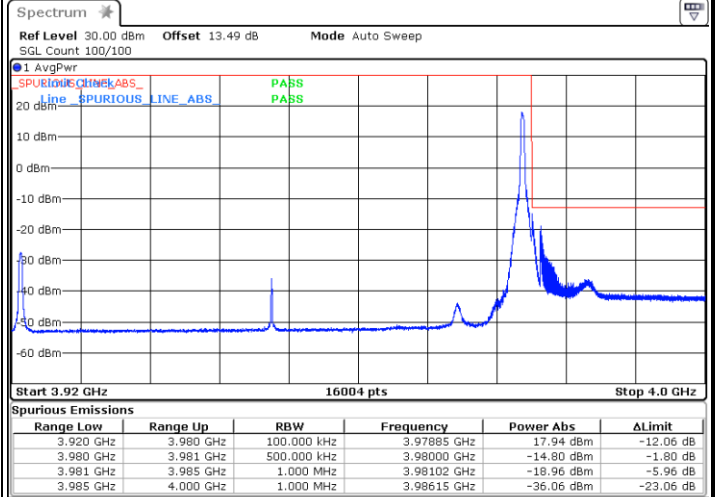
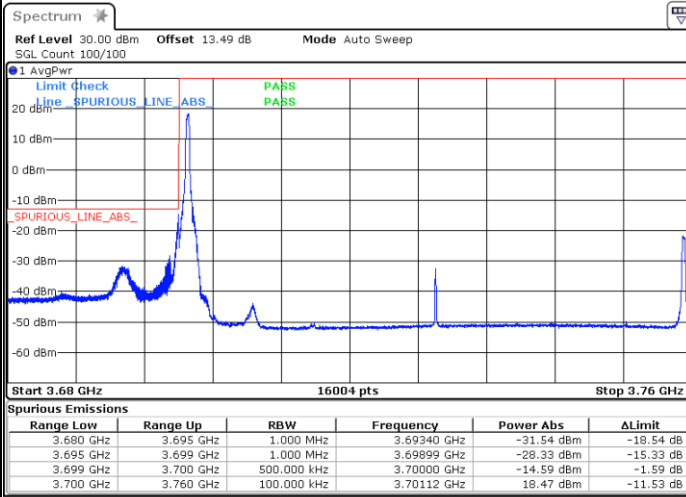




FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

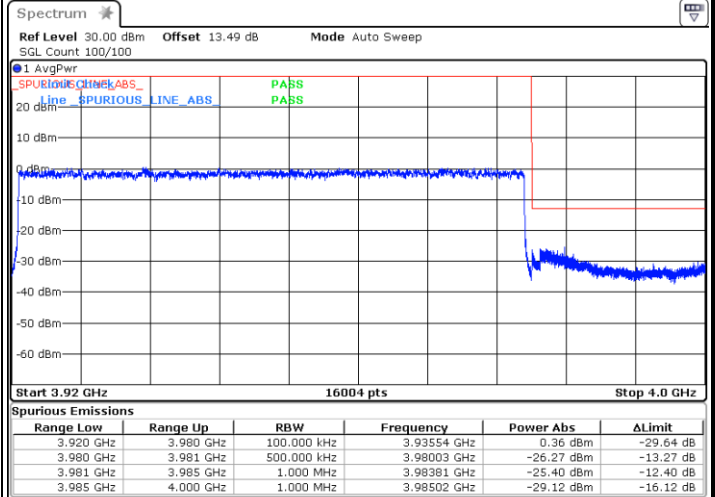
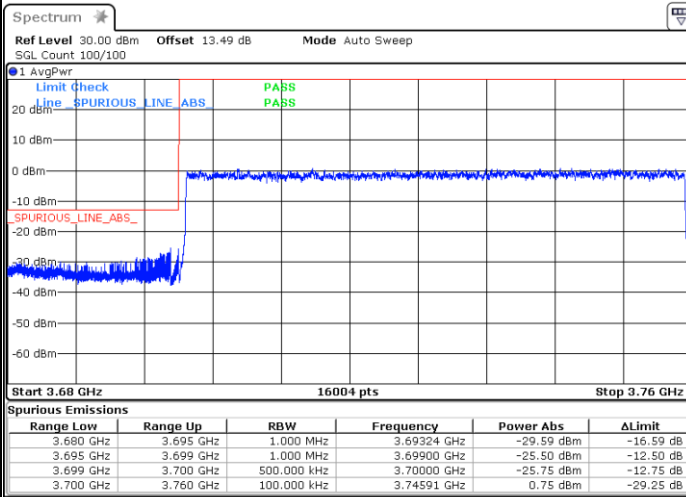


Date: 14. JUN. 2022 22:16:29

Date: 14. JUN. 2022 22:47:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14. JUN. 2022 22:37:13

