 / 90MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



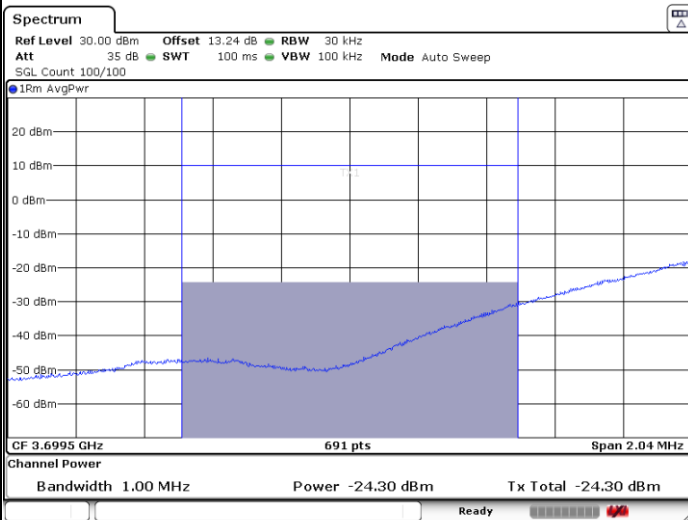
Date: 27.FEB.2021 18:18:02



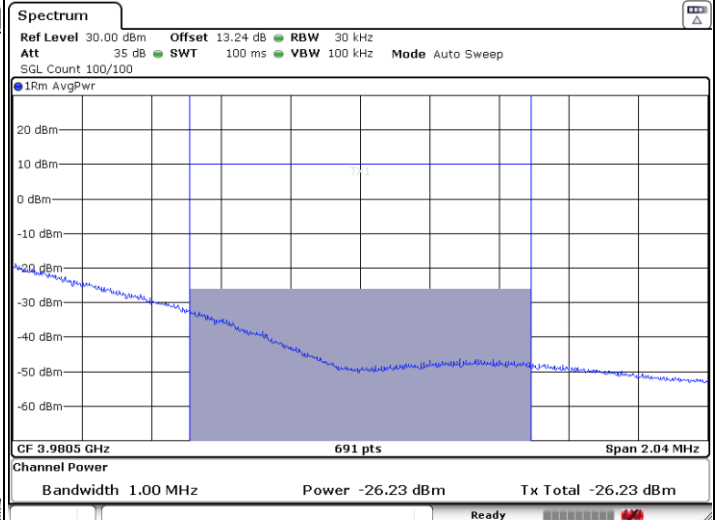
Date: 27.FEB.2021 18:27:47

Channel Power <-13dBm Pass

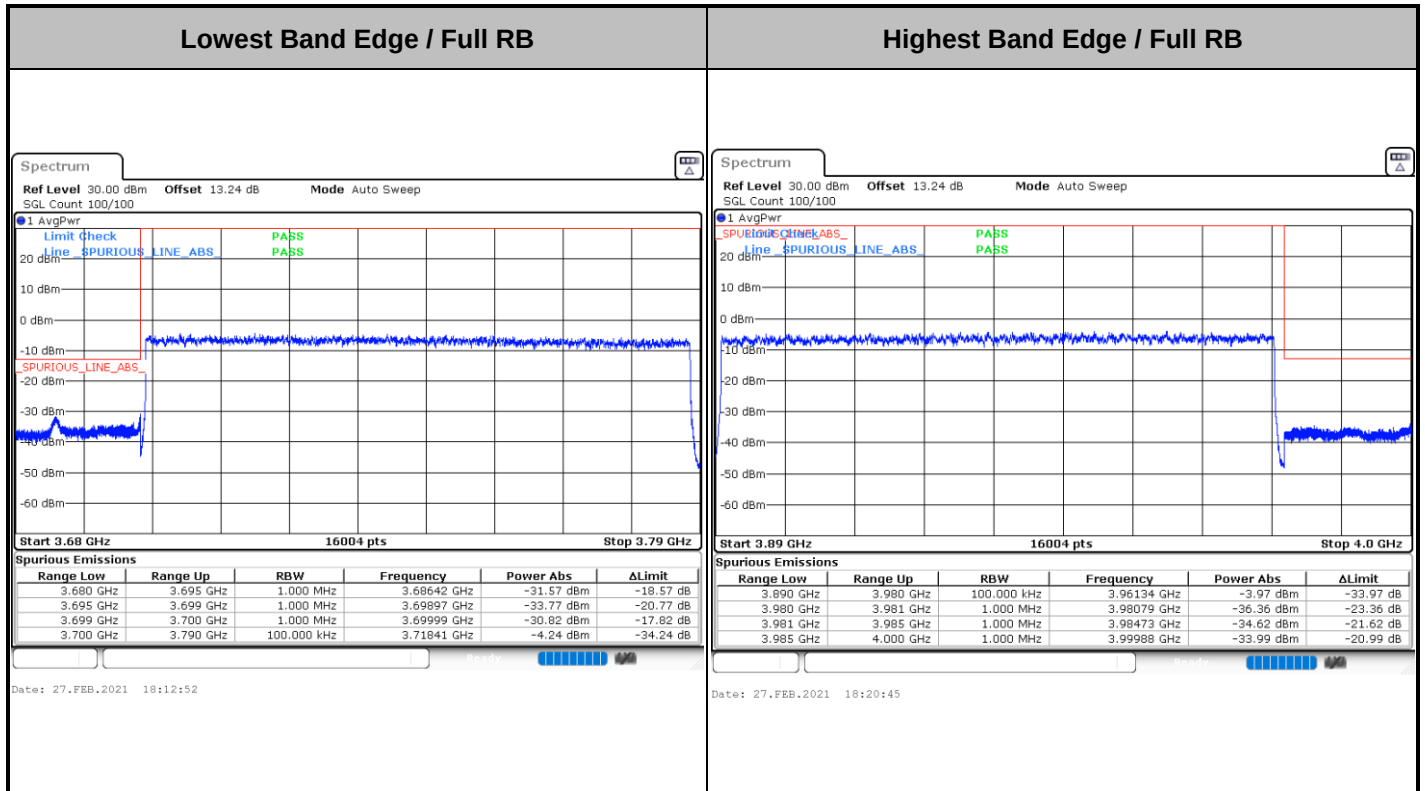
Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:57:10



Date: 27.FEB.2021 20:02:21

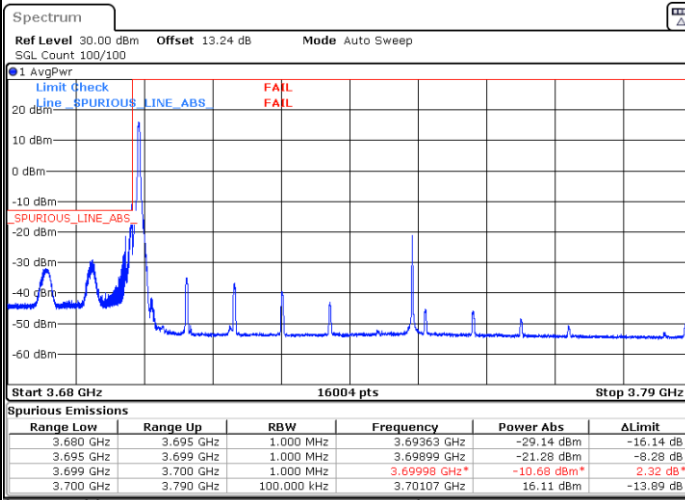




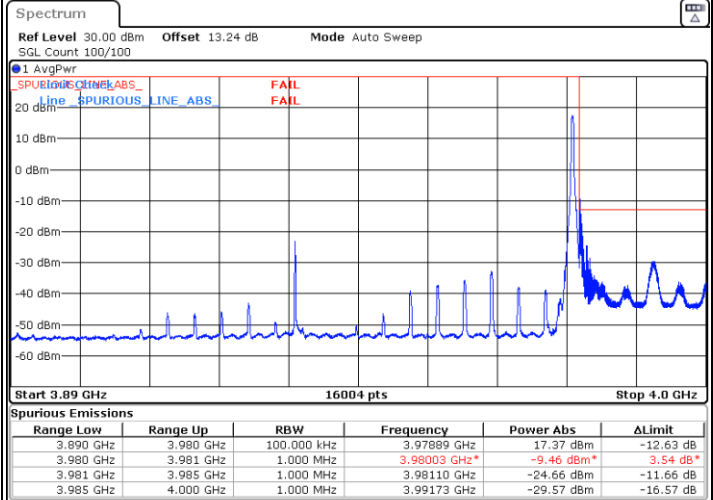
FR1 n77 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



