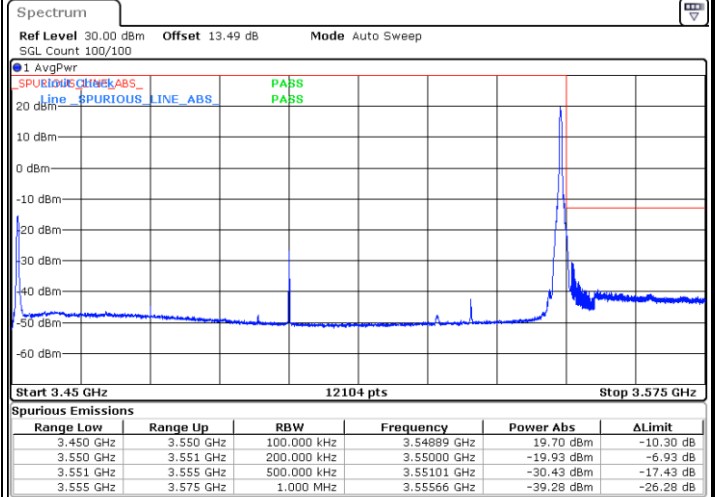
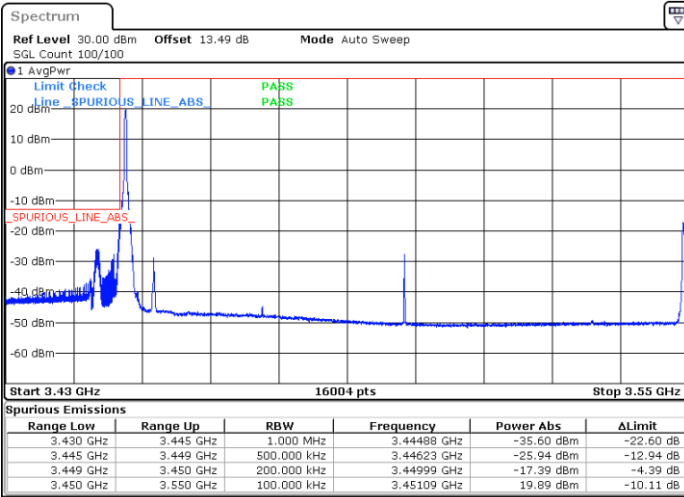




FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

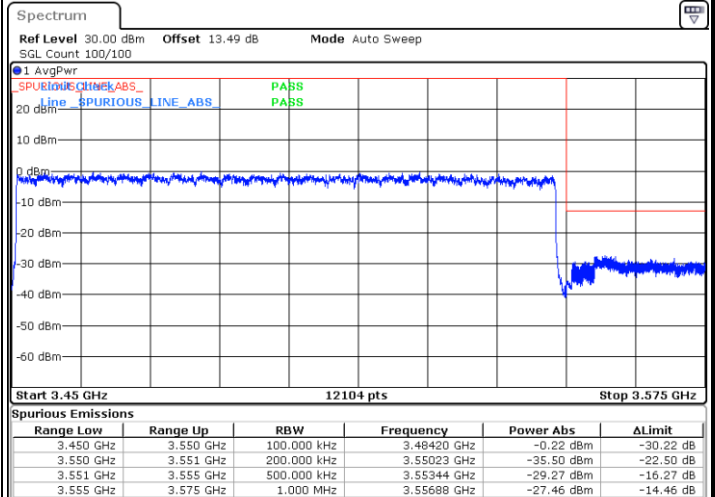
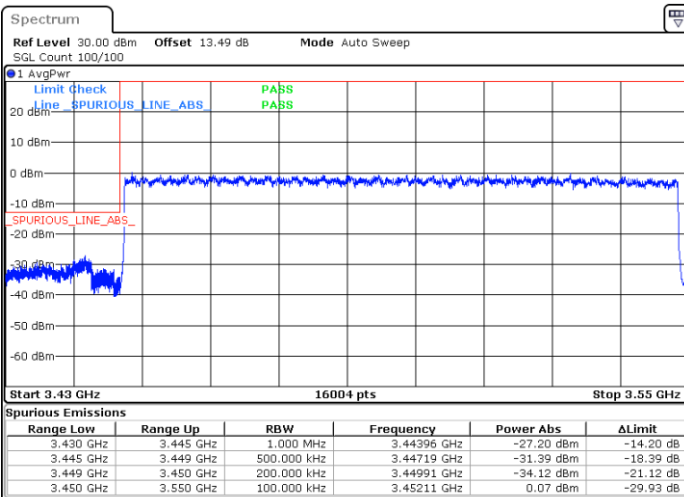


Date: 15.MAR.2022 08:12:47

Date: 15.MAR.2022 07:33:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAR.2022 08:13:36

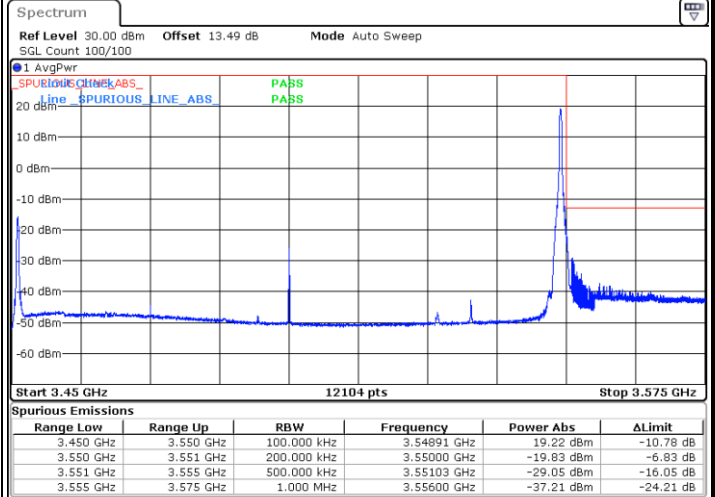
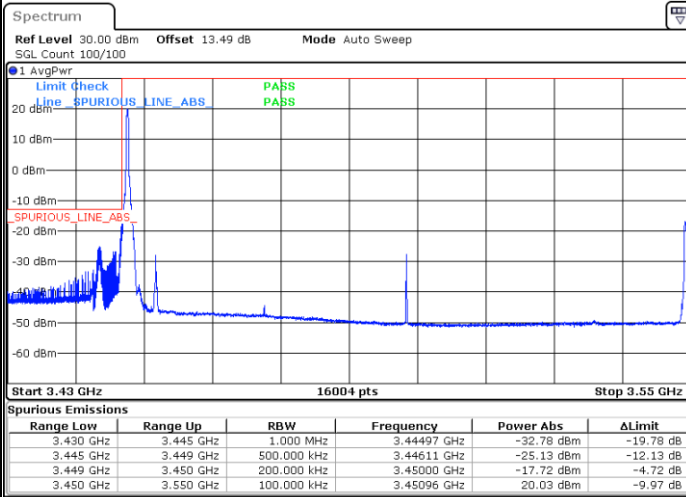
Date: 15.MAR.2022 08:14:11



