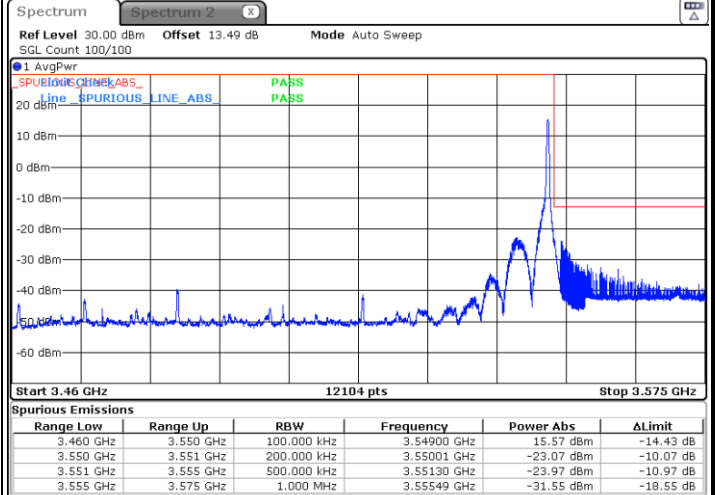
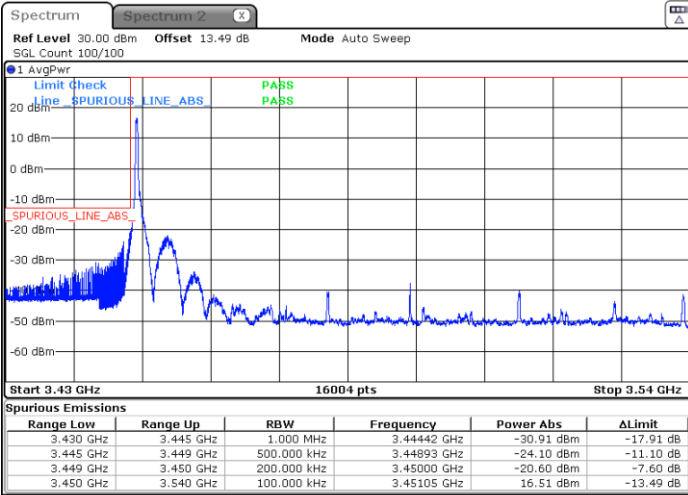




FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

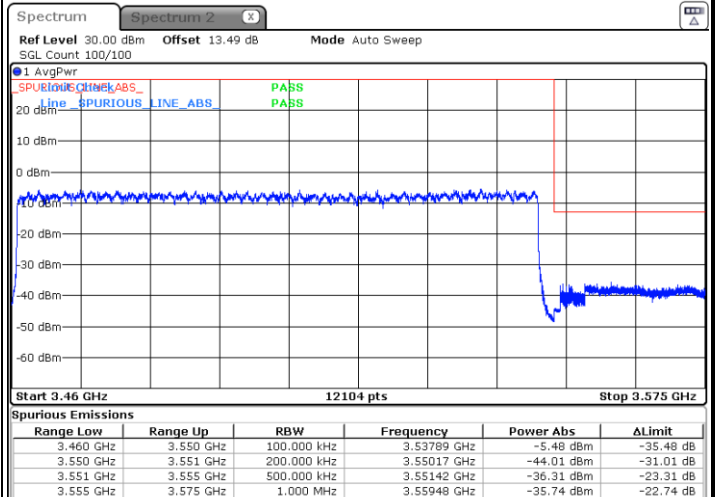
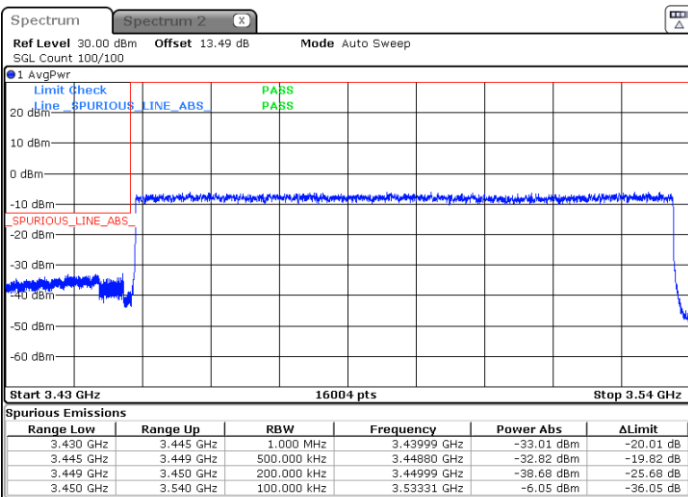


Date: 16.FEB.2022 10:56:44

Date: 16.FEB.2022 12:33:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 11:07:09

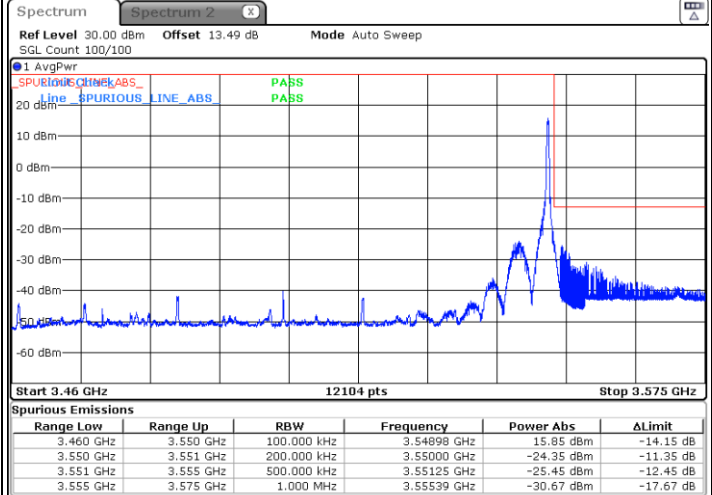
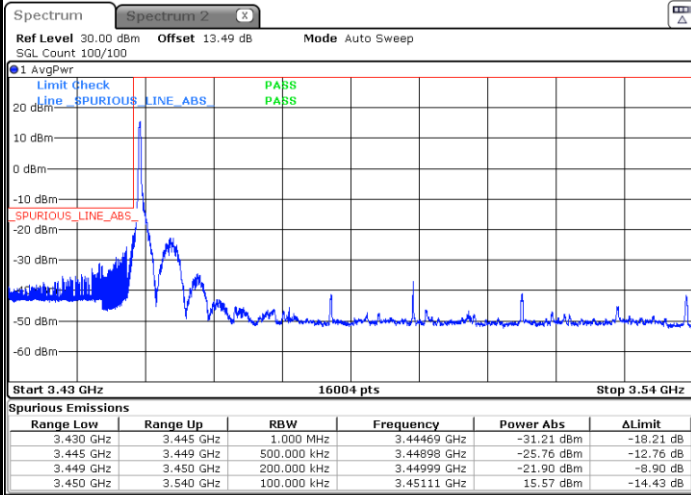
Date: 16.FEB.2022 11:21:24