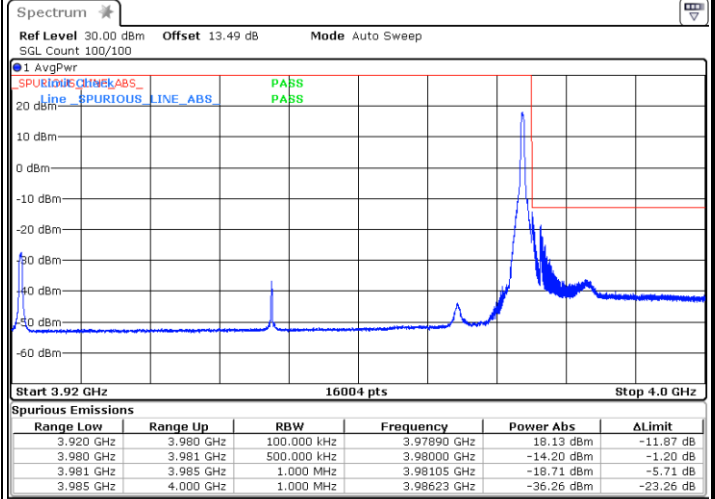
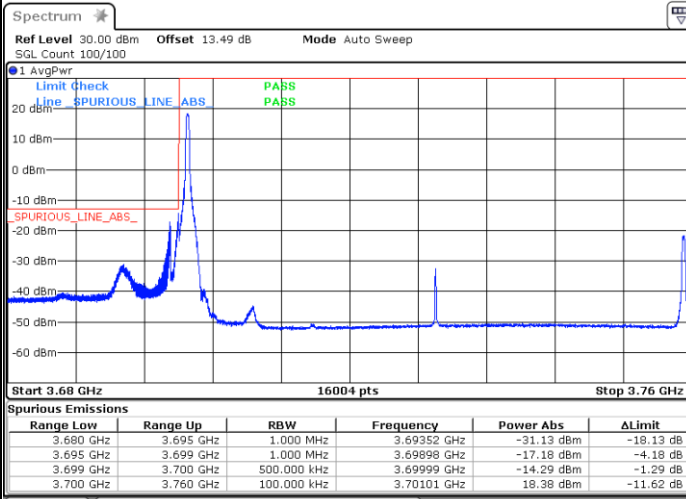
Date: 14. JUN. 2022 22:42:00



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

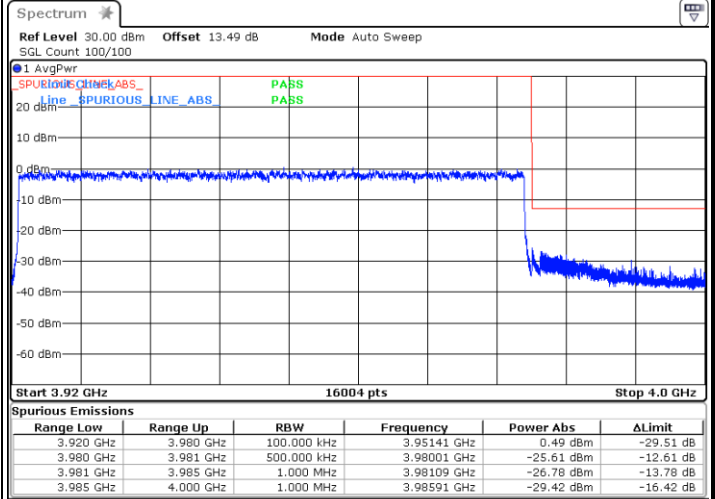
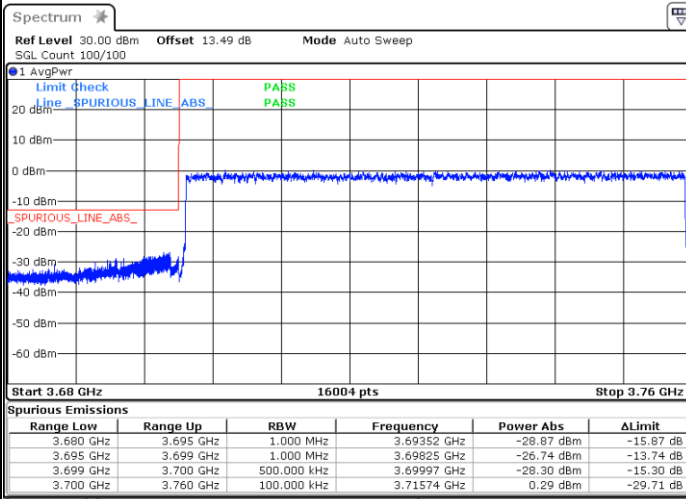


Date: 14. JUN. 2022 22:19:02

Date: 14. JUN. 2022 22:45:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14. JUN. 2022 22:39:01