FR1 n78 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

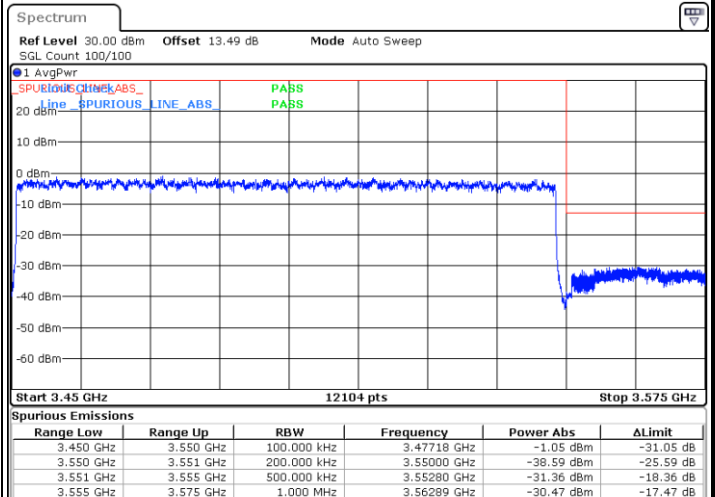
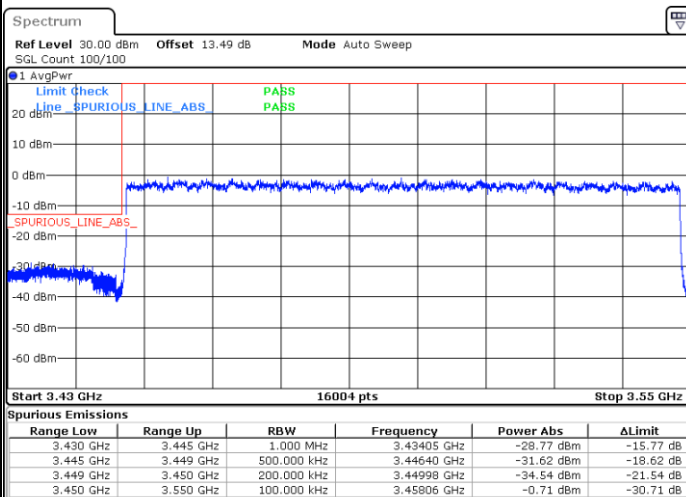


Date: 15.MAR.2022 08:11:47

Date: 15.MAR.2022 07:38:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAR.2022 08:10:35

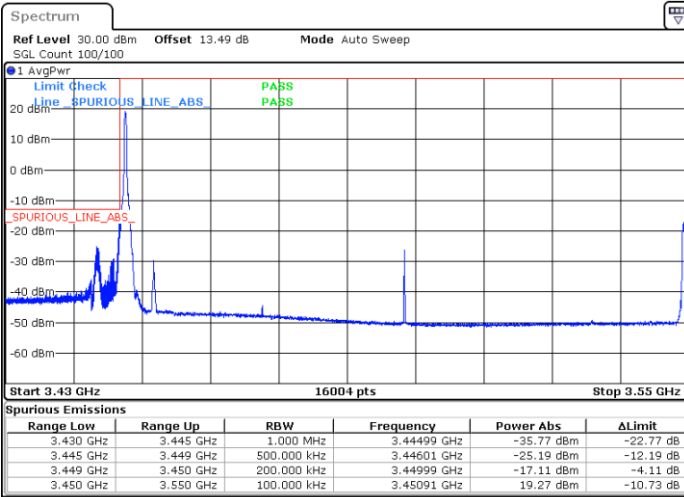
Date: 15.MAR.2022 08:09:36



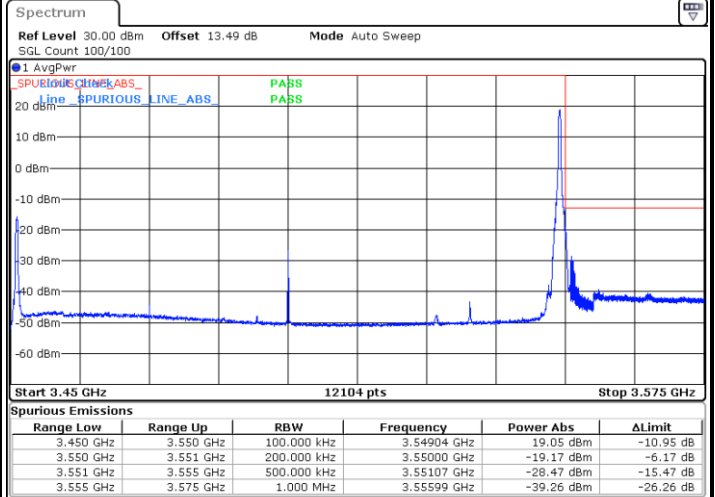
FR1 n78 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