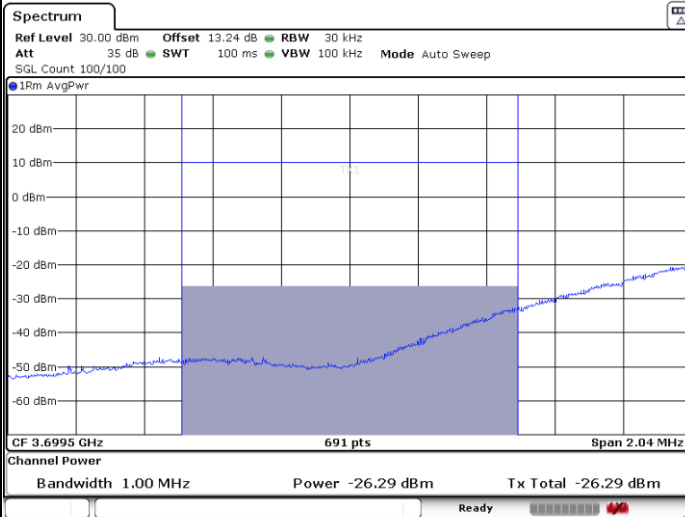
Date: 27.FEB.2021 18:18:59



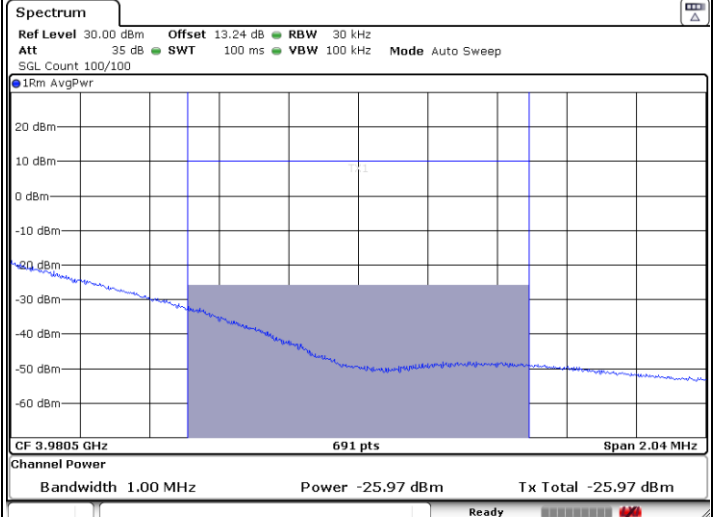
Date: 27.FEB.2021 18:28:51

Channel Power <-13dBm Pass

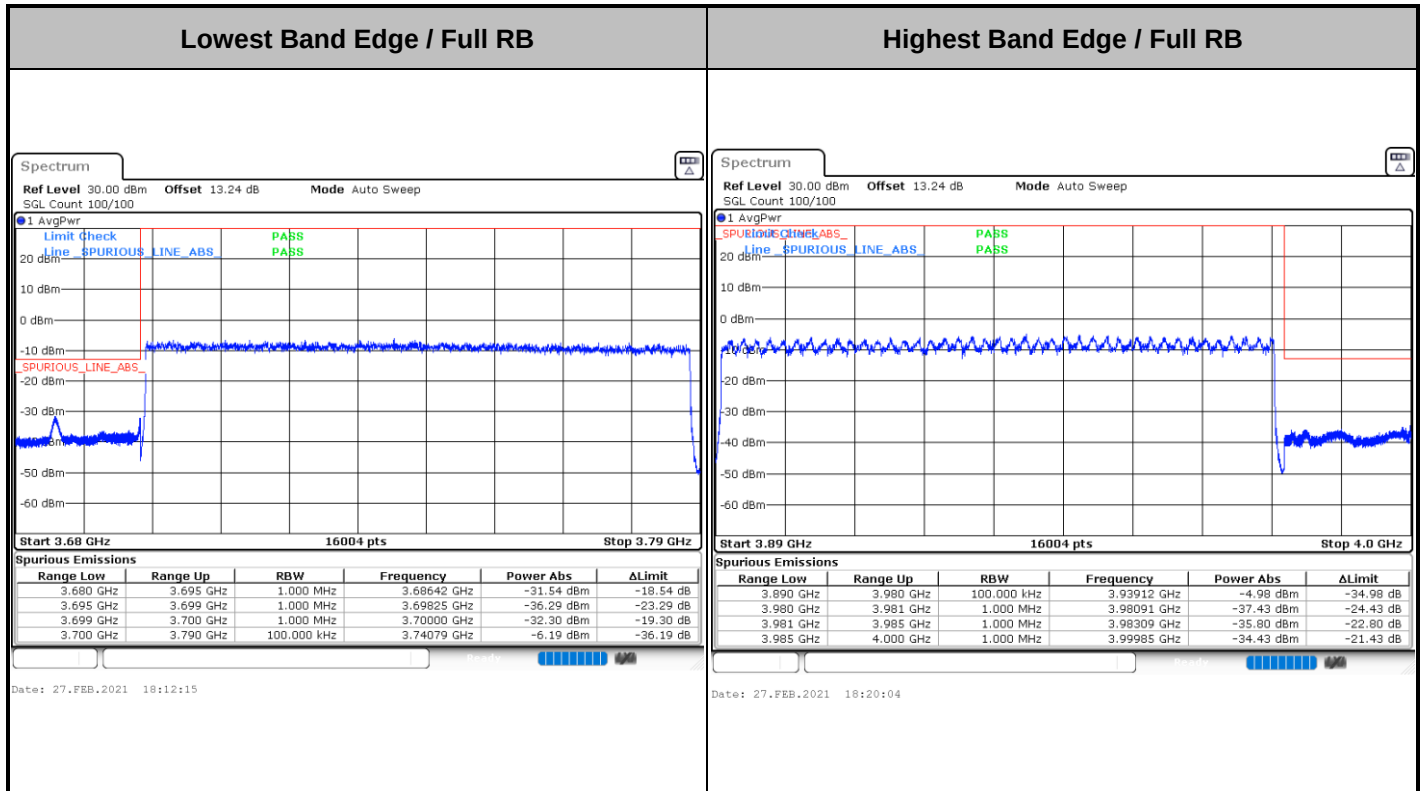
Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:56:32



Date: 27.FEB.2021 20:03:02

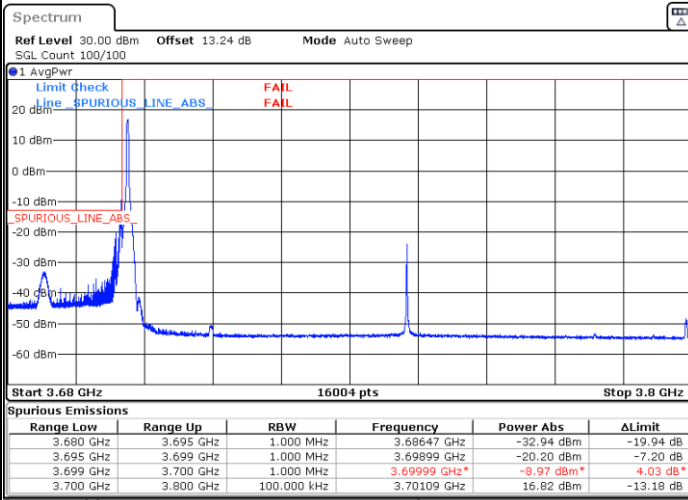




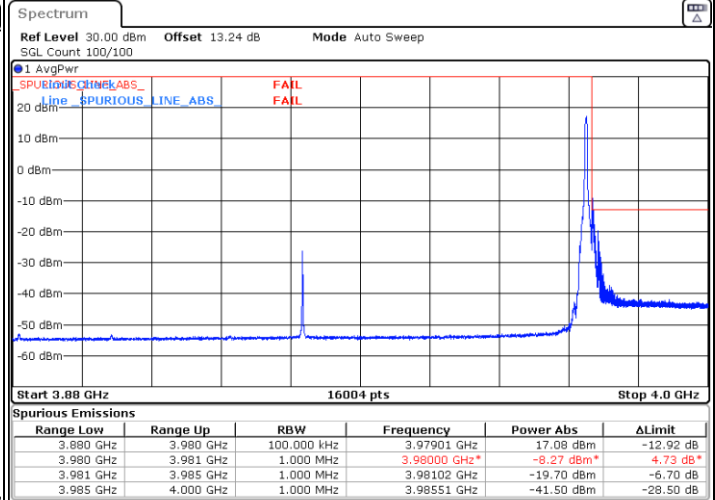
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