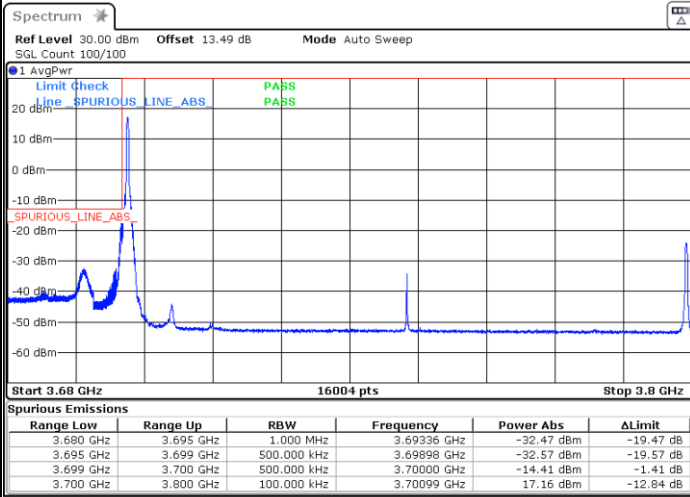
Date: 14. JUN. 2022 22:41:15



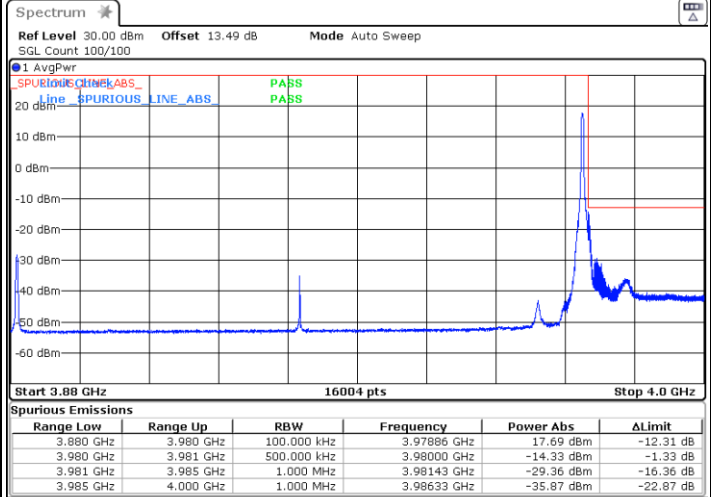
FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



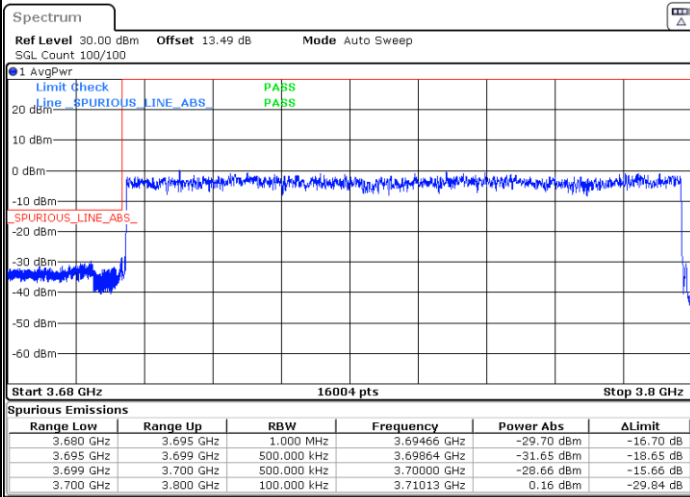
Date: 12. JUN. 2022 04:21:54



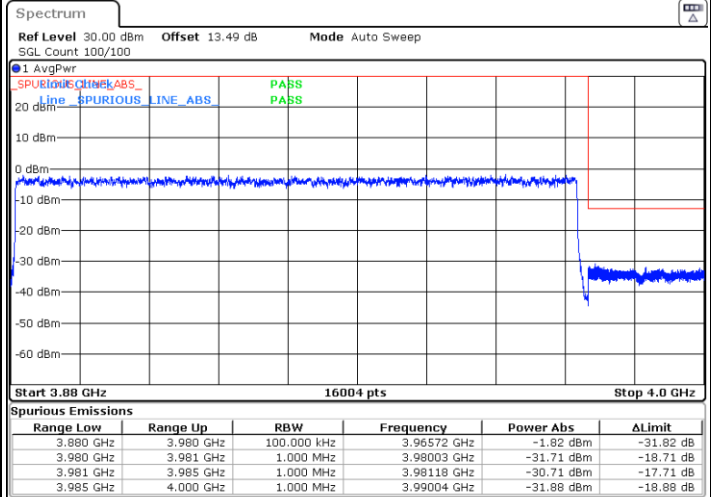
Date: 12. JUN. 2022 04:48:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12. JUN. 2022 04:28:21