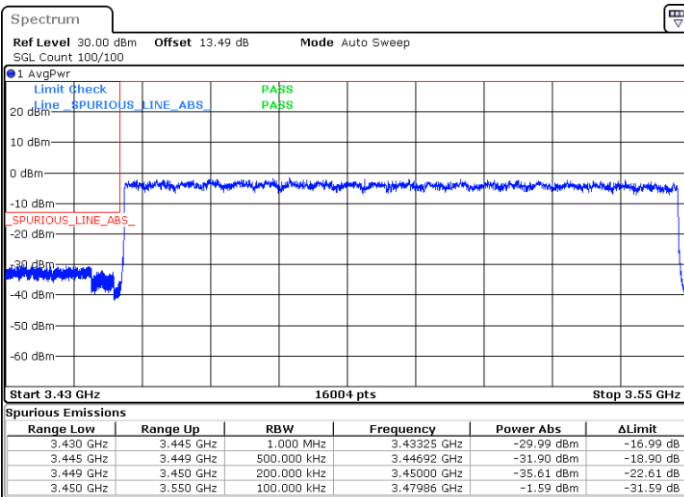
Date: 15.MAR.2022 08:05:59



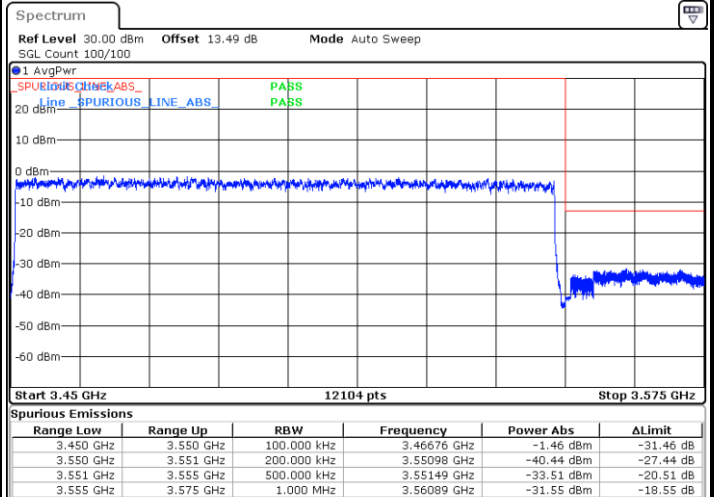
Date: 15.MAR.2022 07:40:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAR.2022 08:07:00



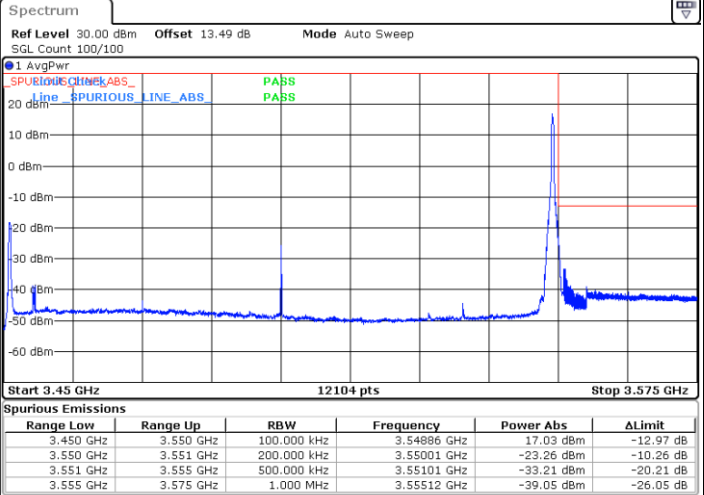
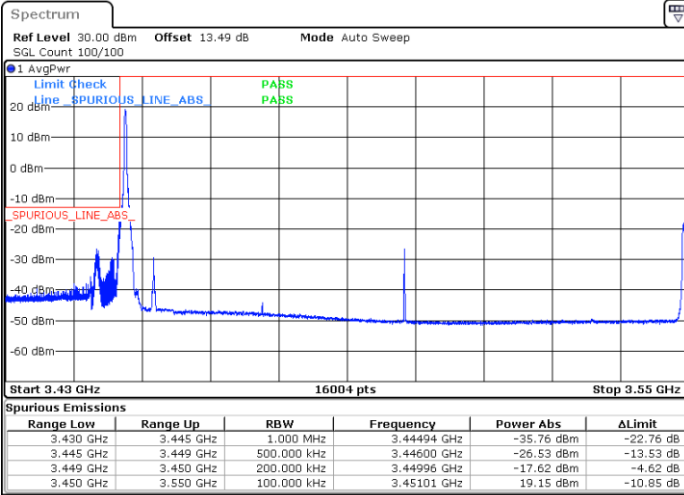
Date: 15.MAR.2022 08:07:55



FR1 n78 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

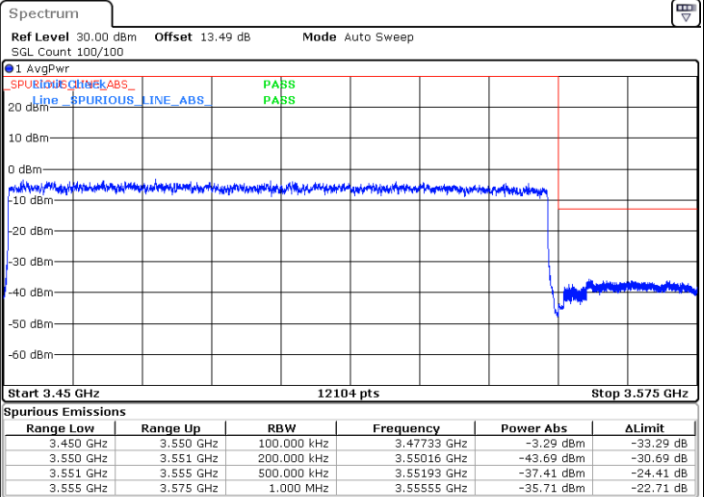
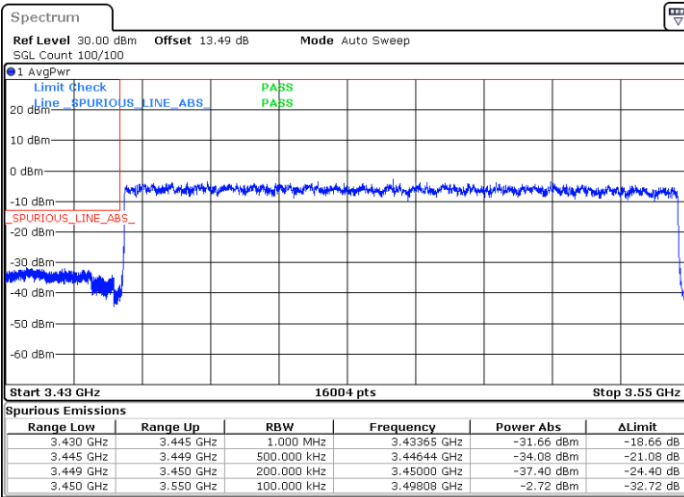


Date: 15.MAR.2022 08:04:47

Date: 15.MAR.2022 07:49:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAR.2022 08:03:02