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

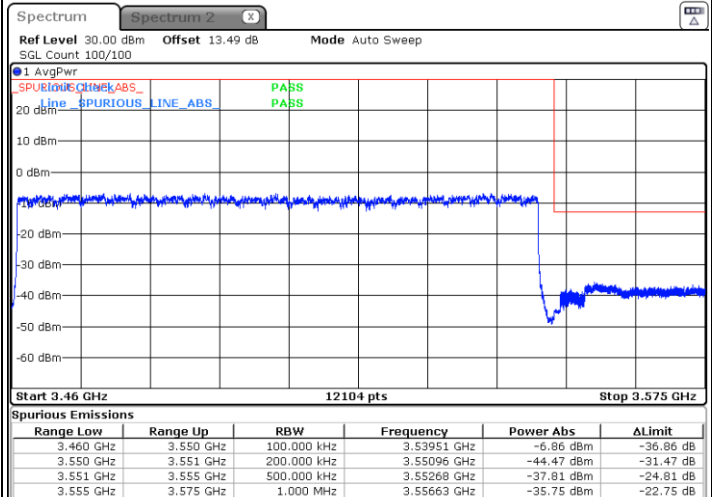
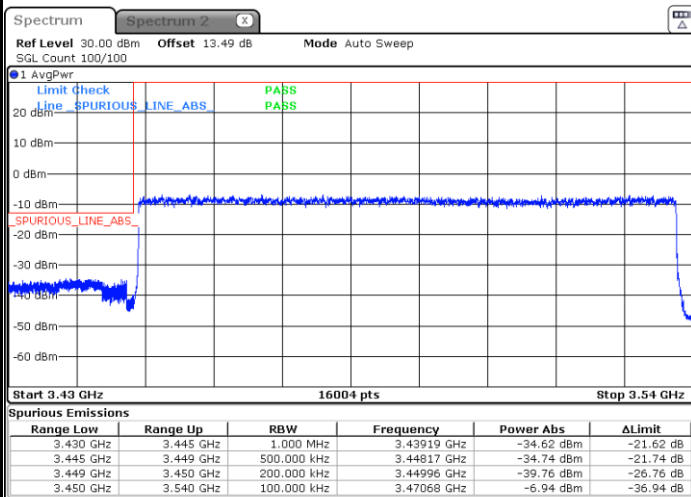


Date: 16.FEB.2022 10:59:12

Date: 16.FEB.2022 11:38:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 11:04:26

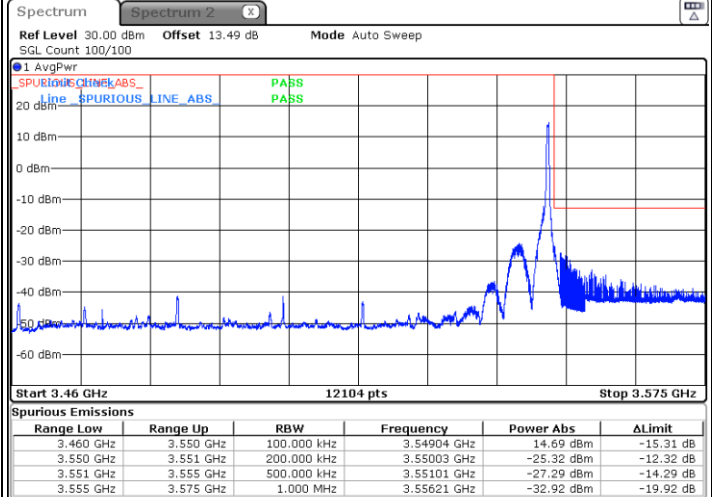
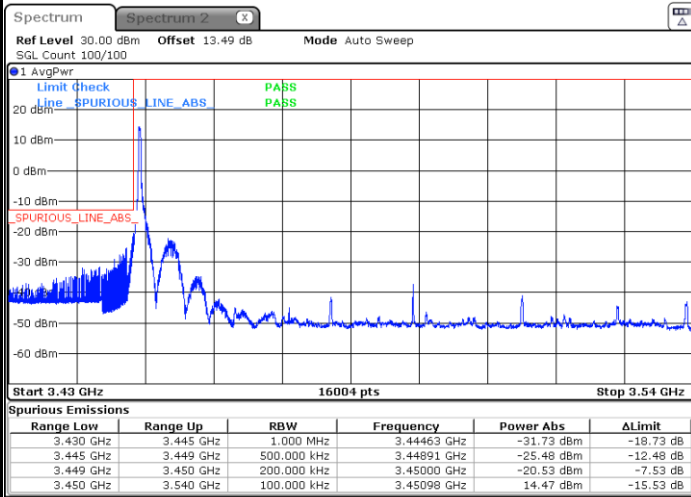
Date: 16.FEB.2022 11:22:08



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

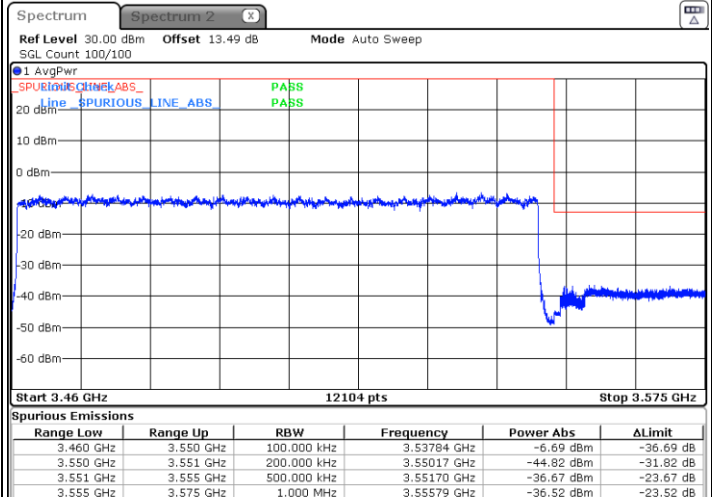
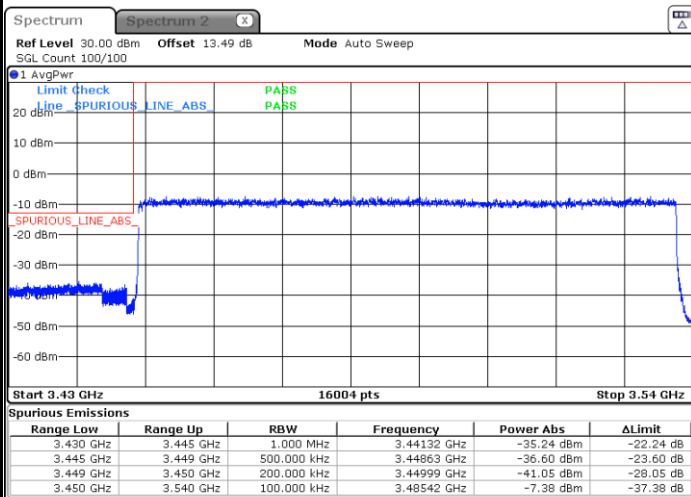


Date: 16.FEB.2022 11:00:30

Date: 16.FEB.2022 11:34:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 11:03:42