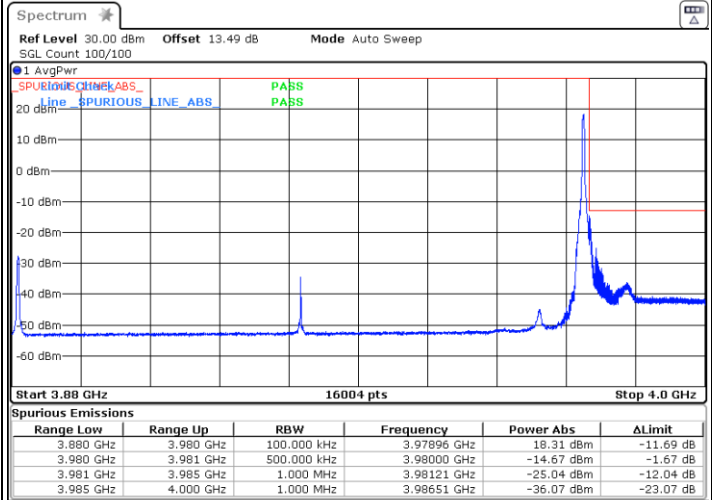
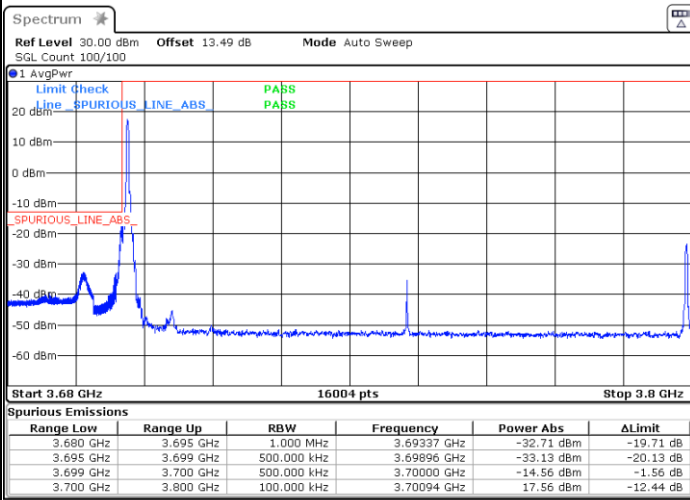
Date: 12. JUN. 2022 04:54:26



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

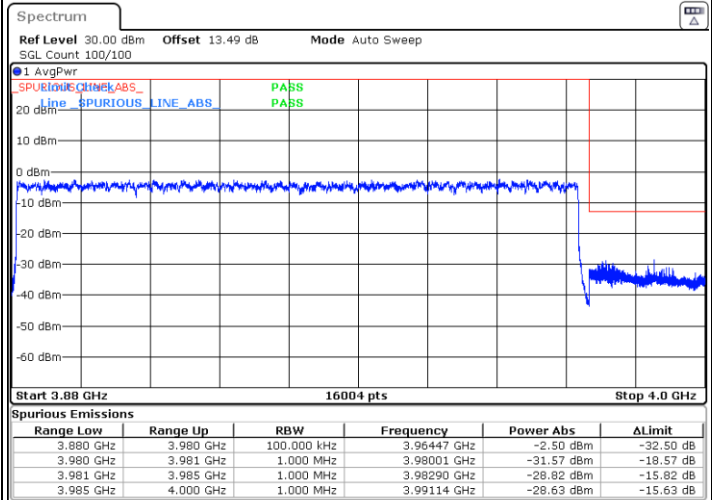
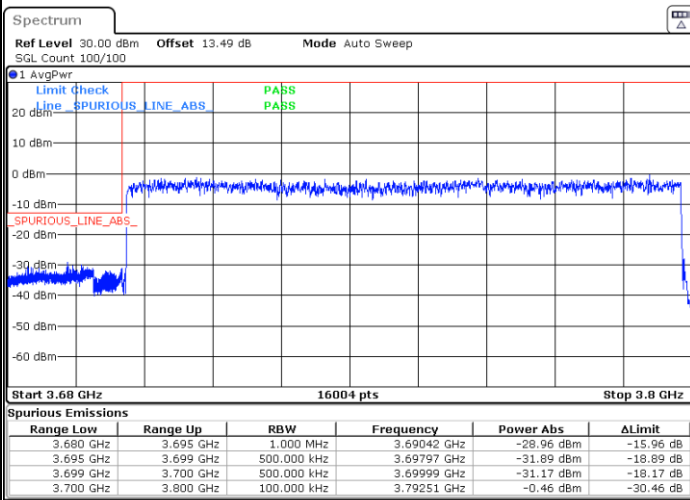


Date: 12. JUN. 2022 04:25:52

Date: 12. JUN. 2022 04:52:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12. JUN. 2022 04:27:38