Date: 15.MAR.2022 07:54:02

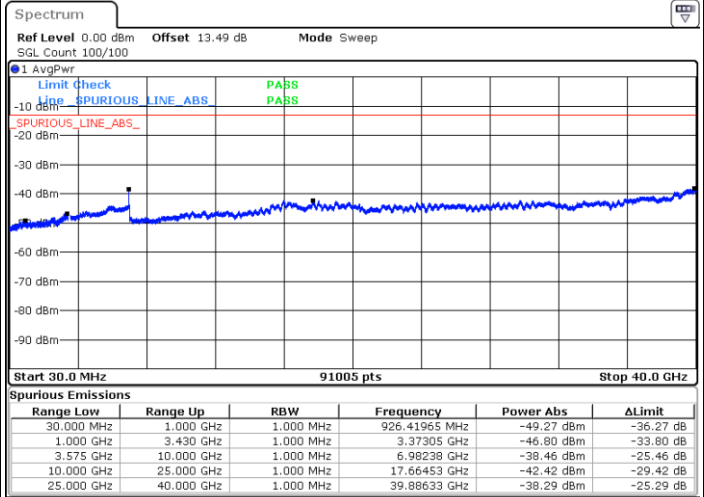
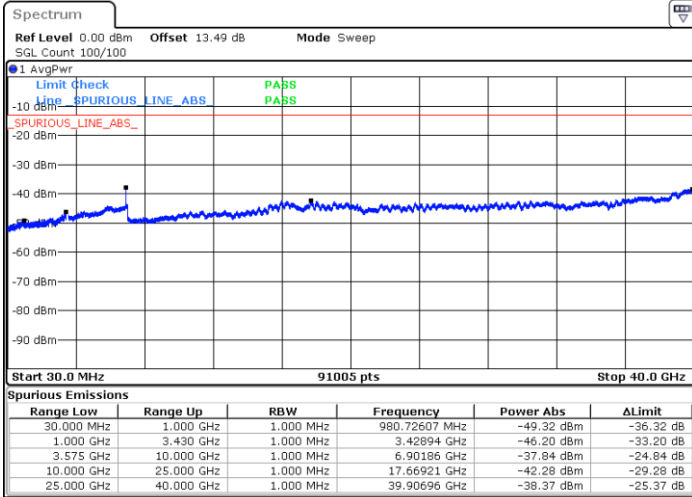


# Conducted Spurious Emission

FR1 n78 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

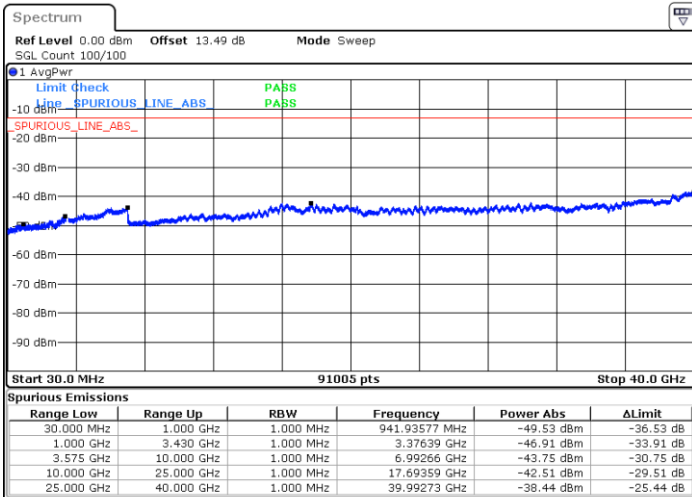
Middle Channel / 1RB1



Date: 14.MAR.2022 21:18:54

Date: 14.MAR.2022 21:20:30

Highest Channel / 1RB1



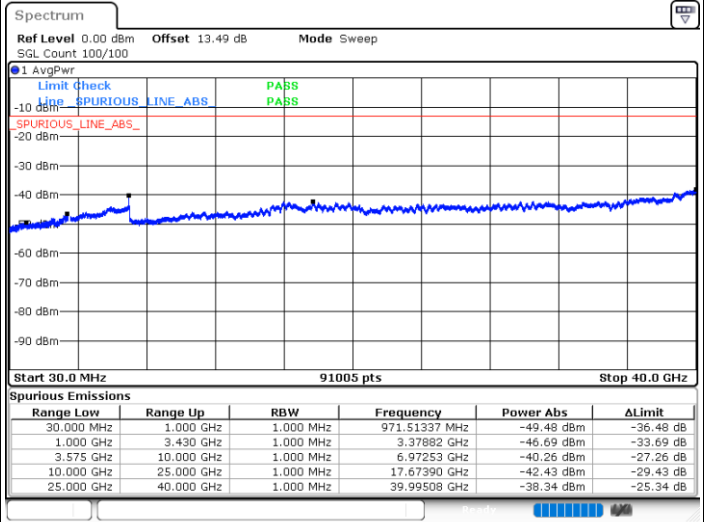
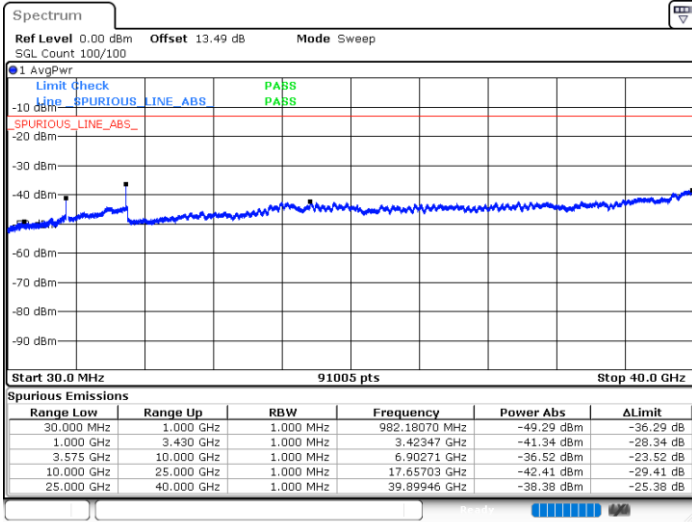
Date: 14.MAR.2022 21:24:18



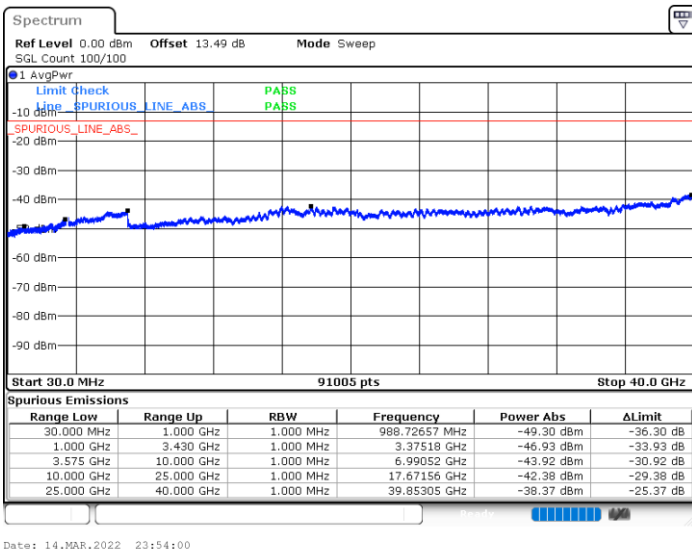
FR1 n78 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1