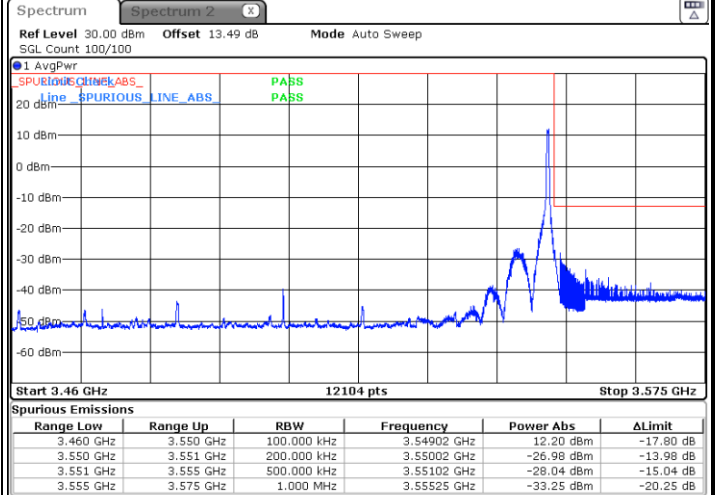
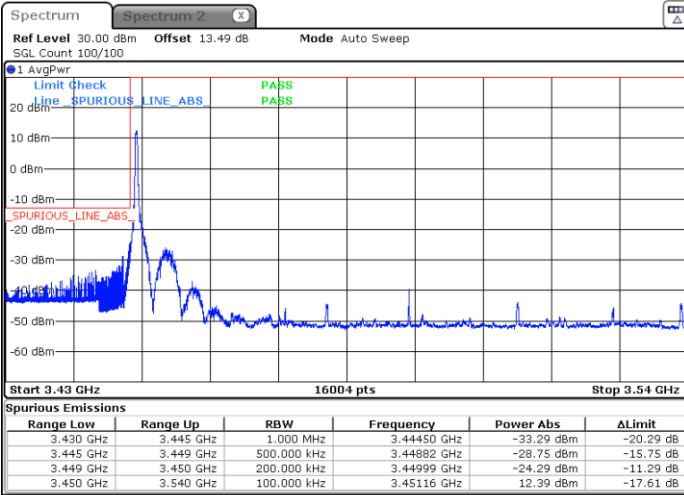
Date: 16.FEB.2022 11:22:50



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

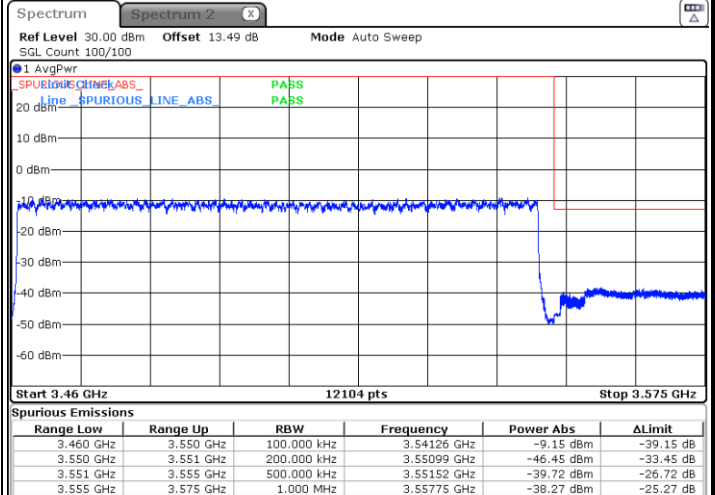
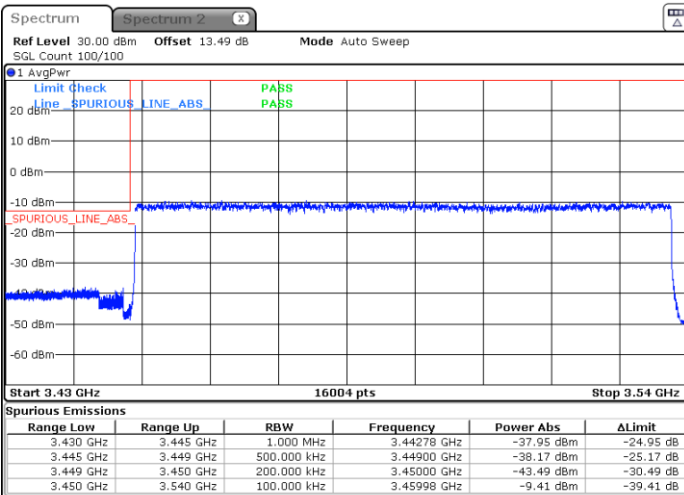


Date: 16.FEB.2022 11:01:21

Date: 16.FEB.2022 11:25:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 11:03:01

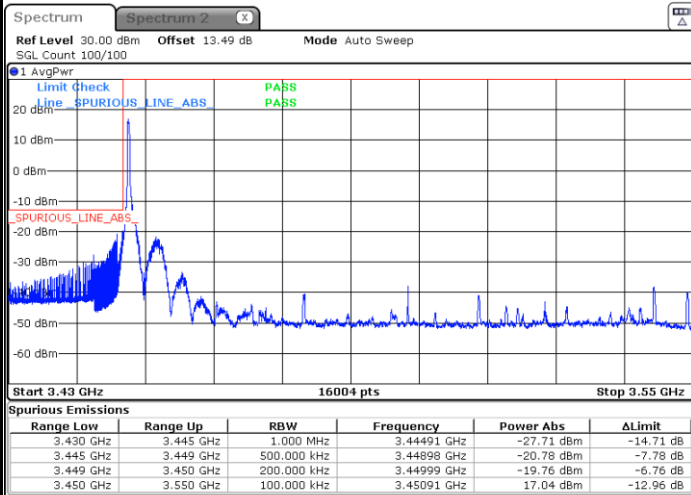
Date: 16.FEB.2022 11:23:36



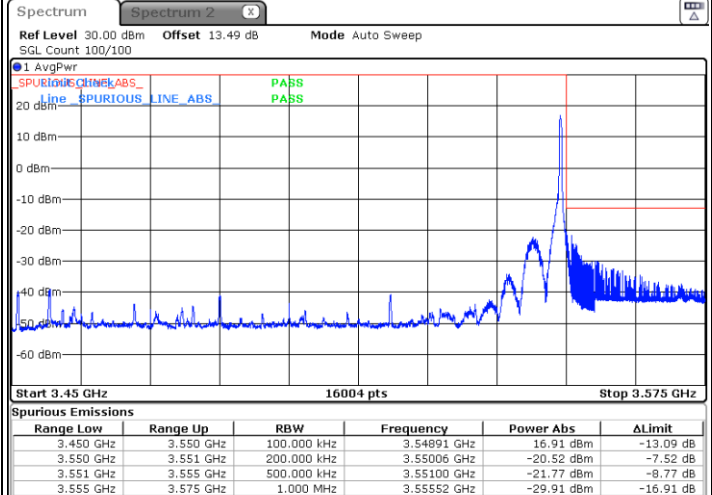
FR1 n77 / 100MHz / DFT-S OFDM / BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