Date: 12. JUN. 2022 04:53:43

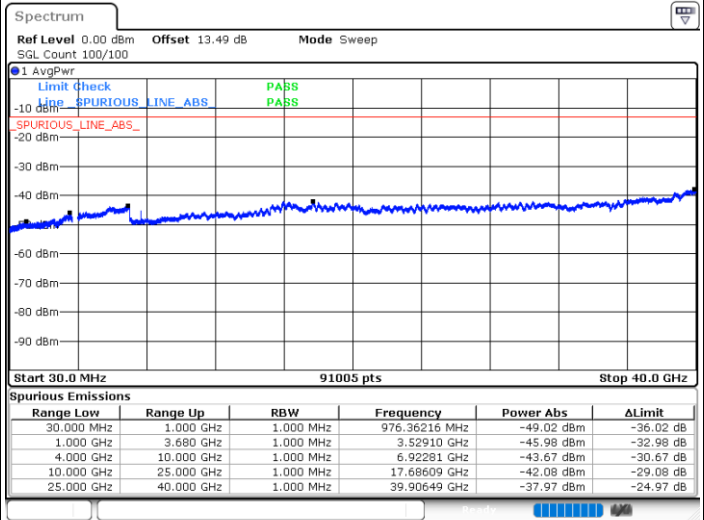
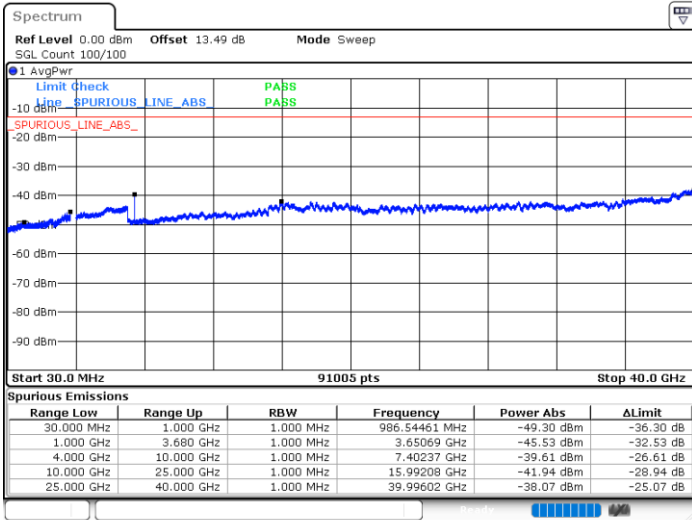


# Conducted Spurious Emission

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

Lowest Channel / 1RB1

Middle Channel / 1RB1

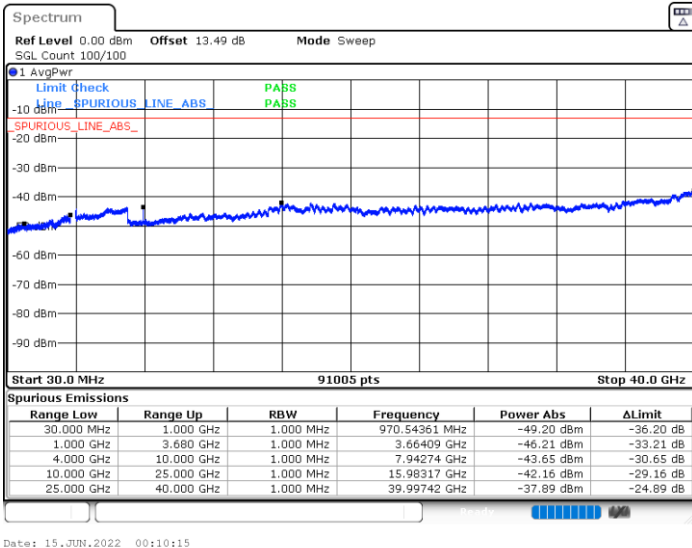


Date: 14.JUN.2022 23:36:23

Date: 14.JUN.2022 23:34:24

Highest Channel / 1RB1

N/A



Date: 15.JUN.2022 00:10:15

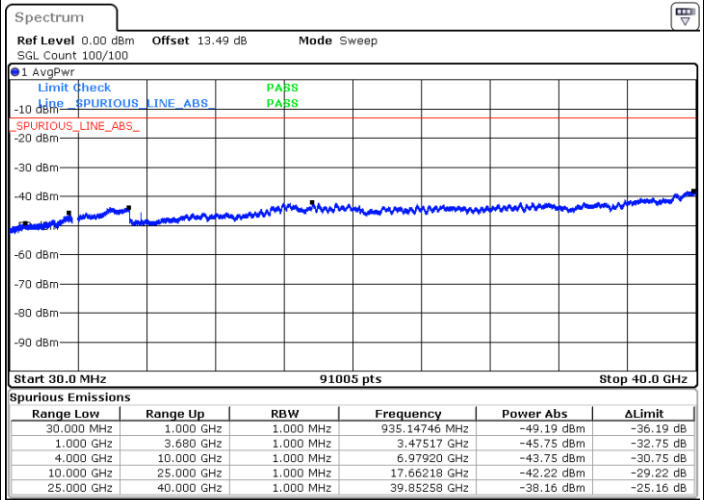
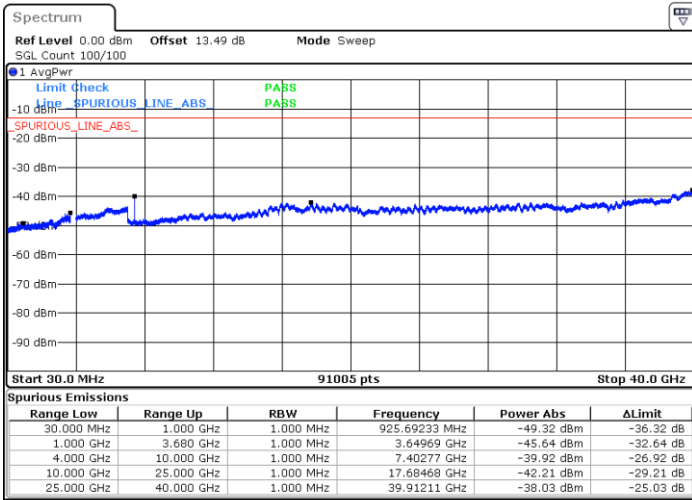
N/A