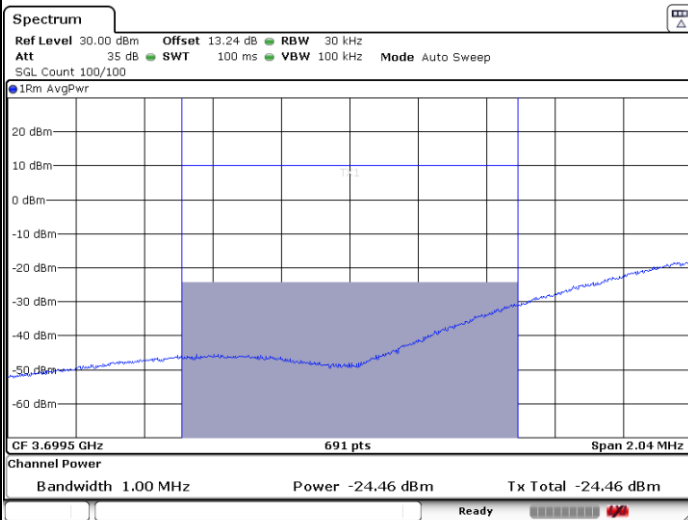
Date: 27.FEB.2021 18:36:04



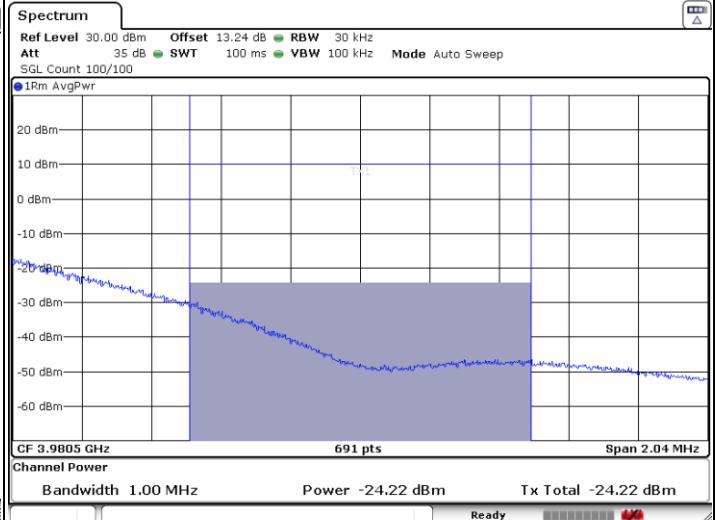
Date: 27.FEB.2021 18:44:15

Channel Power <-13dBm Pass

Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:52:58

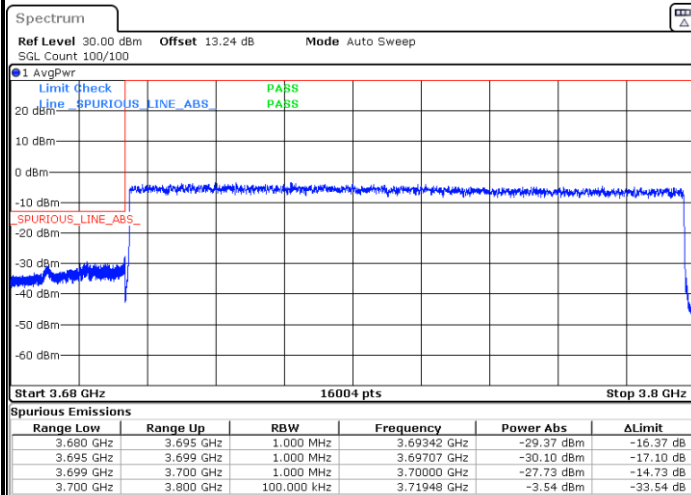


Date: 27.FEB.2021 19:49:56

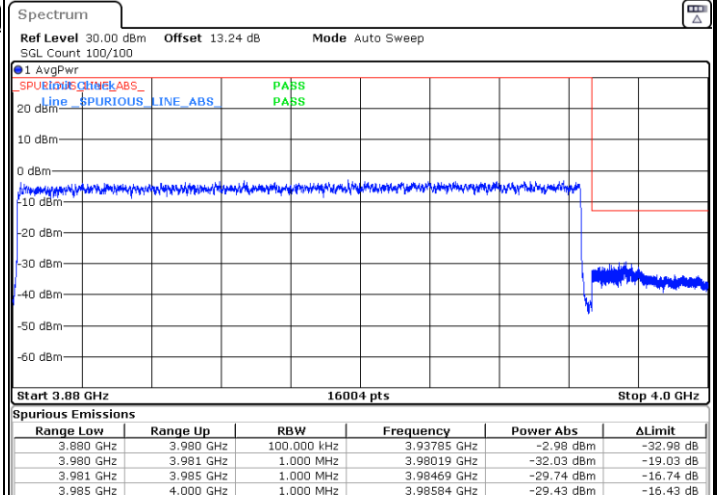


Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.FEB.2021 18:33:52



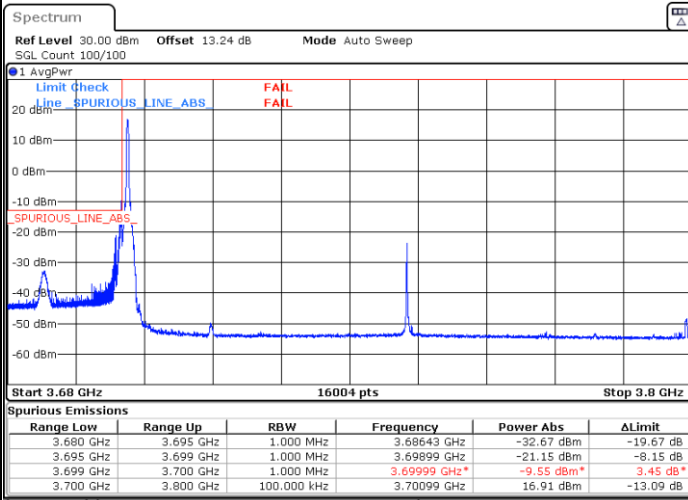
Date: 27.FEB.2021 18:41:54



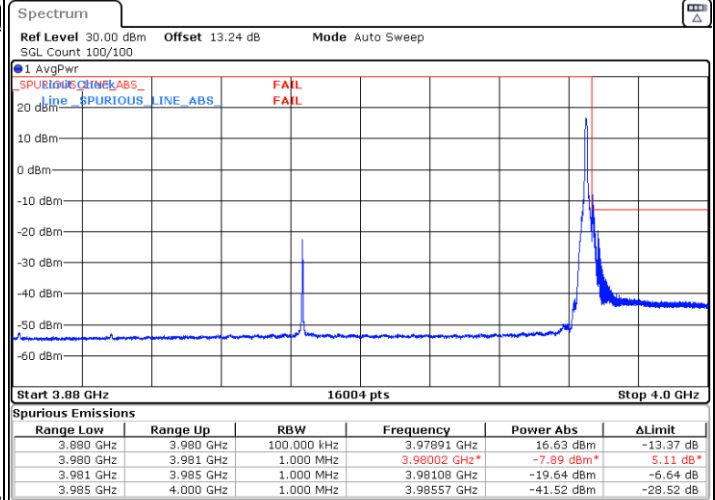
FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