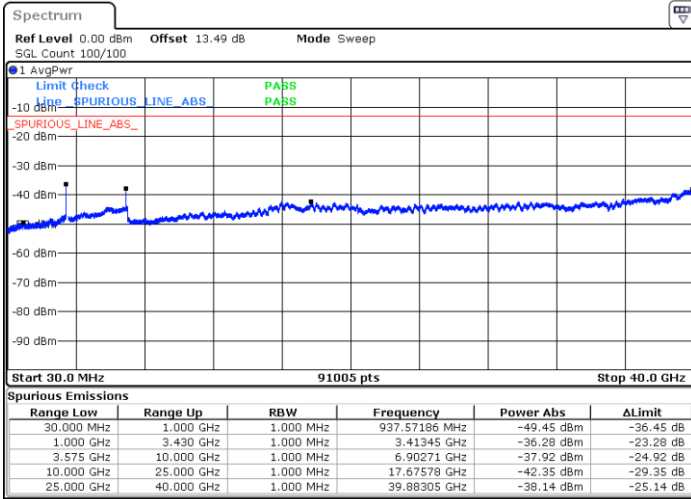




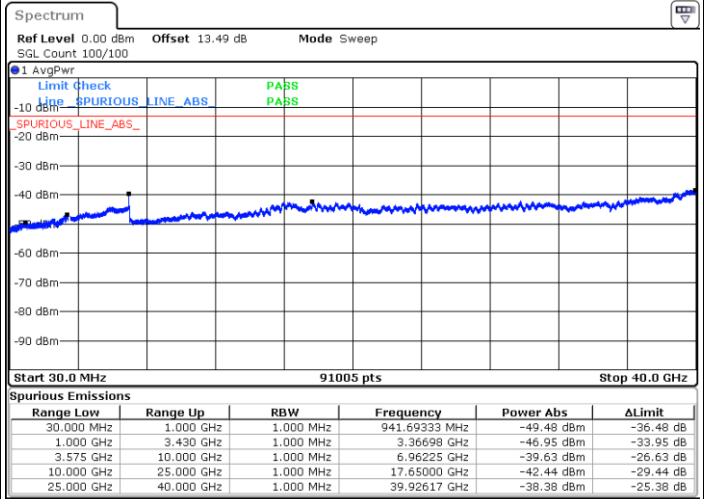
FR1 n78 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

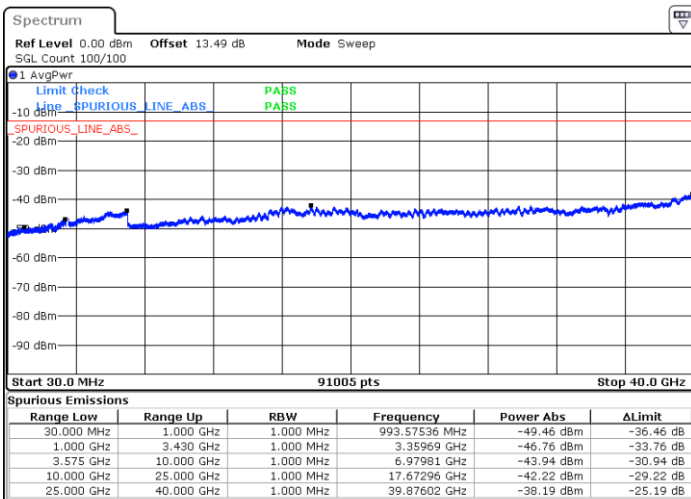


Date: 15.MAR.2022 01:46:33



Date: 15.MAR.2022 01:48:13

Highest Channel / 1RB1



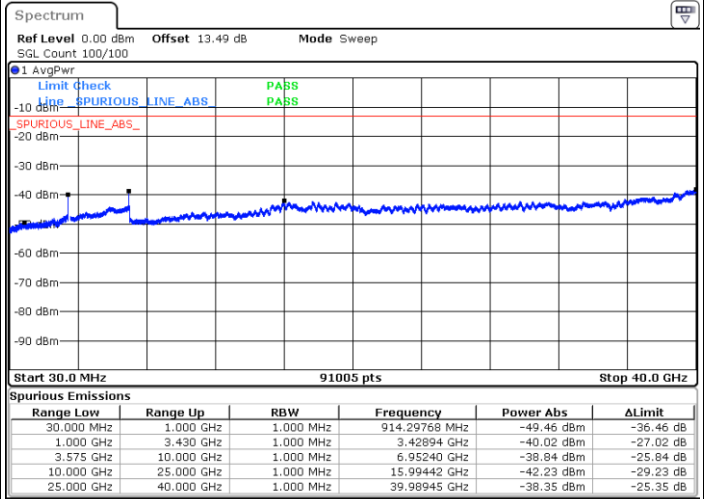
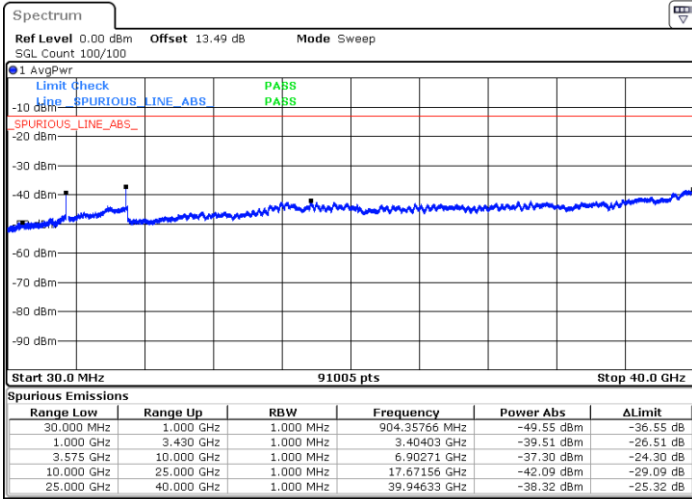
Date: 15.MAR.2022 01:49:40