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

Lowest Channel / 1RB1

Middle Channel / 1RB1

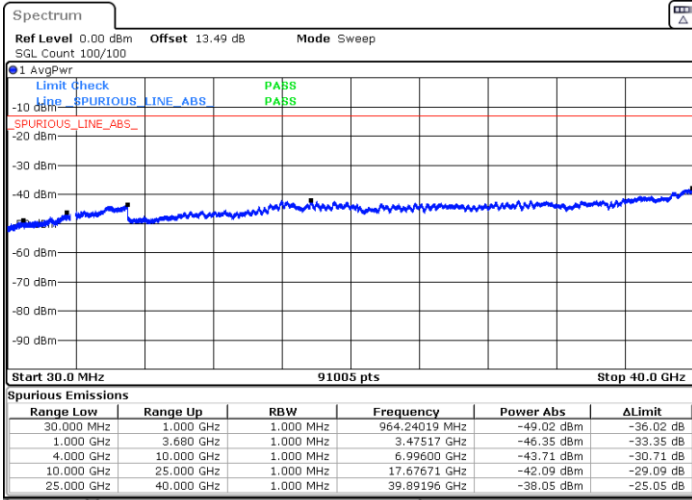


Date: 14. JUN. 2022 23:37:42

Date: 14. JUN. 2022 23:32:23

Highest Channel / 1RB1

N/A



N/A

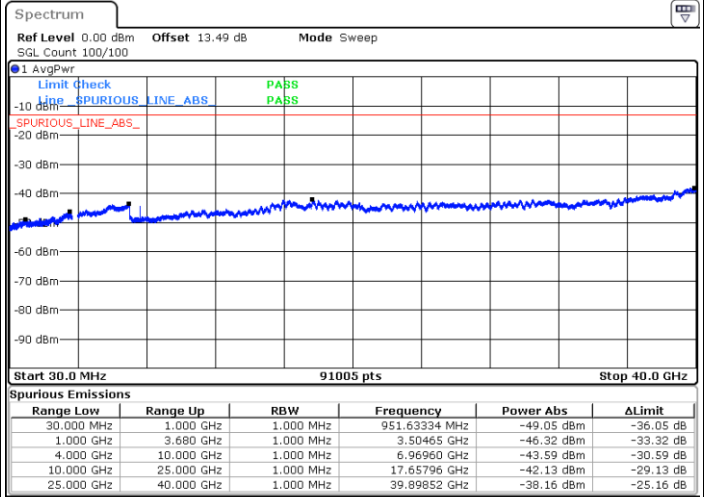
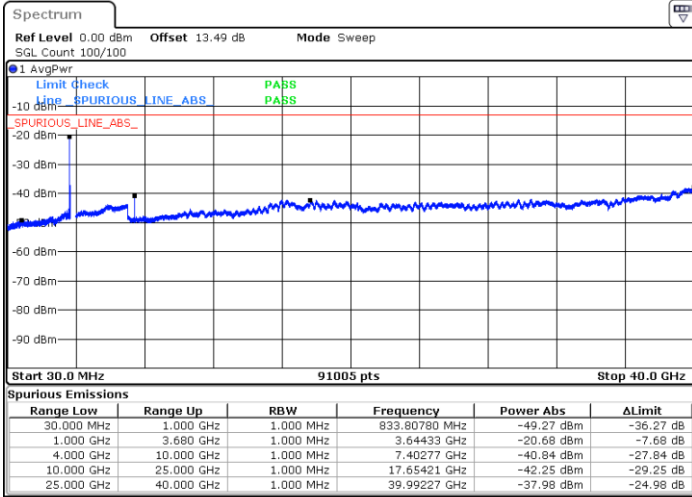
Date: 15. JUN. 2022 00:01:51