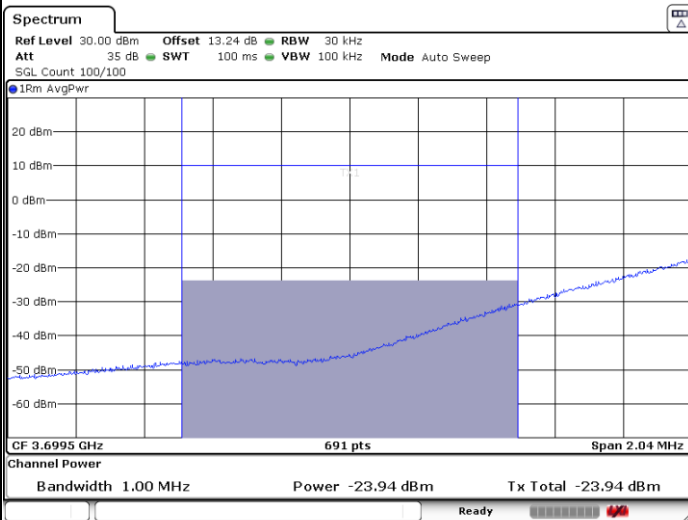
Date: 27.FEB.2021 18:36:42



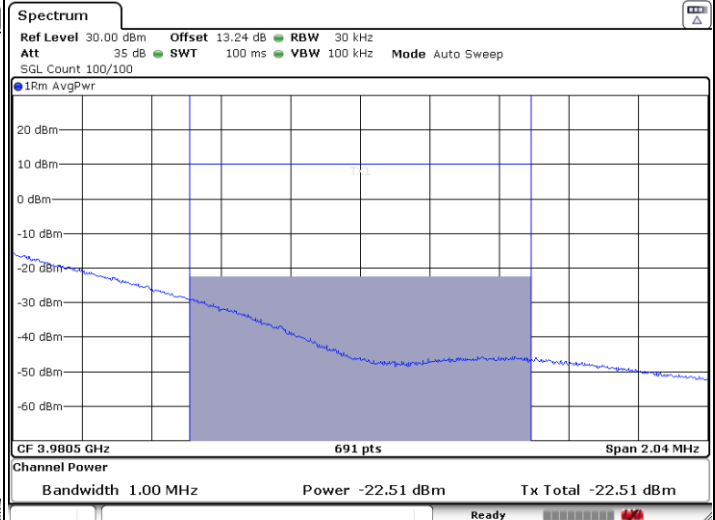
Date: 27.FEB.2021 18:45:04

Channel Power <-13dBm Pass

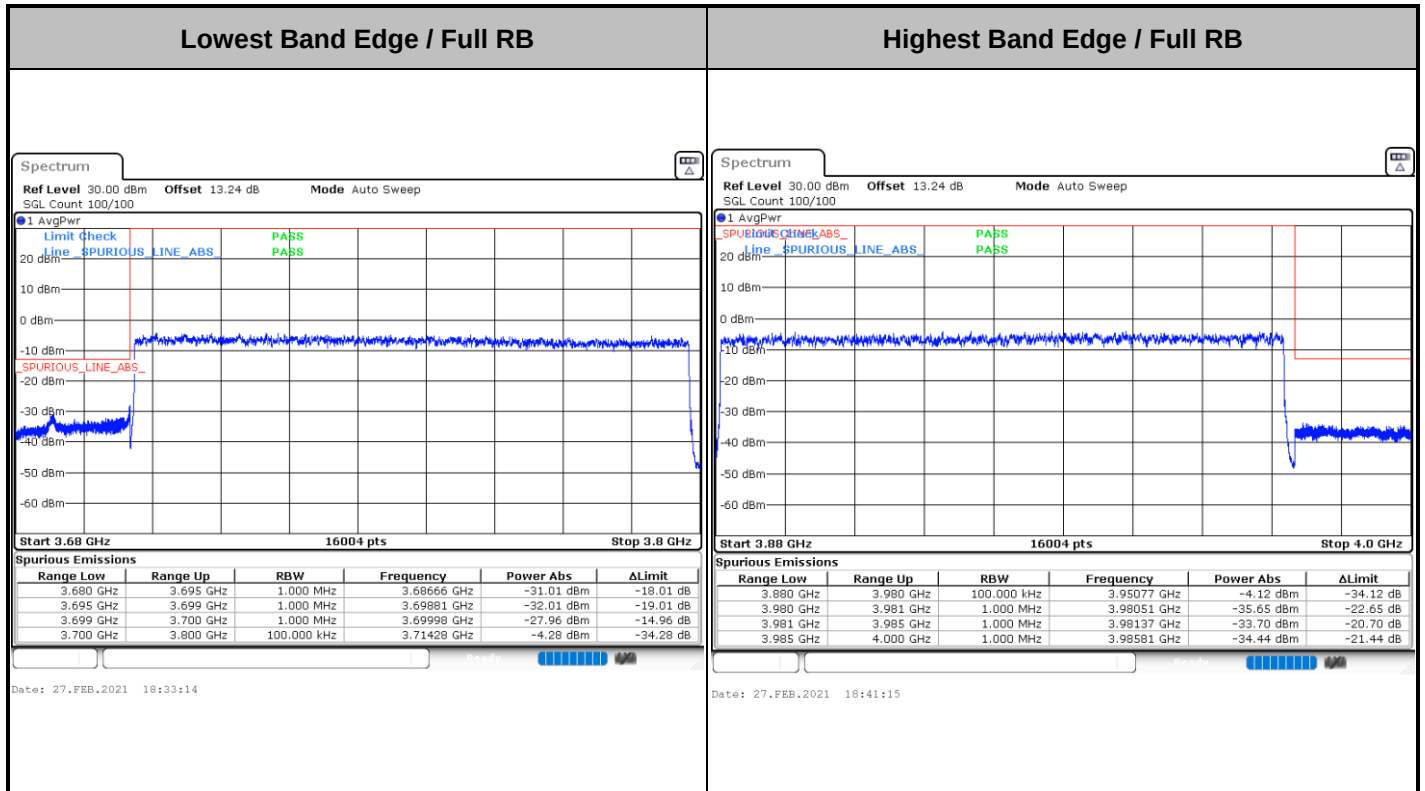
Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:53:28



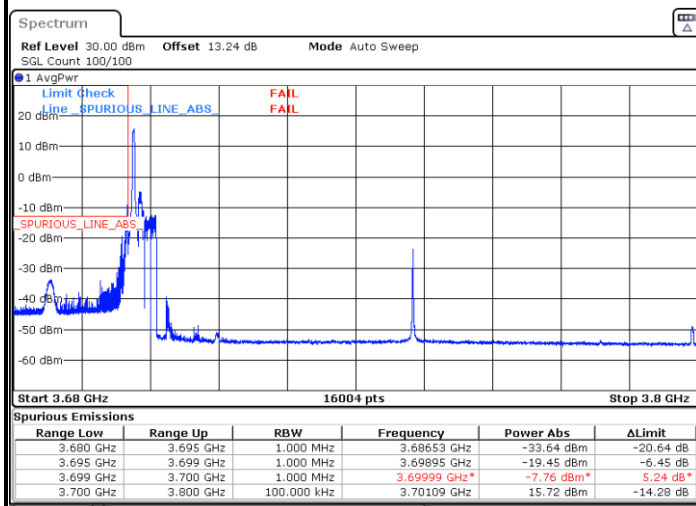
Date: 27.FEB.2021 19:49:27





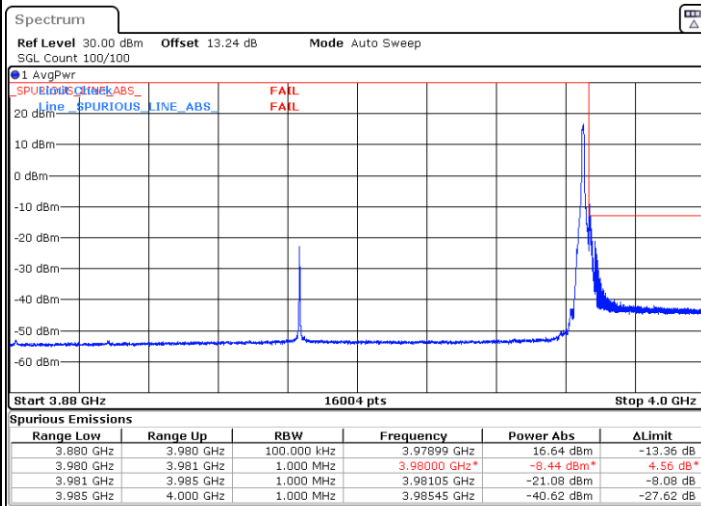
FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