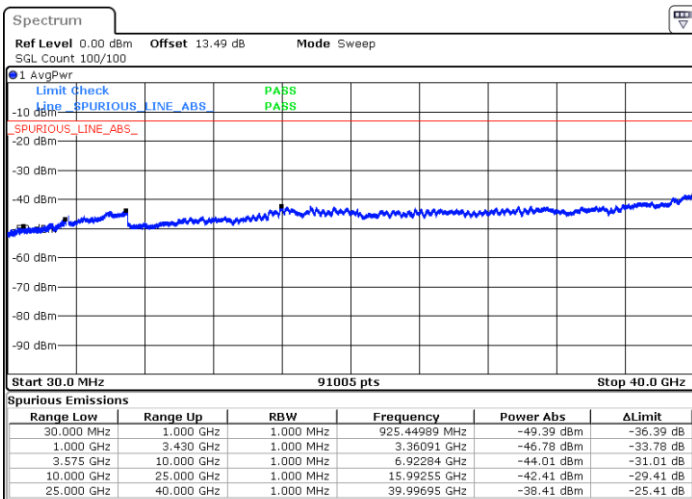
FR1 n78 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1



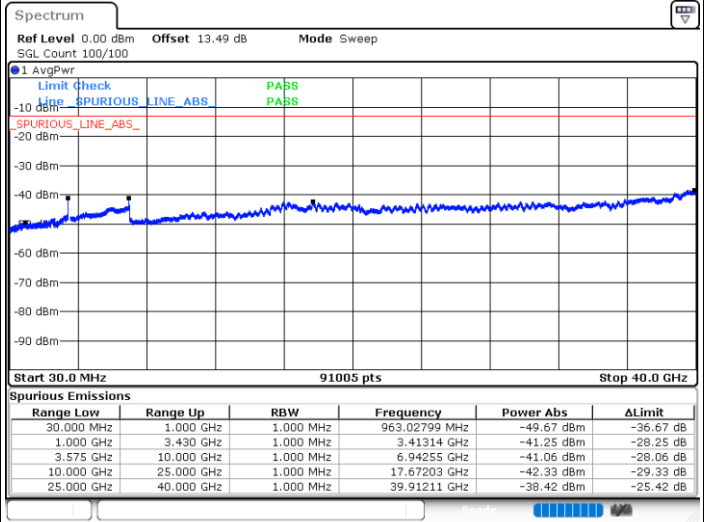
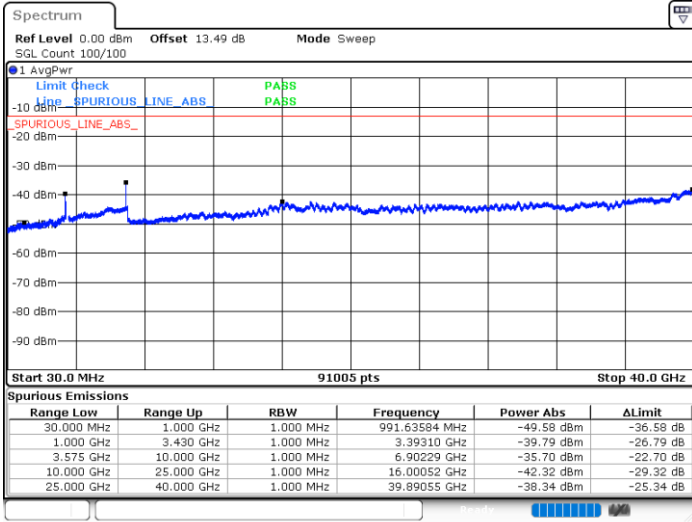




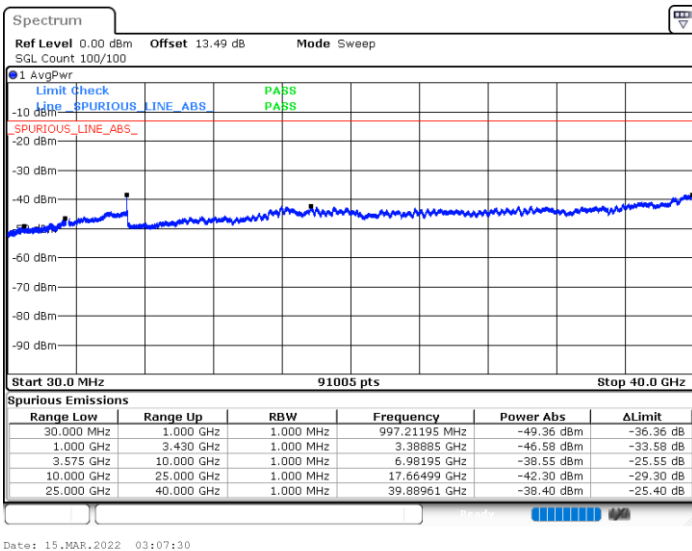
FR1 n78 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1

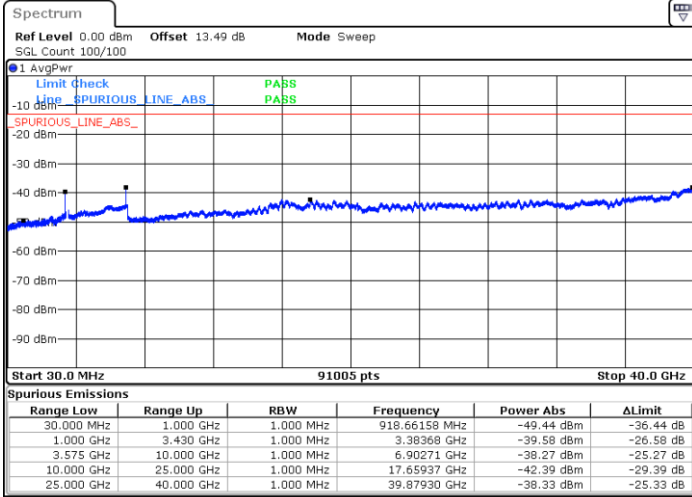




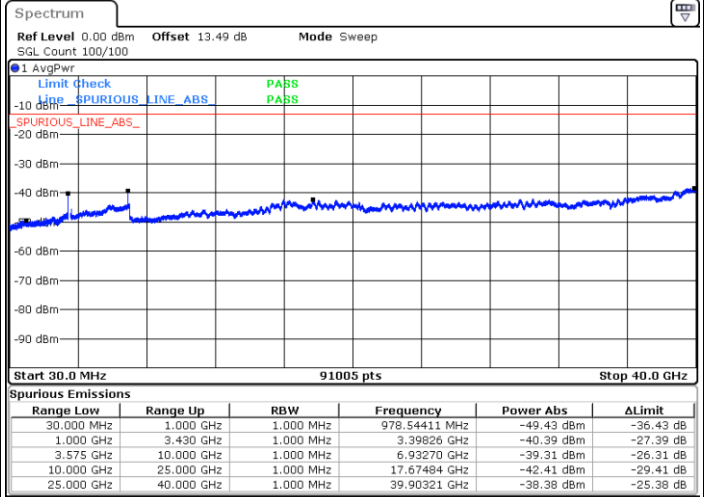
FR1 n78 / 70MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