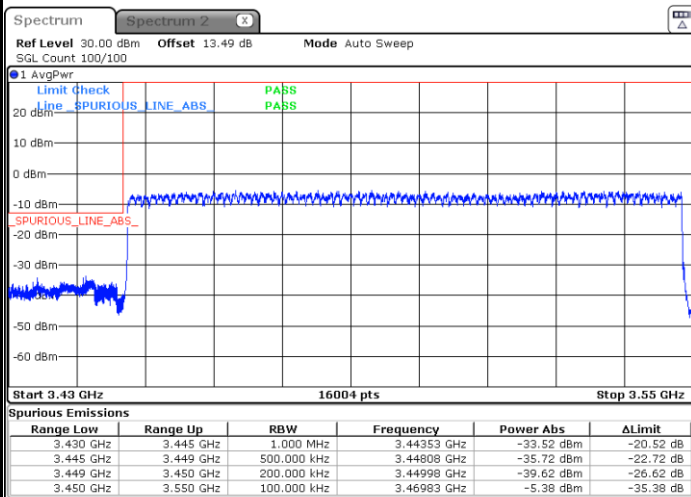
Date: 16.FEB.2022 10:22:28



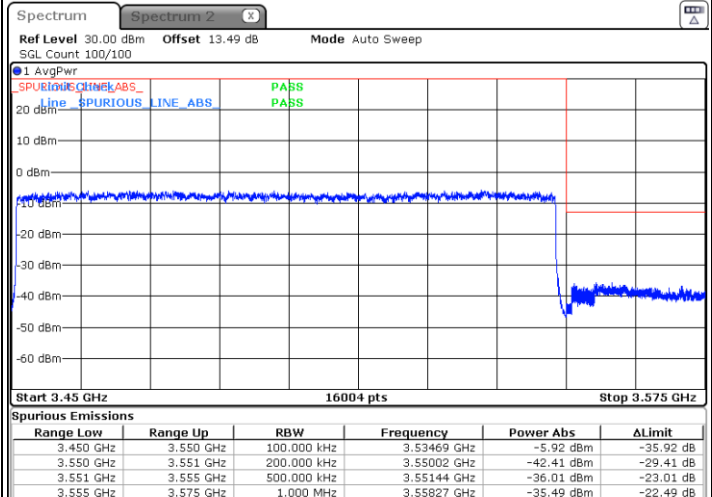
Date: 16.FEB.2022 10:40:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 10:30:52



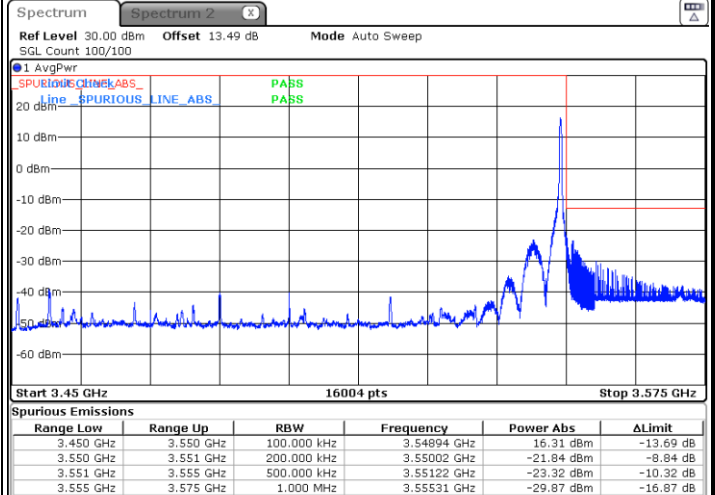
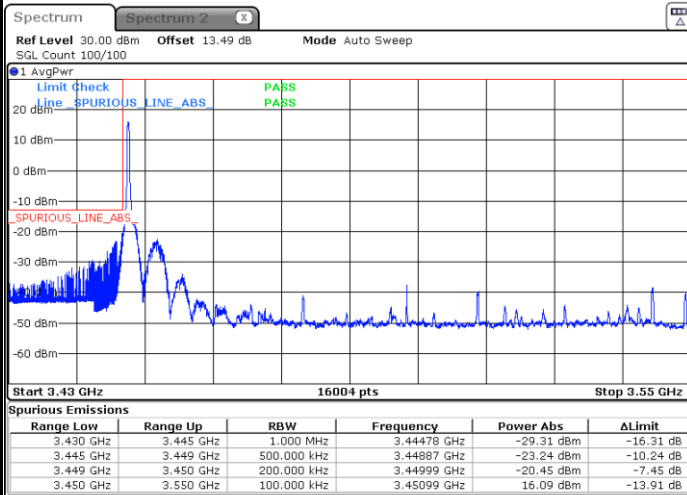
Date: 16.FEB.2022 10:31:36



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

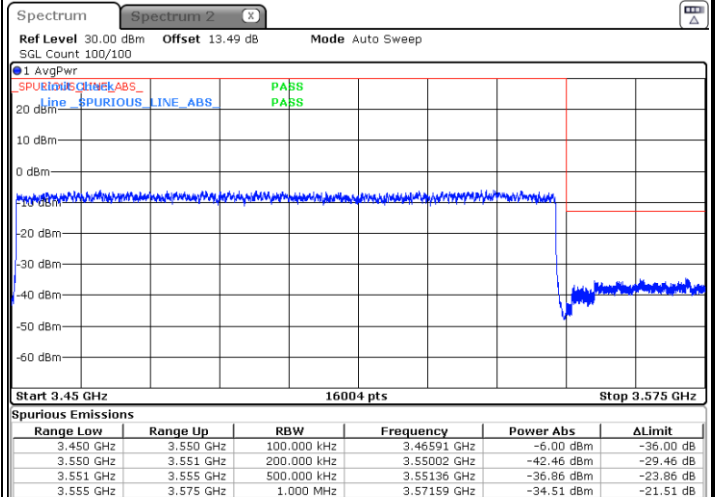
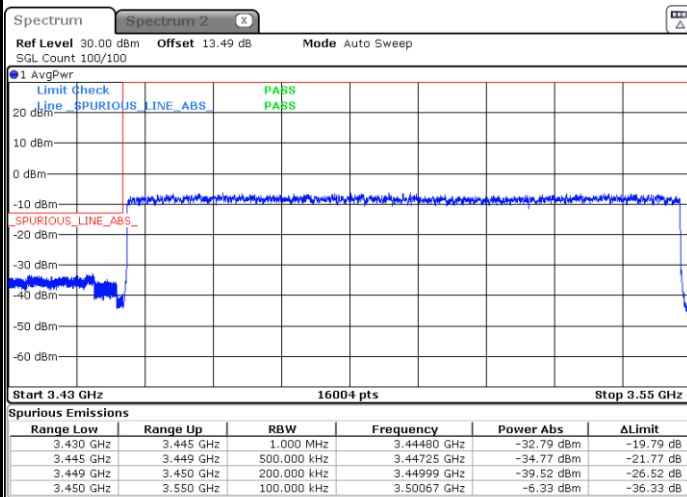


Date: 16.FEB.2022 10:24:16

Date: 16.FEB.2022 10:38:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 10:29:50