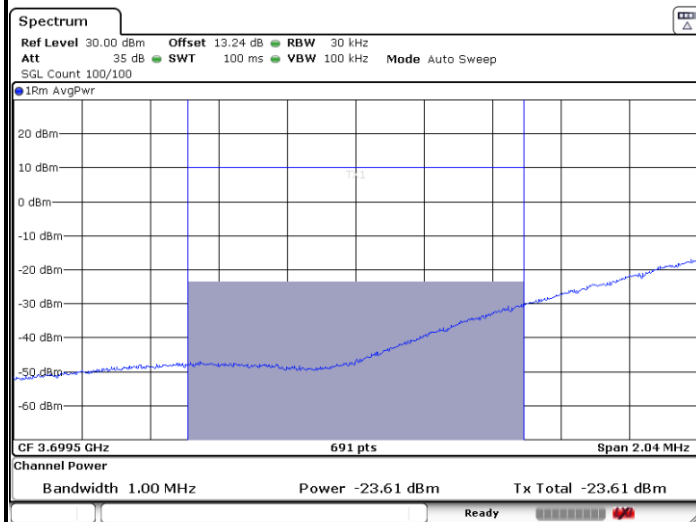
Date: 27.FEB.2021 18:37:23

Highest Band Edge / 1RBmax



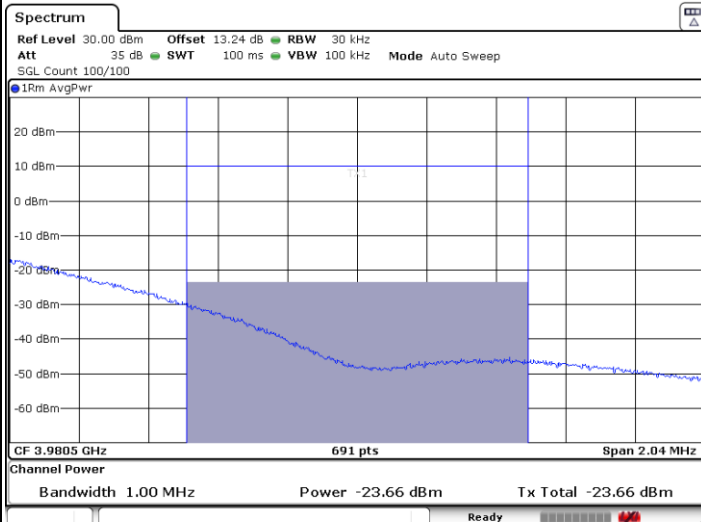
Date: 27.FEB.2021 18:45:44

Channel Power <-13dBm Pass

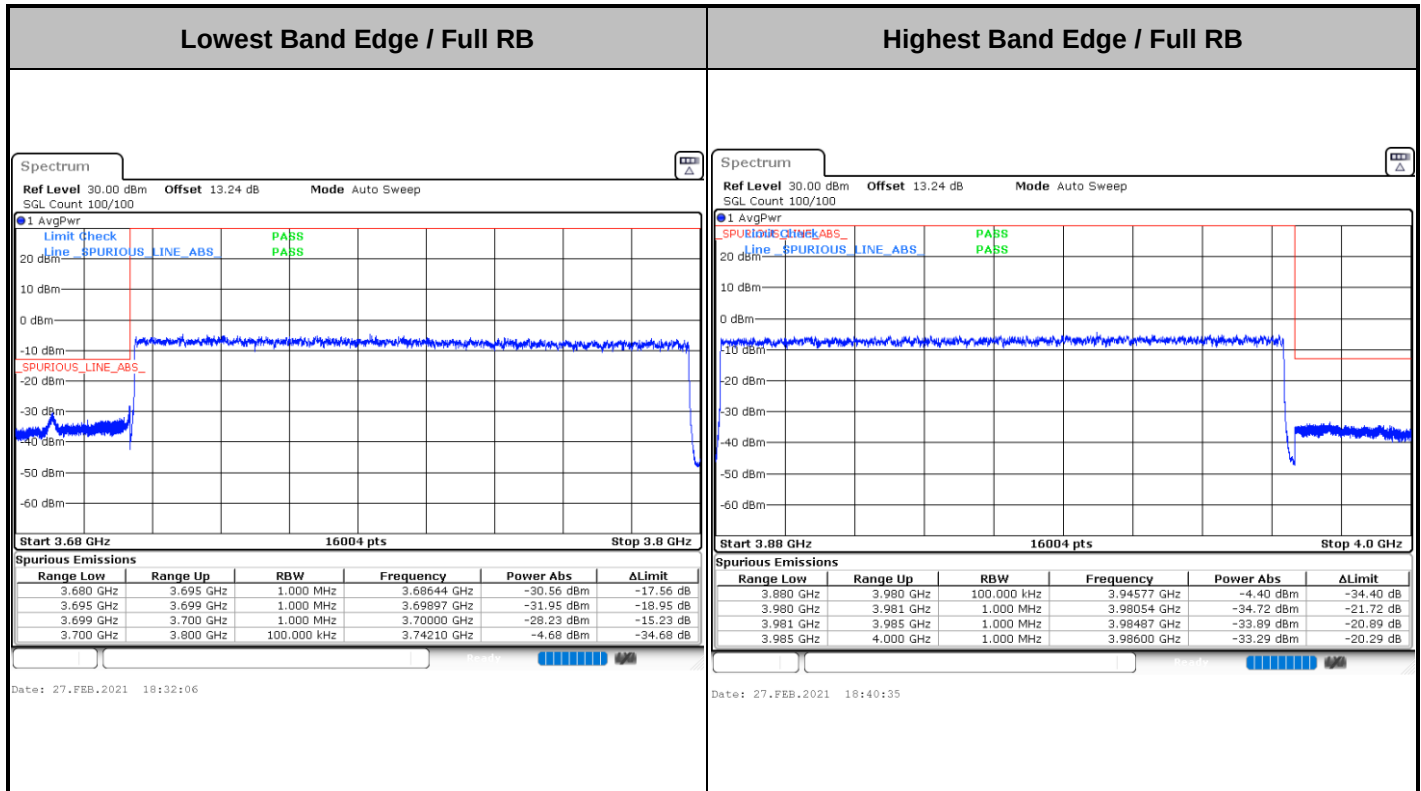


Date: 27.FEB.2021 19:53:59

Channel Power <-13dBm Pass



Date: 27.FEB.2021 19:48:54

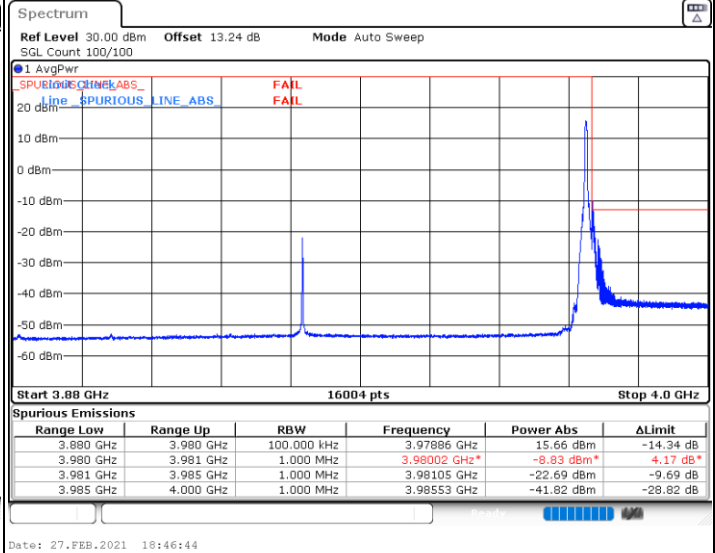
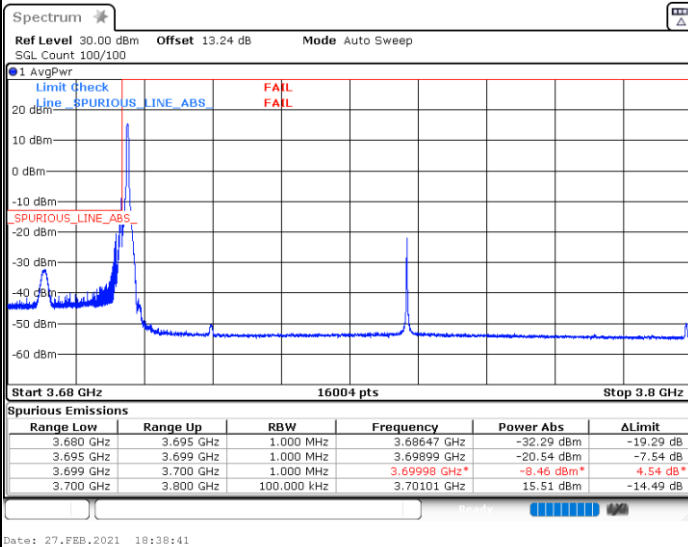




FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

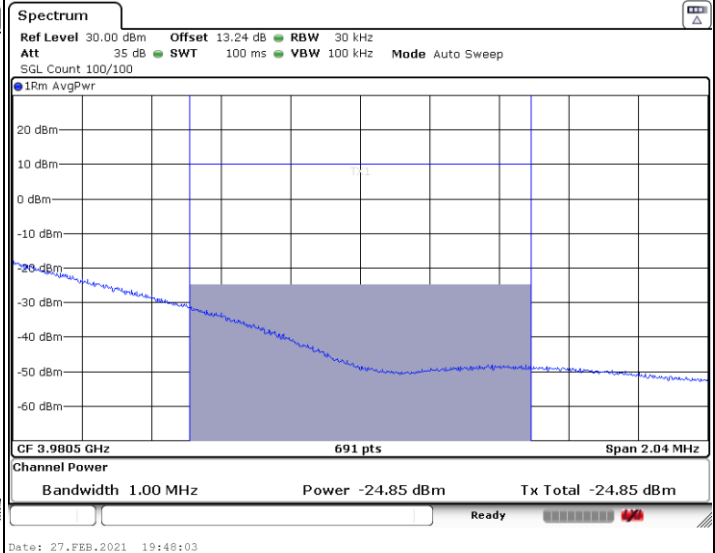
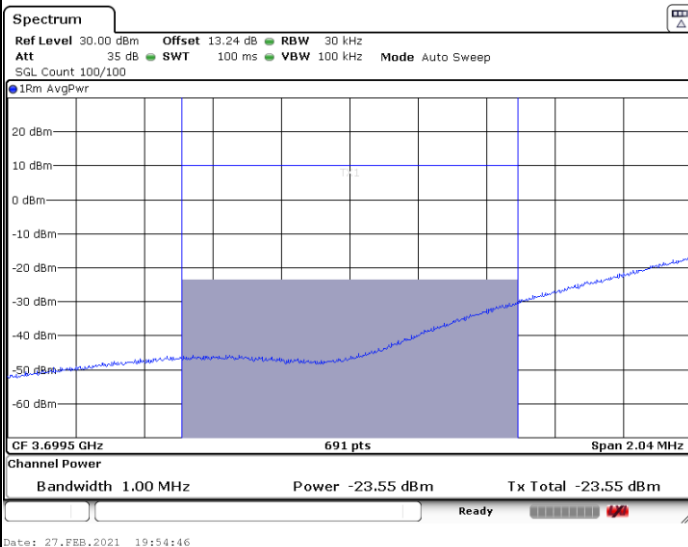
Lowest Band Edge / 1RB0