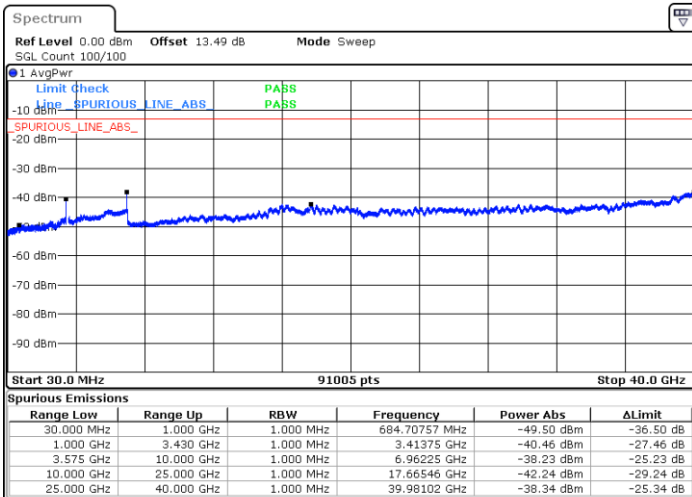


Date: 15.MAR.2022 03:36:54



Date: 15.MAR.2022 03:38:35

Highest Channel / 1RB1



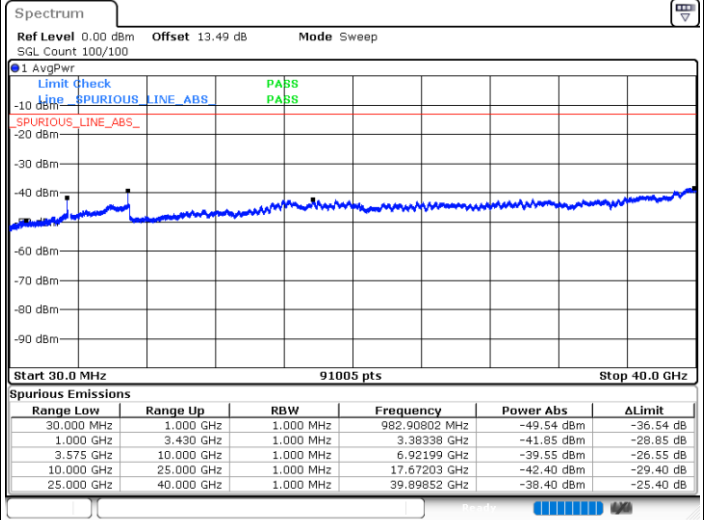
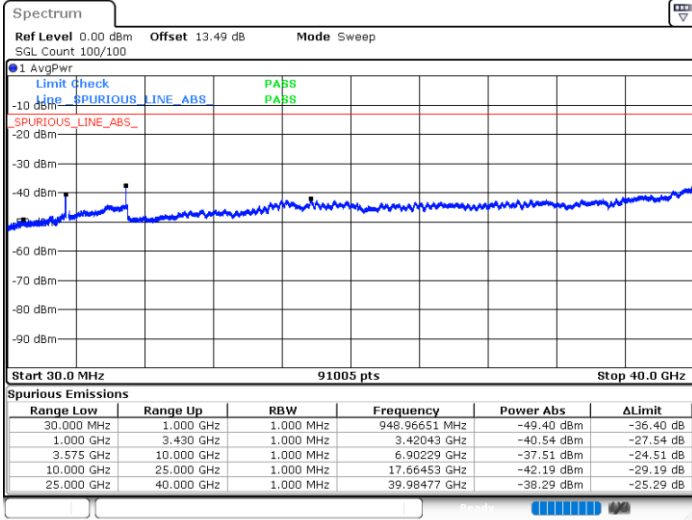
Date: 15.MAR.2022 03:42:03