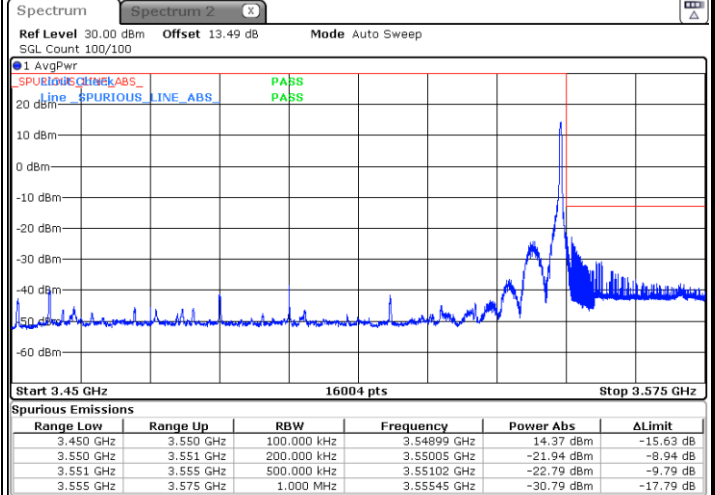
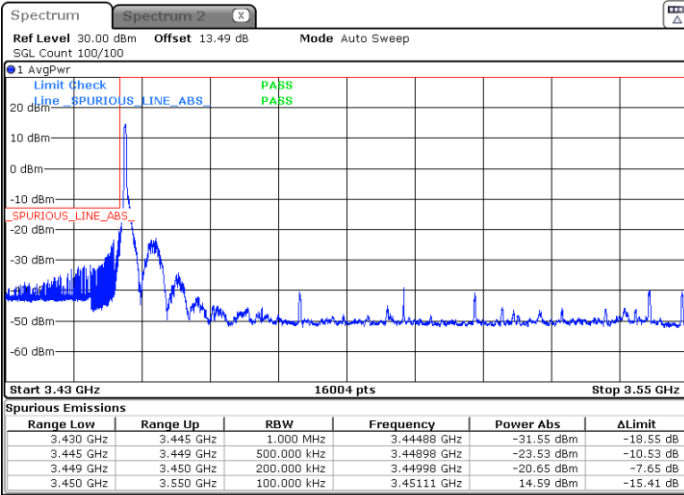
Date: 16.FEB.2022 10:32:13



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

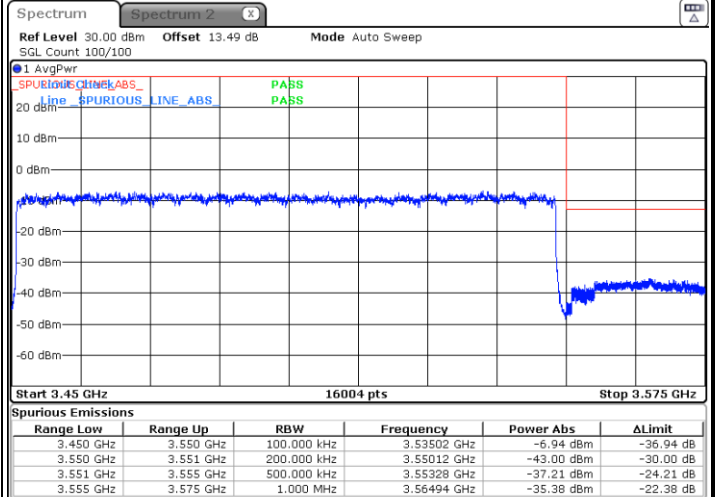
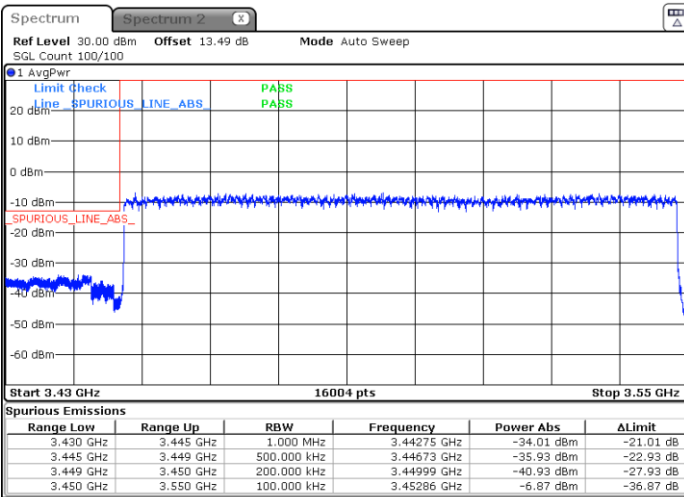


Date: 16.FEB.2022 10:25:01

Date: 16.FEB.2022 10:38:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 10:29:06

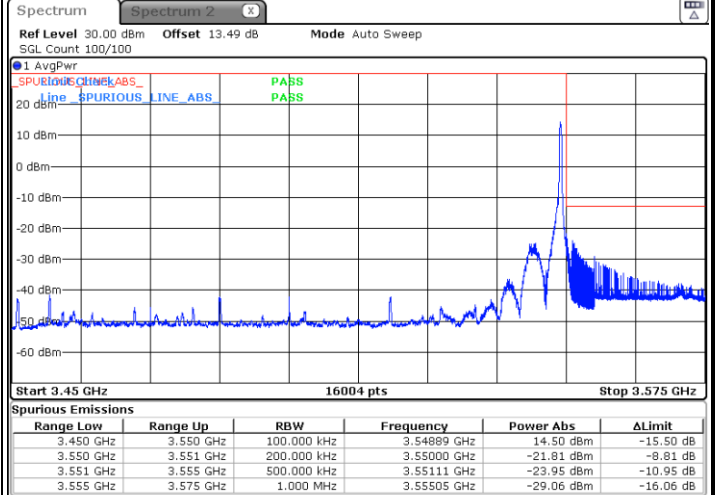
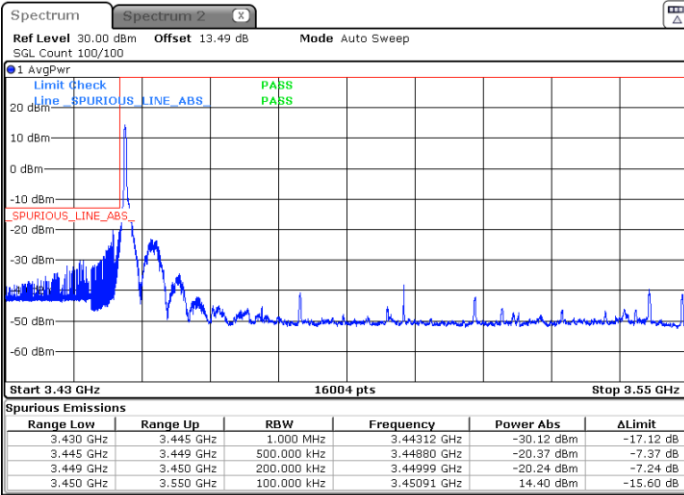
Date: 16.FEB.2022 10:32:55