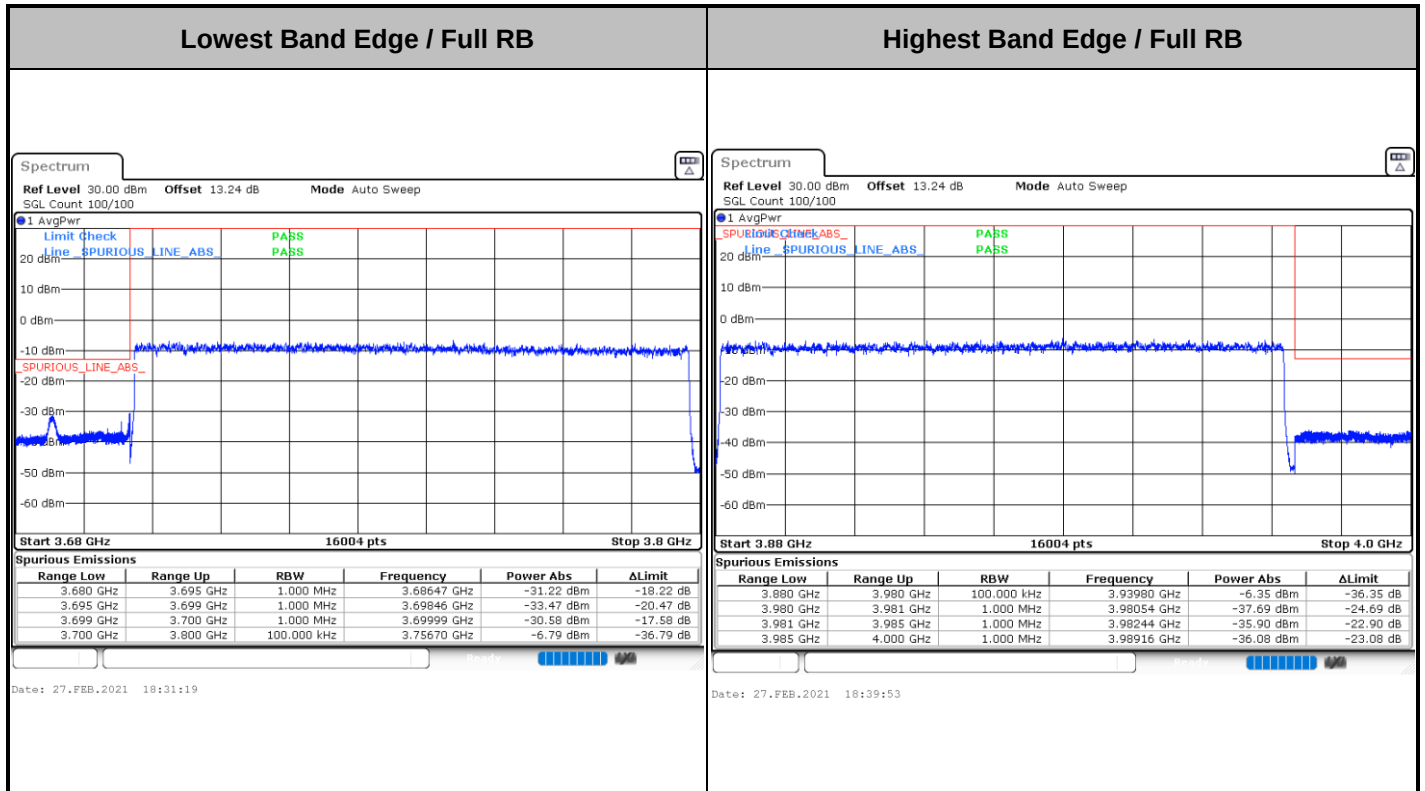
Highest Band Edge / 1RBmax



Channel Power <-13dBm Pass

Channel Power <-13dBm Pass



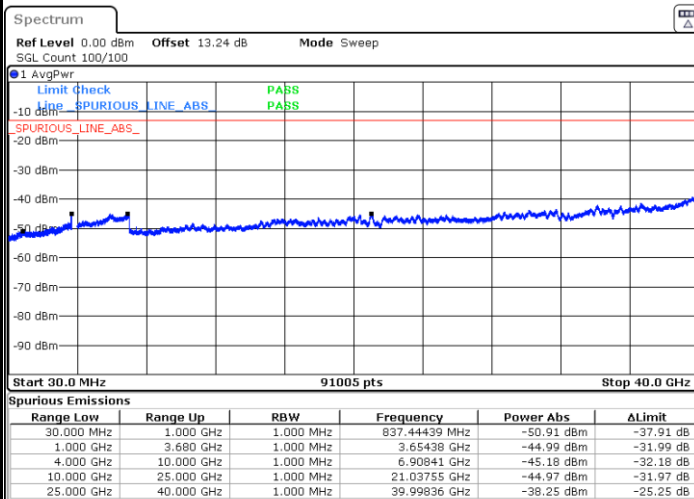




Conducted Spurious Emission

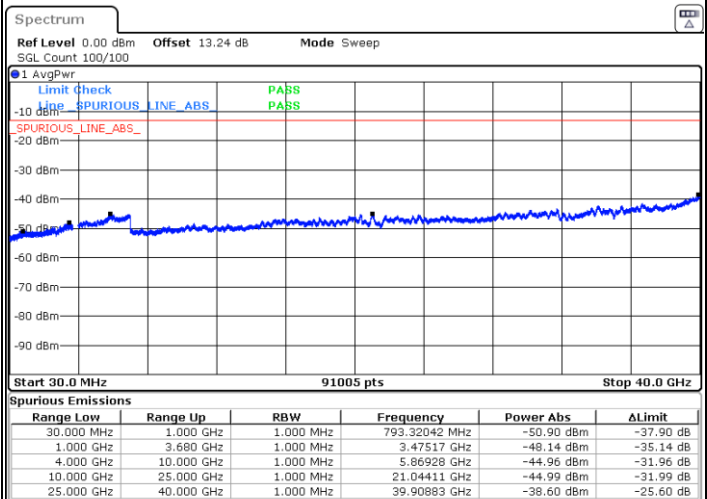
FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



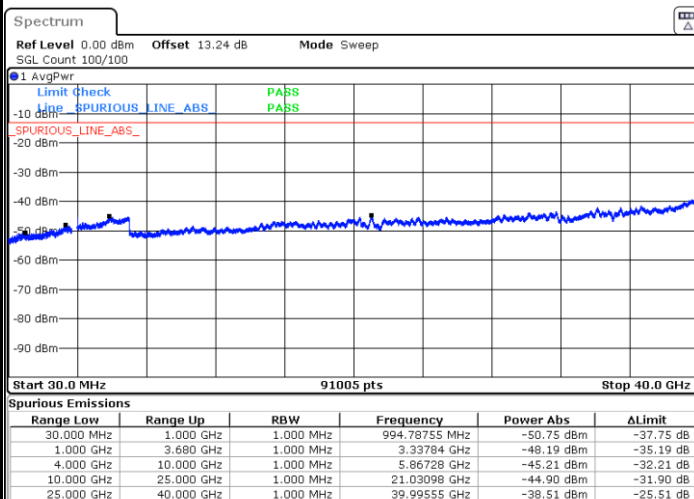
Date: 25.FEB.2021 14:05:40

Middle Channel / 1RB1



Date: 25.FEB.2021 14:08:20

Highest Channel / 1RB1



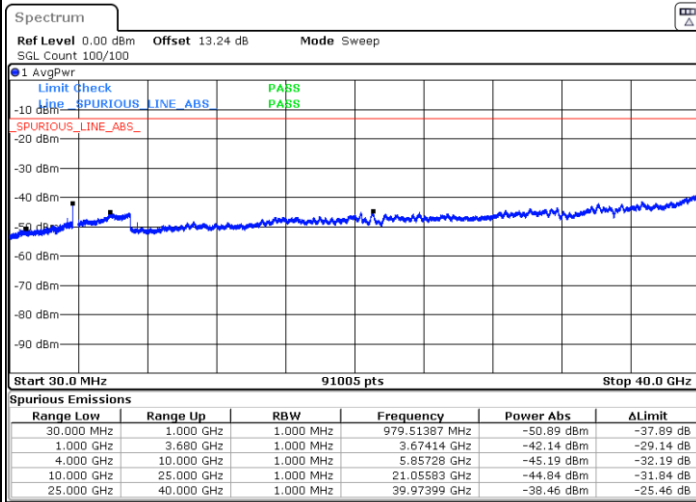
Date: 25.FEB.2021 14:10:49



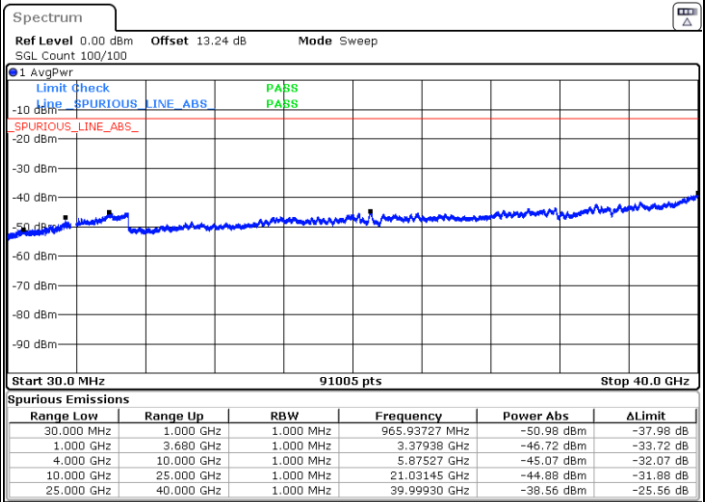
FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