FR1 n78 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

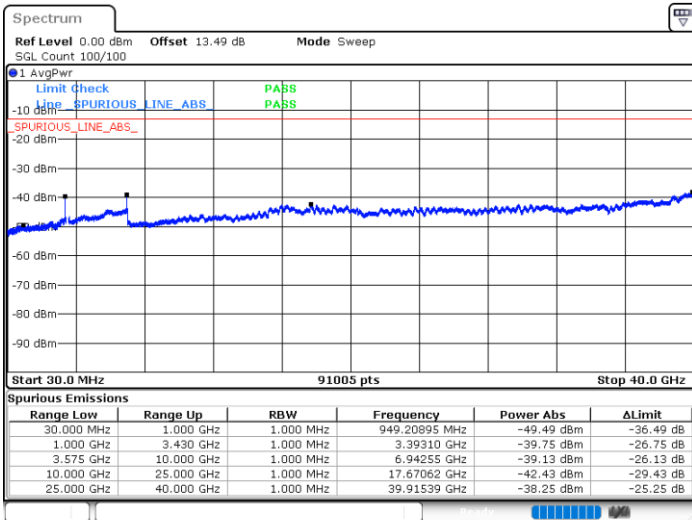
Middle Channel / 1RB1



Date: 15.MAR.2022 04:33:59

Date: 15.MAR.2022 04:36:28

Highest Channel / 1RB1



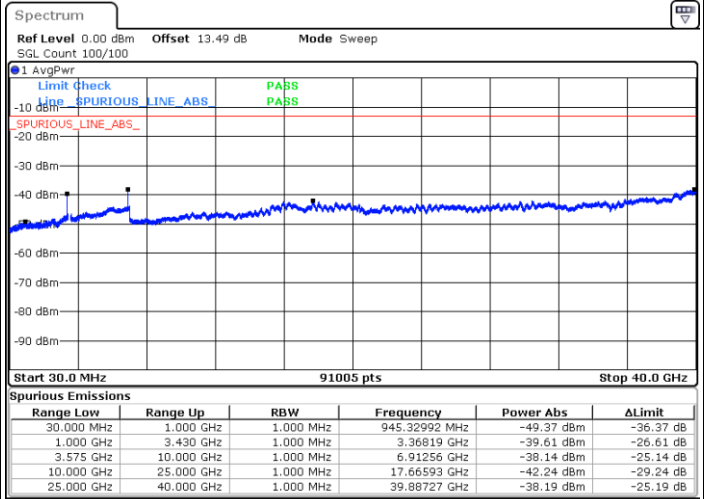
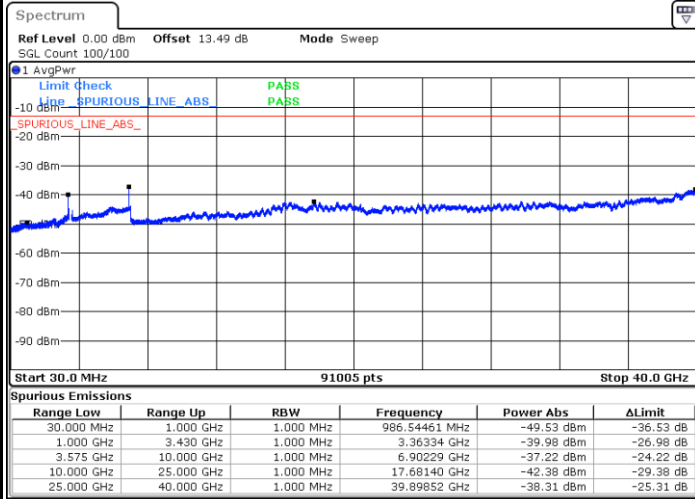
Date: 15.MAR.2022 04:38:51



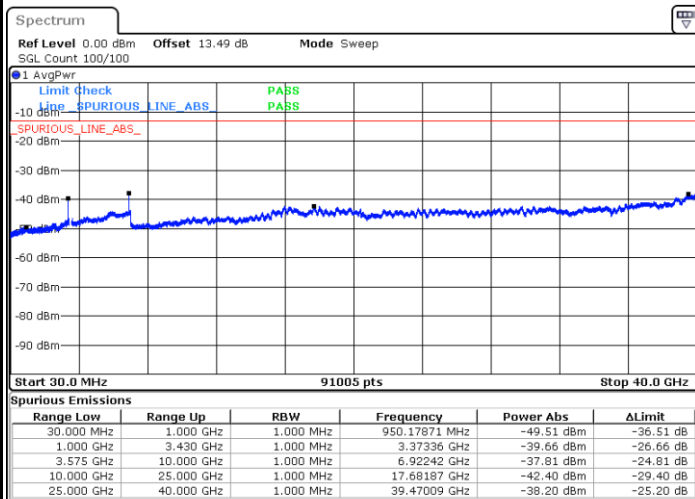
FR1 n78 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



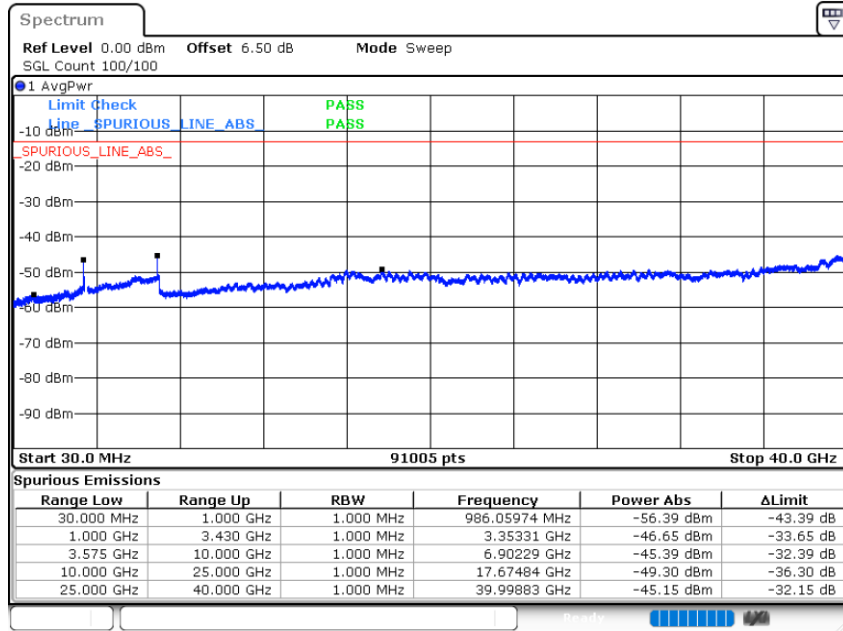
Highest Channel / 1RB1





FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Middle Channel / 1RB1



Date: 15.MAR.2022 08:18:52

## Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0031	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations for EN-DC mode, we choose the worst combination to test.

EN-DC_41A_n77A / LTE 20MHz + NR 100MHz / QPSK / ANT4(LTE) & ANT5(NR)								
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	6900	-59.45	-13	-46.45	-69.93	2.76	13.24	H
	10356	-51.98	-13	-38.98	-61.57	3.42	13.01	H
	13824	-60.60	-13	-47.60	-70.21	3.83	13.44	H
	6900	-57.41	-13	-44.41	-67.85	2.80	13.24	V
	10356	-54.41	-13	-41.41	-63.96	3.46	13.01	V
	13824	-60.90	-13	-47.90	-70.46	3.88	13.44	V

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

SA n78 / NR 100MHz / QPSK / ANT5(NR)								
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	6900	-60.12	-13	-47.12	-70.60	2.76	13.24	H
	10356	-57.20	-13	-44.20	-66.79	3.42	13.01	H
	13824	-60.83	-13	-47.83	-70.44	3.83	13.44	H
	6900	-56.78	-13	-43.78	-67.22	2.80	13.24	V
	10356	-49.47	-13	-36.47	-59.02	3.46	13.01	V
	13824	-60.50	-13	-47.50	-70.06	3.88	13.44	V

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

EN-DC_7A_n78A / LTE 20MHz + NR 100MHz / QPSK / ANT4(LTE) & ANT5(NR)								
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	6900	-60.14	-13	-47.14	-70.62	2.76	13.24	H
	10356	-58.16	-13	-45.16	-67.75	3.42	13.01	H
	13824	-60.44	-13	-47.44	-70.05	3.83	13.44	H
	6900	-60.73	-13	-47.73	-71.17	2.80	13.24	V
	10356	-61.76	-13	-48.76	-71.31	3.46	13.01	V
	13824	-60.84	-13	-47.84	-70.40	3.88	13.44	V

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