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

Lowest Channel / 1RB1

Middle Channel / 1RB1

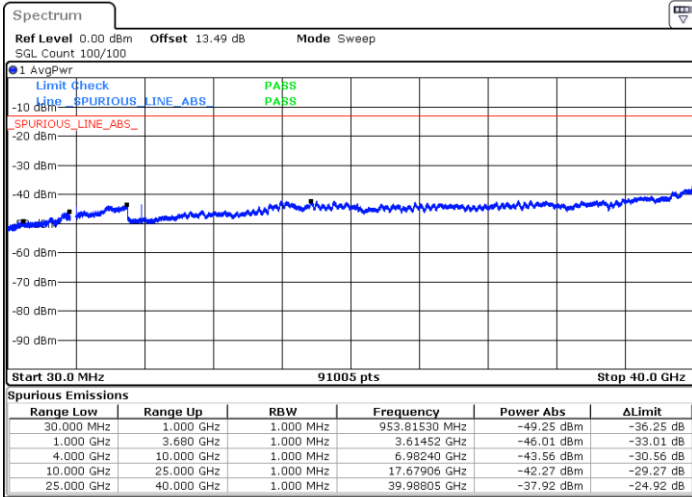


Date: 14. JUN. 2022 22:22:14

Date: 14. JUN. 2022 22:23:40

Highest Channel / 1RB1

N/A



Date: 14. JUN. 2022 22:43:20

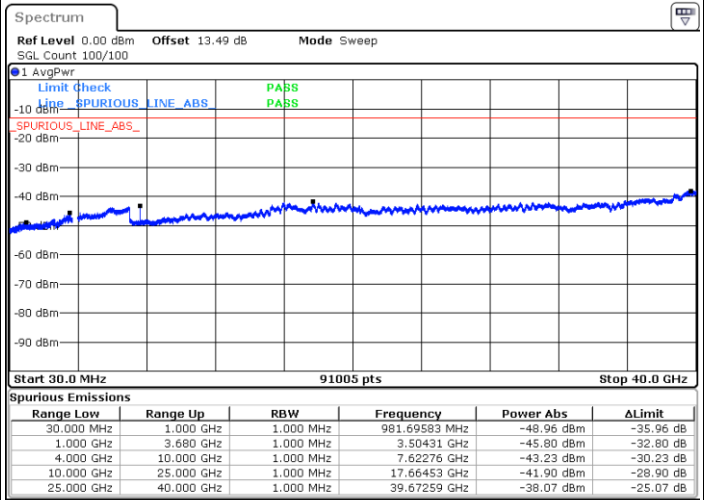
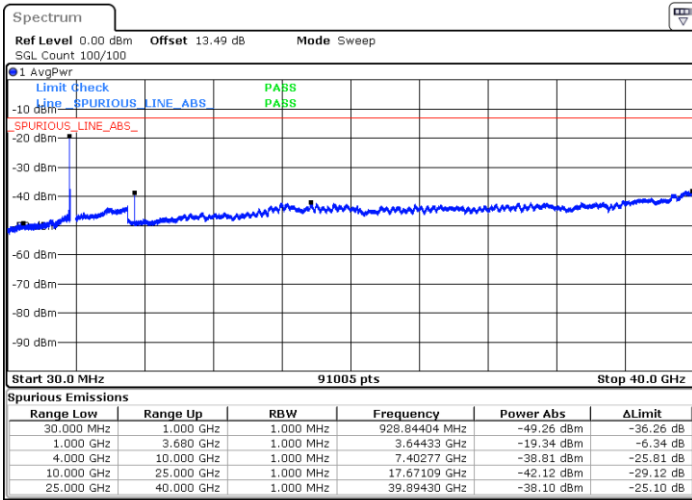
N/A