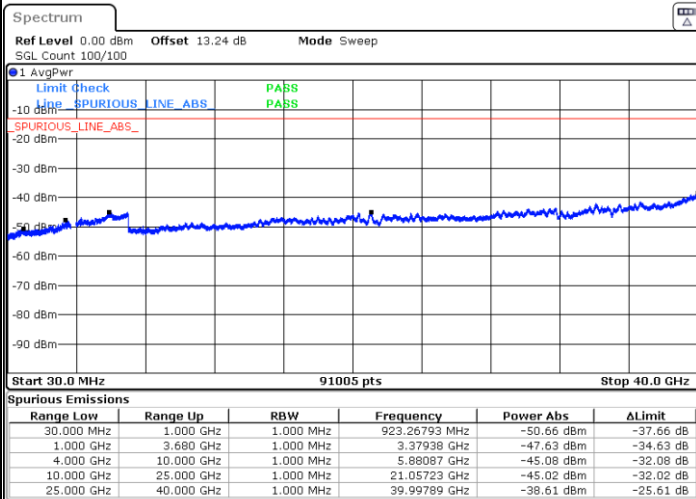


Date: 25.FEB.2021 13:48:49



Date: 25.FEB.2021 13:51:09

Highest Channel / 1RB1

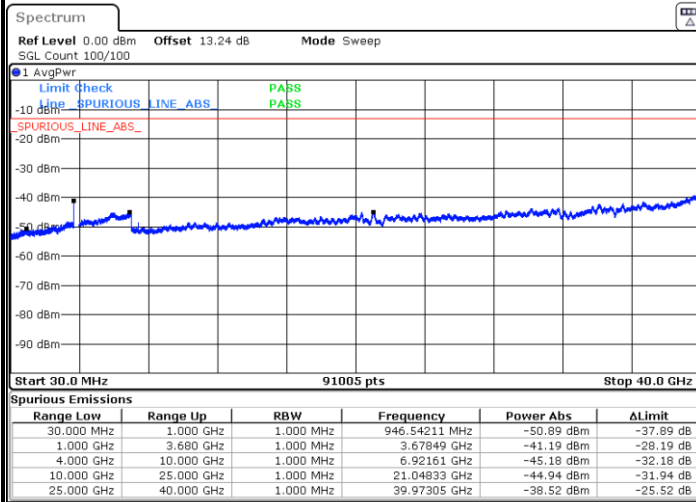


Date: 25.FEB.2021 13:53:10



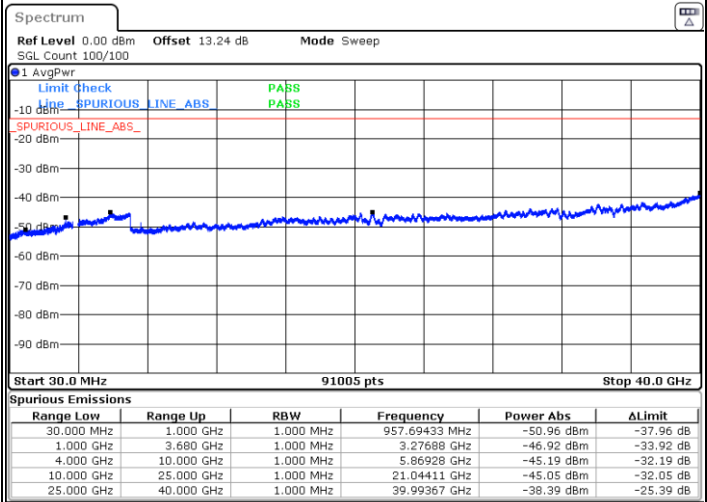
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



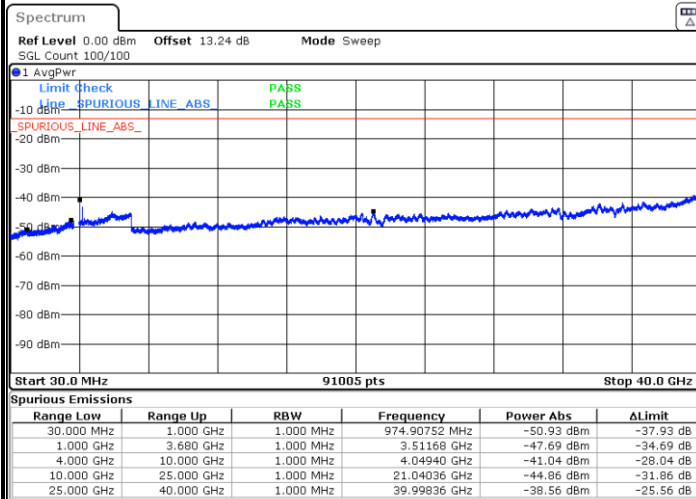
Date: 25.FEB.2021 13:46:38

Middle Channel / 1RB1



Date: 25.FEB.2021 13:44:52

Highest Channel / 1RB1



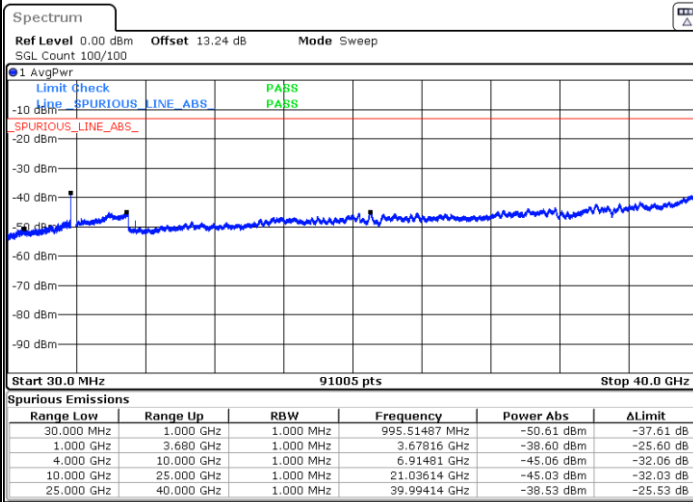
Date: 25.FEB.2021 13:40:44



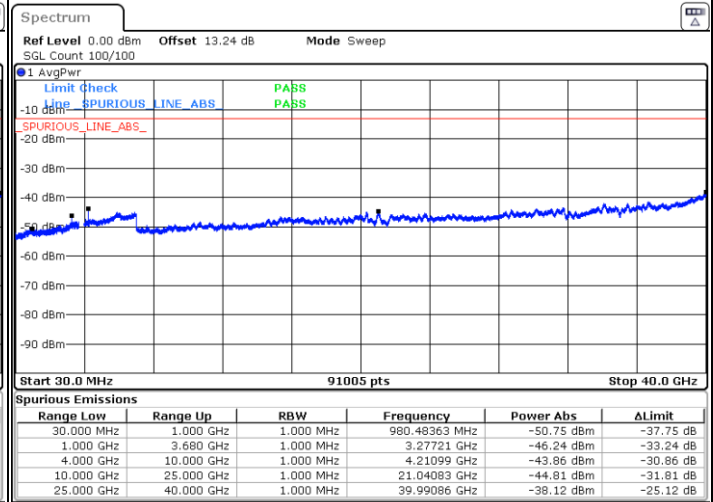
FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

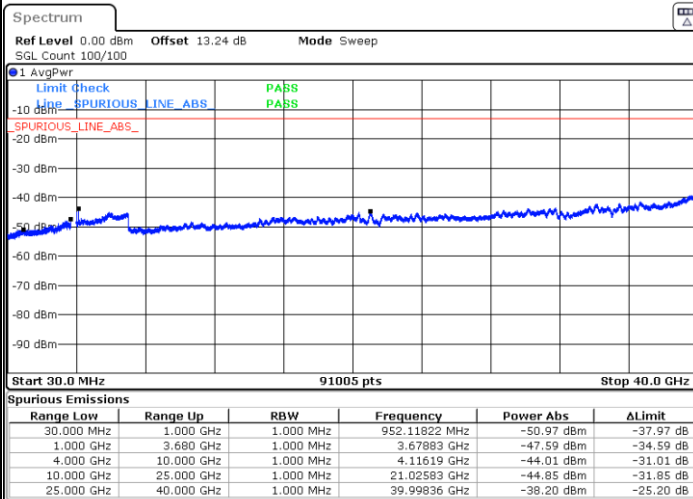


Date: 25.FEB.2021 14:40:18



Date: 25.FEB.2021 14:42:39

Highest Channel / 1RB1

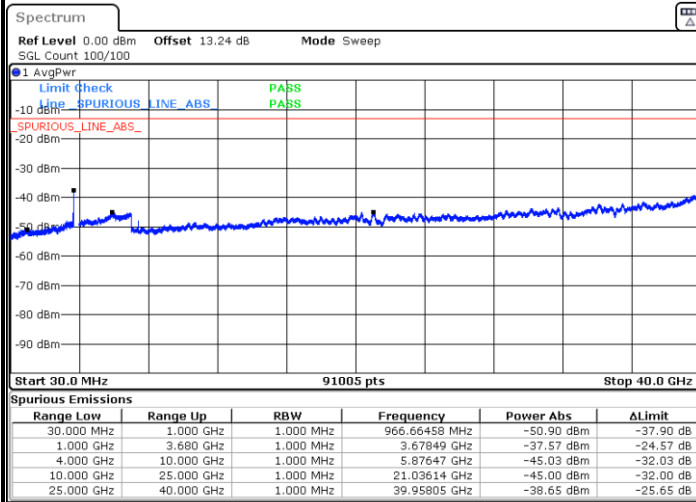


Date: 25.FEB.2021 14:44:42



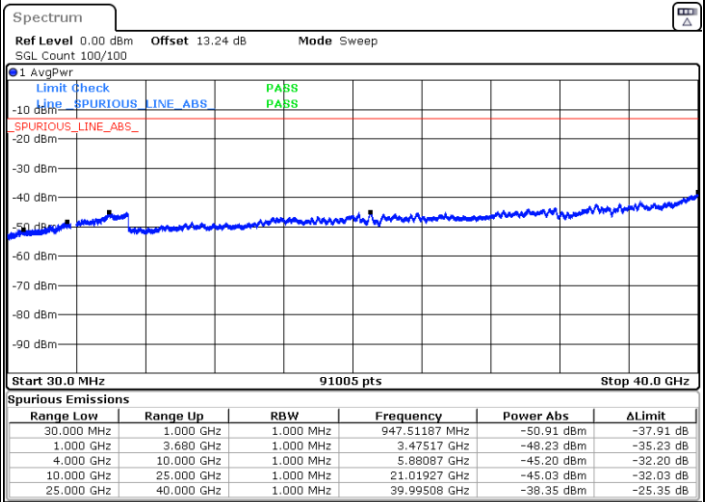
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