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

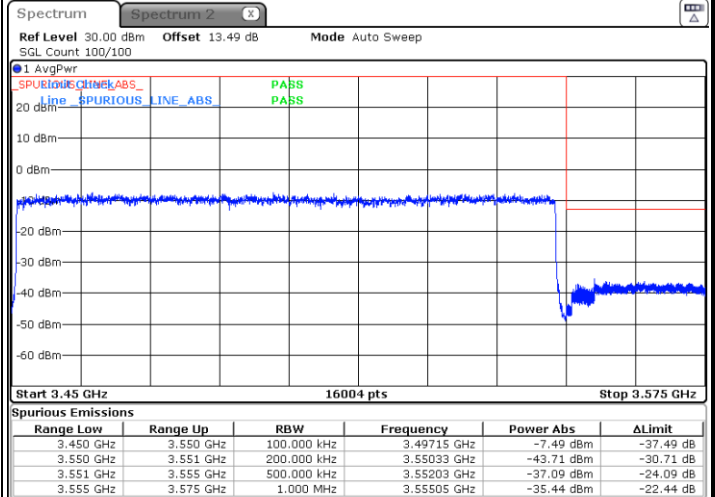
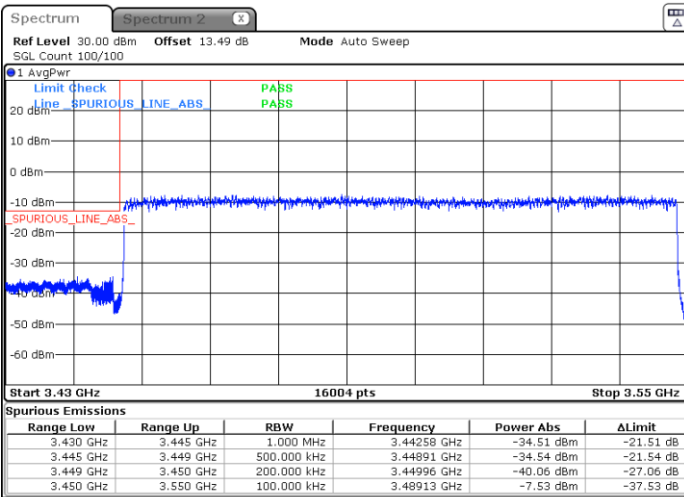


Date: 16.FEB.2022 10:25:41

Date: 16.FEB.2022 10:37:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 10:28:25

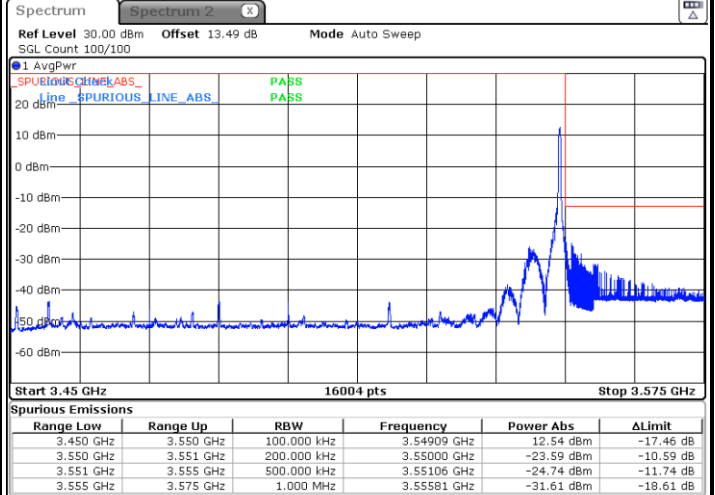
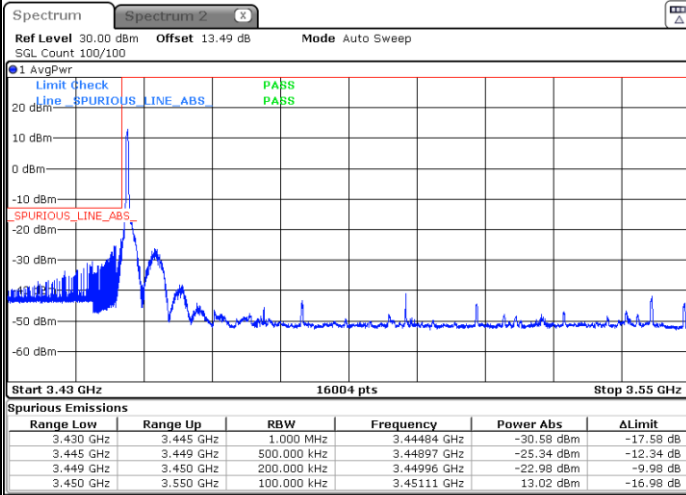
Date: 16.FEB.2022 10:34:02



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

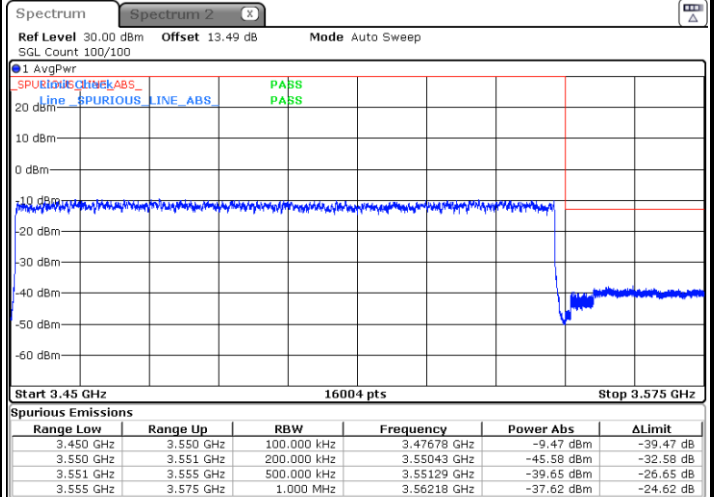
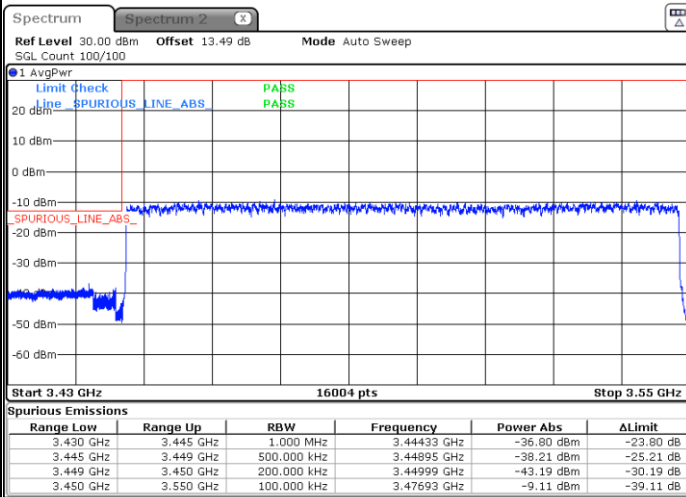


Date: 16.FEB.2022 10:26:28

Date: 16.FEB.2022 10:35:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.FEB.2022 10:27:44