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

Lowest Channel / 1RB1

Middle Channel / 1RB1

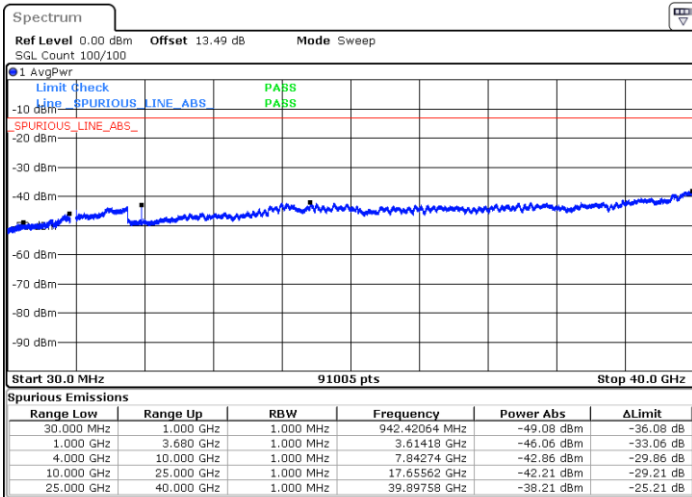


Date: 14. JUN. 2022 22:20:22

Date: 14. JUN. 2022 22:25:22

Highest Channel / 1RB1

N/A



Date: 14. JUN. 2022 22:44:43

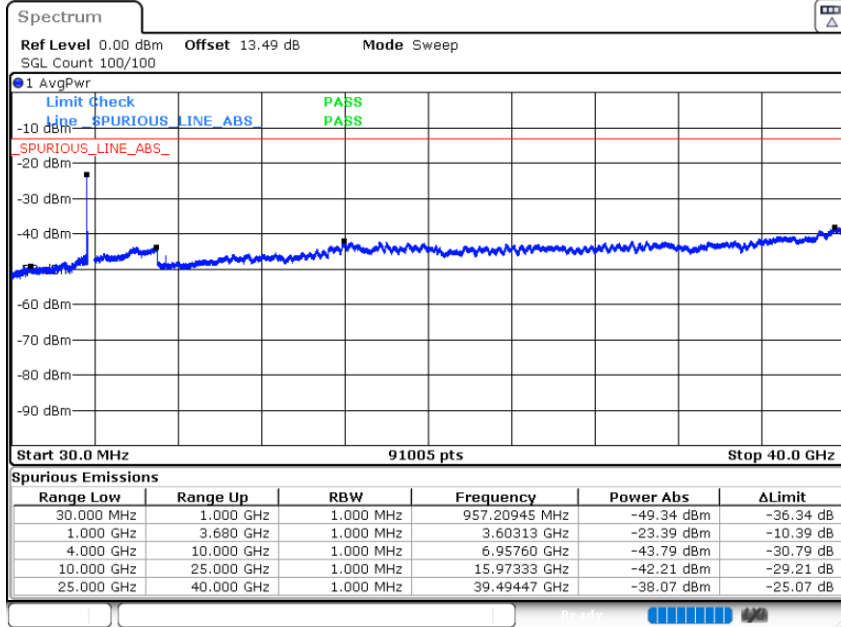
N/A





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

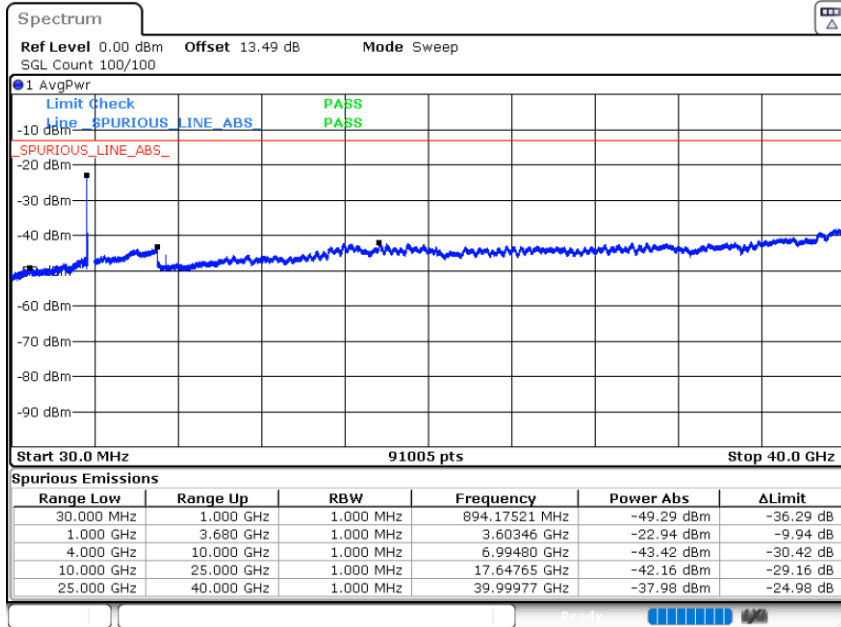
Middle Channel / 1RB1



Date: 12.JUN.2022 04:38:49

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

Middle Channel / 1RB1



Date: 12.JUN.2022 04:36:42



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0053	PASS
40	Normal Voltage	0.0067	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: 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 :	23~25°C
		Relative Humidity :	41~42%

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

SA n77 / NR 100MHz / QPSK / ANT4(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	7584	-56.14	-13	-43.14	-66.58	2.80	13.24	H
	11376	-54.56	-13	-41.56	-64.11	3.46	13.01	H
	15168	-57.05	-13	-44.05	-66.61	3.88	13.44	H
	7584	-59.08	-13	-46.08	-69.52	2.80	13.24	V
	11376	-54.97	-13	-41.97	-64.52	3.46	13.01	V
	15168	-52.82	-13	-39.82	-62.38	3.88	13.44	V

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

EN-DC_41A_n77A / LTE 20MHz + NR 100MHz / QPSK / default ANT (LTE) & ANT7(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	7584	-60.46	-13	-47.46	-70.90	2.80	13.24	H
	11376	-54.92	-13	-41.92	-64.47	3.46	13.01	H
	15180	-57.54	-13	-44.54	-67.10	3.88	13.44	H
	7584	-60.14	-13	-47.14	-70.58	2.80	13.24	V
	11376	-56.09	-13	-43.09	-65.64	3.46	13.01	V
	15180	-57.63	-13	-44.63	-67.19	3.88	13.44	V

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



SA n78 / NR 100MHz / QPSK / ANT7(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	7404	-54.44	-13	-41.44	-64.88	2.80	13.24	H
	11106	-45.49	-13	-32.49	-55.04	3.46	13.01	H
	14808	-52.29	-13	-39.29	-61.85	3.88	13.44	H
	7404	-60.48	-13	-47.48	-70.92	2.80	13.24	V
	11106	-47.52	-13	-34.52	-57.07	3.46	13.01	V
	14808	-47.73	-13	-34.73	-57.29	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 / default ANT (LTE) & ANT7(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	7410	-63.25	-13	-50.25	-73.69	2.80	13.24	H
	11112	-60.05	-13	-47.05	-69.60	3.46	13.01	H
	14820	-58.29	-13	-45.29	-67.85	3.88	13.44	H
	7410	-62.79	-13	-49.79	-73.23	2.80	13.24	V
	11112	-59.98	-13	-46.98	-69.53	3.46	13.01	V
	14820	-57.52	-13	-44.52	-67.08	3.88	13.44	V

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