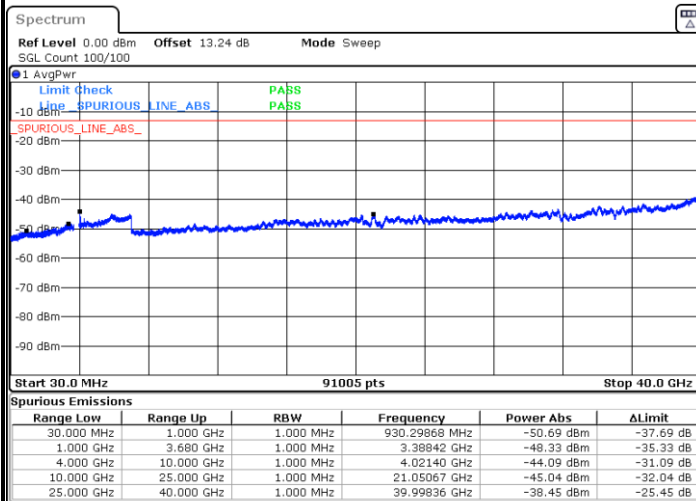
Date: 25.FEB.2021 15:03:58

Middle Channel / 1RB1



Date: 25.FEB.2021 15:05:29

Highest Channel / 1RB1

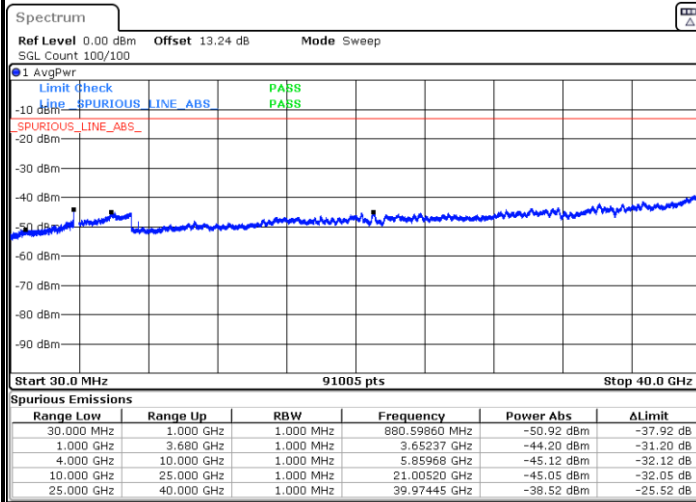


Date: 25.FEB.2021 15:07:23



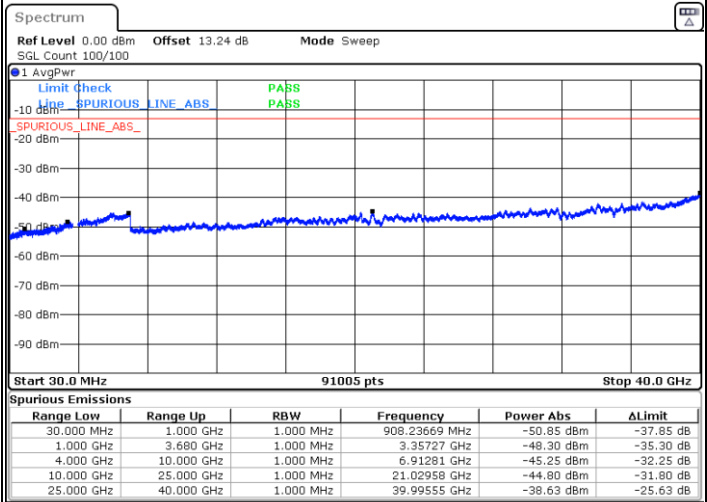
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



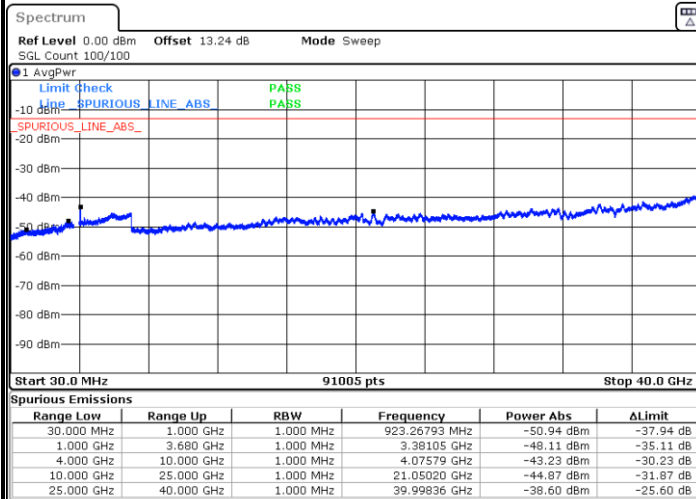
Date: 25.FEB.2021 15:45:25

Middle Channel / 1RB1



Date: 25.FEB.2021 15:48:17

Highest Channel / 1RB1



Date: 25.FEB.2021 15:49:46

Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission SA mode

ANT.1: GHT-019A

5G NR n77 / NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.24	-13	-48.24	-71.72	2.76	13.24	H
	11388	-58.80	-13	-45.80	-68.39	3.42	13.01	H
	15180	-57.99	-13	-44.99	-67.60	3.83	13.44	H
	7590	-61.40	-13	-48.40	-71.84	2.80	13.24	V
	11388	-58.93	-13	-45.93	-68.48	3.46	13.01	V
	15180	-58.61	-13	-45.61	-68.17	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Radiated Spurious Emission NSA mode

ANT.1: GHT-019A

EN-DC_13A_n77A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.46	-13	-48.46	-71.94	2.76	13.24	H
	11388	-58.55	-13	-45.55	-68.14	3.42	13.01	H
	15180	-58.30	-13	-45.30	-67.91	3.83	13.44	H
	7590	-61.10	-13	-48.10	-71.54	2.80	13.24	V
	11388	-58.45	-13	-45.45	-68.00	3.46	13.01	V
	15180	-58.44	-13	-45.44	-68.00	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ANT.1: GHT-019A

EN-DC_2A_n77A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.46	-13	-48.46	-71.94	2.76	13.24	H
	11388	-58.86	-13	-45.86	-68.45	3.42	13.01	H
	15180	-58.22	-13	-45.22	-67.83	3.83	13.44	H
	7590	-61.40	-13	-48.40	-71.84	2.80	13.24	V
	11388	-58.57	-13	-45.57	-68.12	3.46	13.01	V
	15180	-58.24	-13	-45.24	-67.80	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ANT.1: GHT-019A

EN-DC_5A_n77A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.53	-13	-48.53	-72.01	2.76	13.24	H
	11388	-58.77	-13	-45.77	-68.36	3.42	13.01	H
	15180	-58.34	-13	-45.34	-67.95	3.83	13.44	H
	7590	-61.67	-13	-48.67	-72.11	2.80	13.24	V
	11388	-58.89	-13	-45.89	-68.44	3.46	13.01	V
	15180	-58.16	-13	-45.16	-67.72	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



ANT.1: GHT-019A

EN-DC_66A_n77A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.19	-13	-48.19	-71.67	2.76	13.24	H
	11388	-58.87	-13	-45.87	-68.46	3.42	13.01	H
	15180	-58.37	-13	-45.37	-67.98	3.83	13.44	H
	7590	-61.26	-13	-48.26	-71.70	2.80	13.24	V
	11388	-58.88	-13	-45.88	-68.43	3.46	13.01	V
	15180	-58.23	-13	-45.23	-67.79	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ANT.2: AN0750-64S01BSM

EN-DC_13A_n77A / LTE 10MHz + NR 100MHz / QPSK DFT-s-OFDM								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.44	-13	-48.44	-71.92	2.76	13.24	H
	11388	-58.54	-13	-45.54	-68.13	3.42	13.01	H
	15180	-59.84	-13	-46.84	-69.45	3.83	13.44	H
	7590	-61.51	-13	-48.51	-71.95	2.80	13.24	V
	11388	-58.38	-13	-45.38	-67.93	3.46	13.01	V
	15180	-59.77	-13	-46.77	-69.33	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.