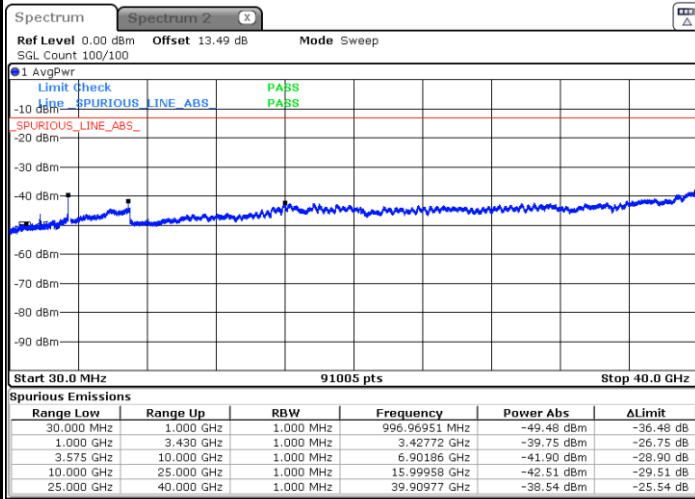
Date: 16.FEB.2022 10:34:45



Conducted Spurious Emission

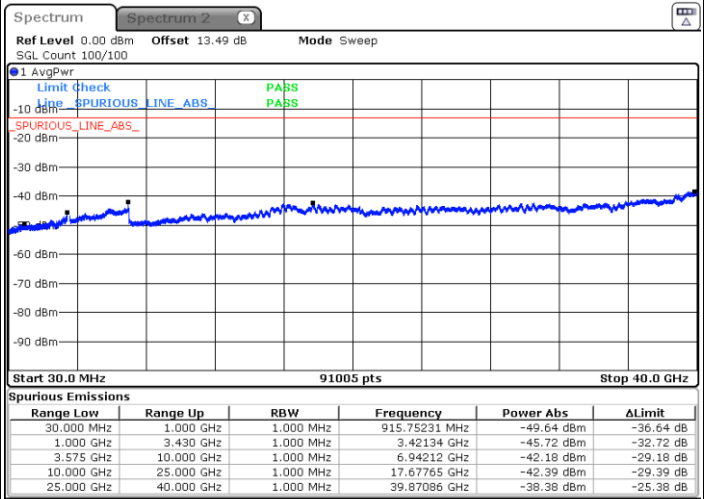
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



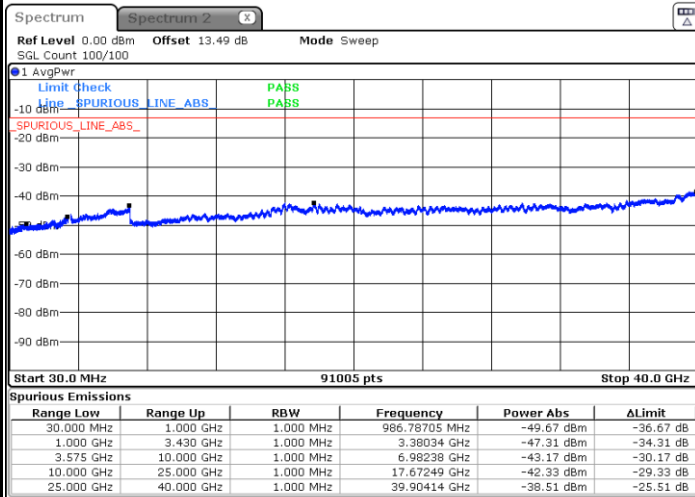
Date: 16.FEB.2022 13:20:26

Middle Channel / 1RB1



Date: 16.FEB.2022 13:18:51

Highest Channel / 1RB1



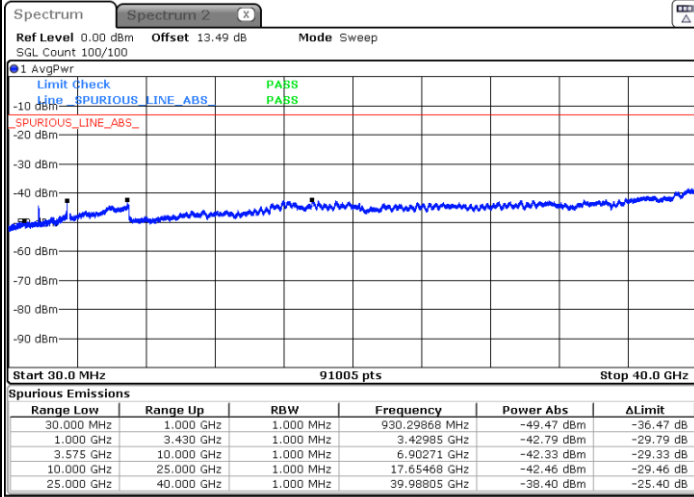
Date: 16.FEB.2022 13:22:20



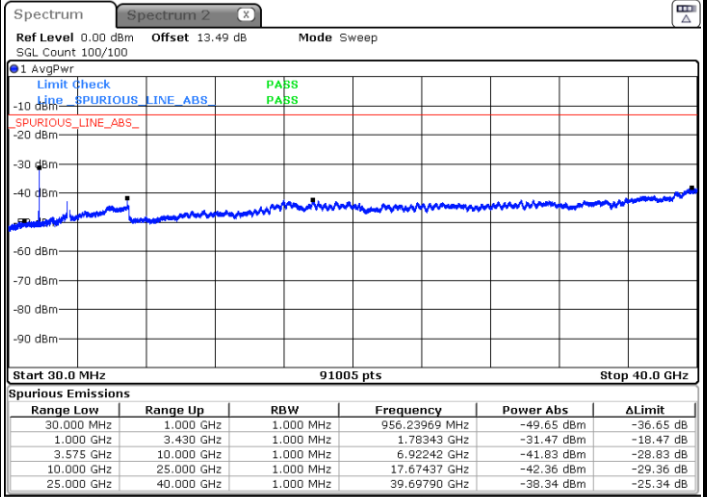
FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

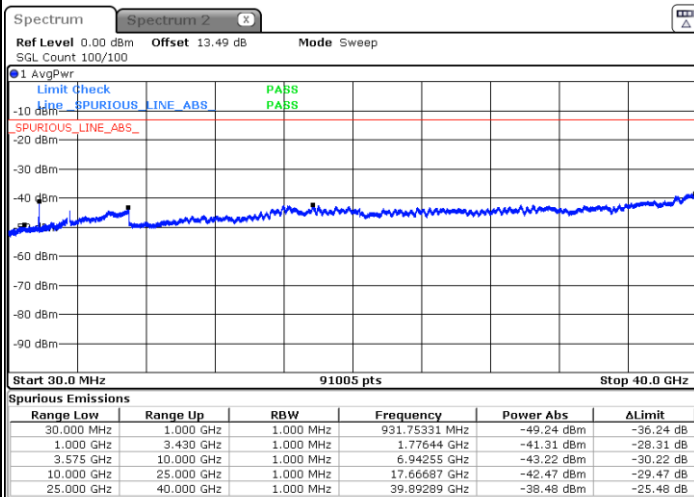


Date: 16.FEB.2022 12:41:41



Date: 16.FEB.2022 12:39:55

Highest Channel / 1RB1



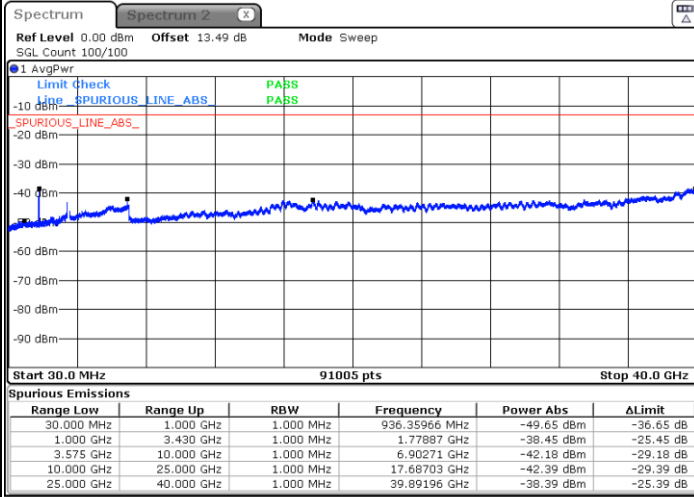
Date: 16.FEB.2022 12:43:11



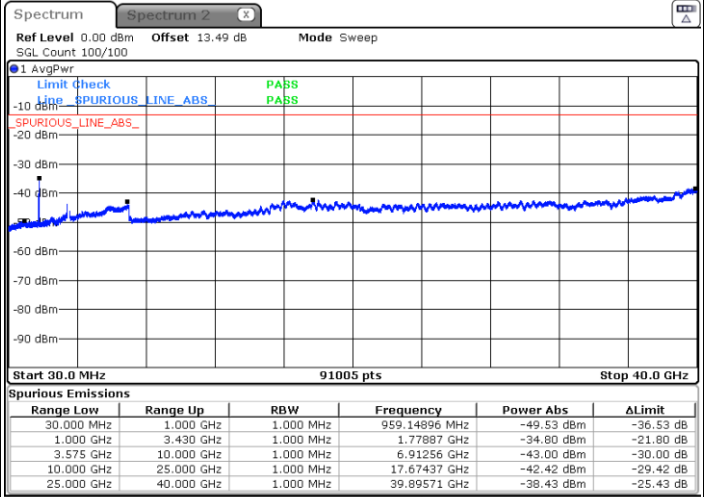
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

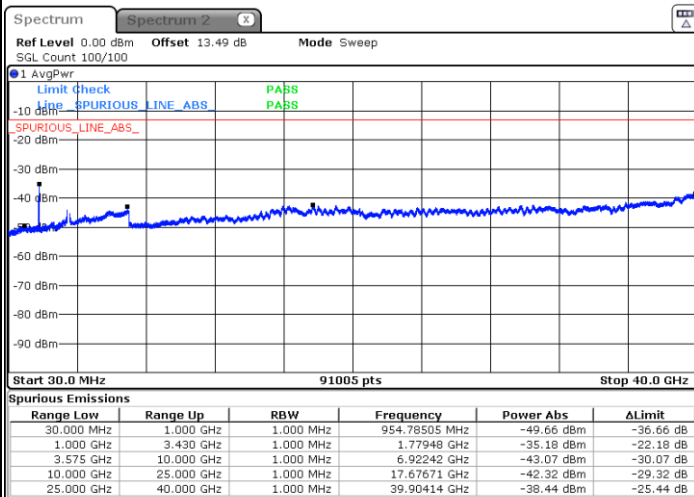


Date: 16.FEB.2022 10:45:11

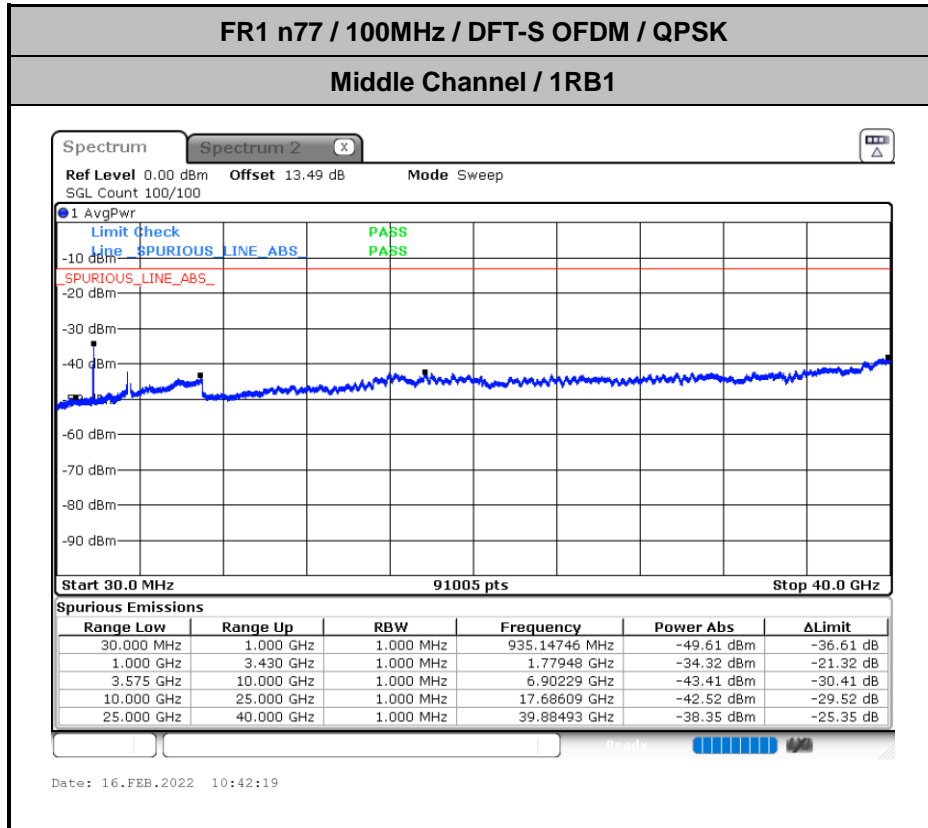


Date: 16.FEB.2022 10:43:51

Highest Channel / 1RB1



Date: 16.FEB.2022 10:47:21





Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0010	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45V.
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 :	22~23°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 / ANT3(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)
Lowest	6732	-42.81	-13	-29.81	-53.29	2.76	13.24	H
	10092	-62.60	-13	-49.60	-72.19	3.42	13.01	H
	13464	-61.59	-13	-48.59	-71.20	3.83	13.44	H
	6732	-45.84	-13	-32.84	-56.28	2.80	13.24	V
	10092	-62.89	-13	-49.89	-72.44	3.46	13.01	V
	13464	-62.33	-13	-49.33	-71.89	3.88	13.44	V
Middle	6900	-44.16	-13	-31.16	-54.64	2.76	13.24	H
	10356	-60.86	-13	-47.86	-70.45	3.42	13.01	H
	13820	-62.19	-13	-49.19	-71.80	3.83	13.44	H
	6900	-45.98	-13	-32.98	-56.42	2.80	13.24	V
	10365	-61.63	-13	-48.63	-71.18	3.46	13.01	V
	13820	-62.92	-13	-49.92	-72.48	3.88	13.44	V
Highest	6984	-43.86	-13	-30.86	-54.34	2.76	13.24	H
	10488	-60.32	-13	-47.32	-69.91	3.42	13.01	H
	13980	-62.53	-13	-49.53	-72.14	3.83	13.44	H
	6984	-45.03	-13	-32.03	-55.47	2.80	13.24	V
	10488	-60.53	-13	-47.53	-70.08	3.46	13.01	V
	13980	-62.64	-13	-49.64	-72.20	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 / ANT2(LTE) & ANT3(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	-55.77	-13	-42.77	-66.25	2.76	13.24	H
	10368	-52.03	-13	-39.03	-61.62	3.42	13.01	H
	13824	-60.42	-13	-47.42	-70.03	3.83	13.44	H
	6900	-57.06	-13	-44.06	-67.50	2.80	13.24	V
	10368	-55.35	-13	-42.35	-64.90	3.46	13.01	V
	13824	-60.18	-13	-47.18	-69.74	3.88	13.44	V

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