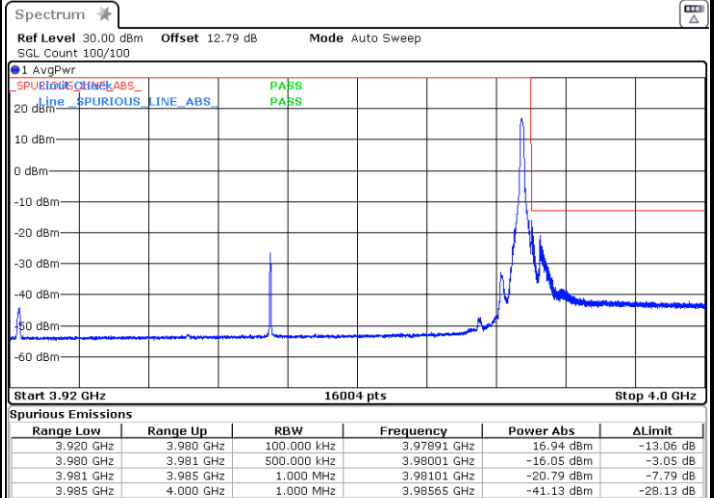
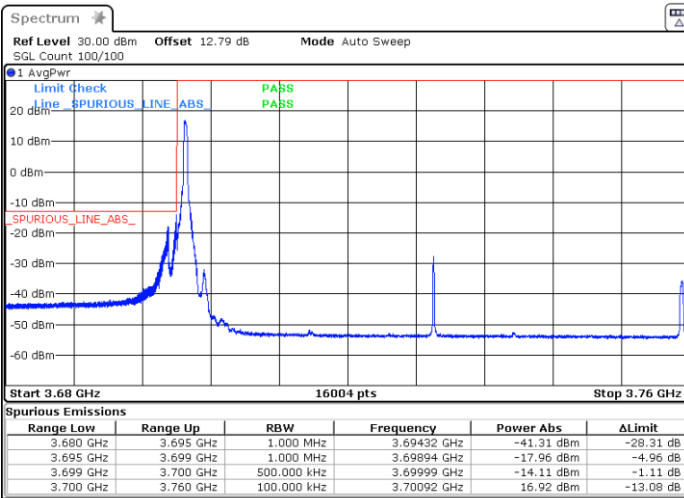




FR1 n77/ 60MHz / DFT-S OFDM / PI/2 BPSK

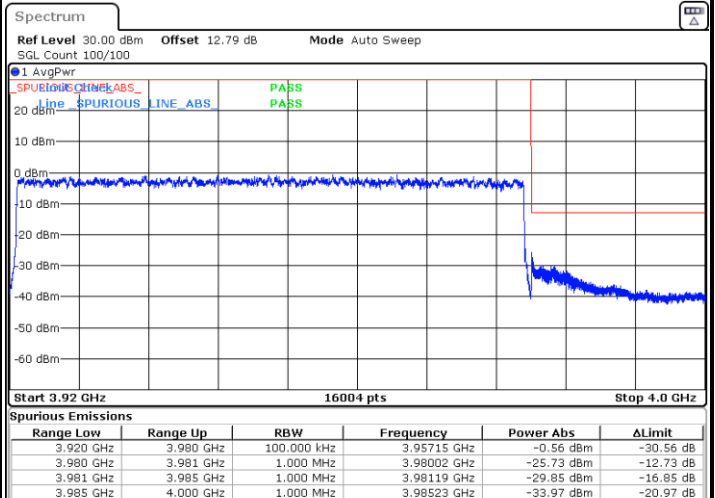
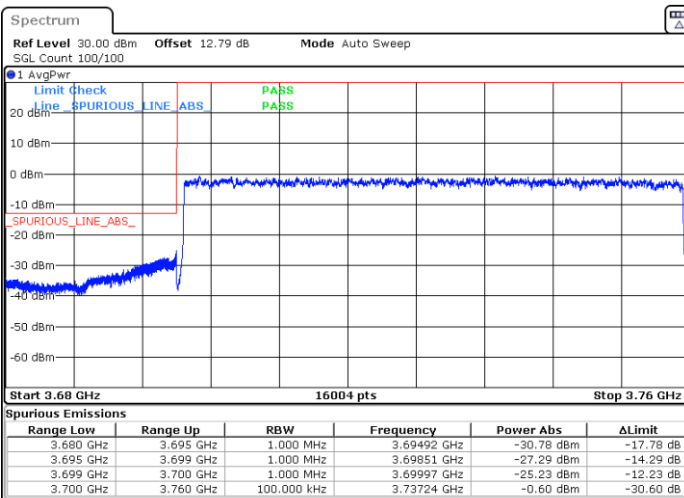
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

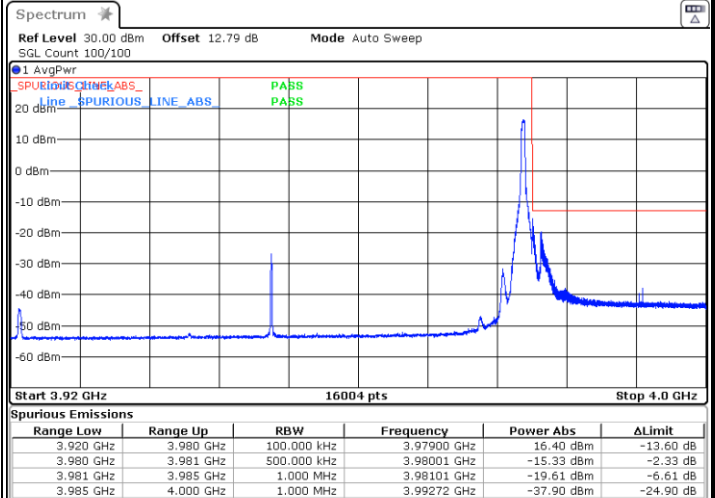
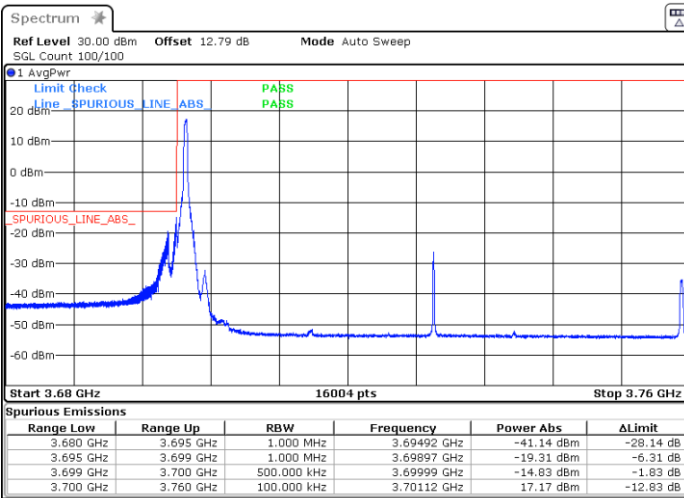




FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

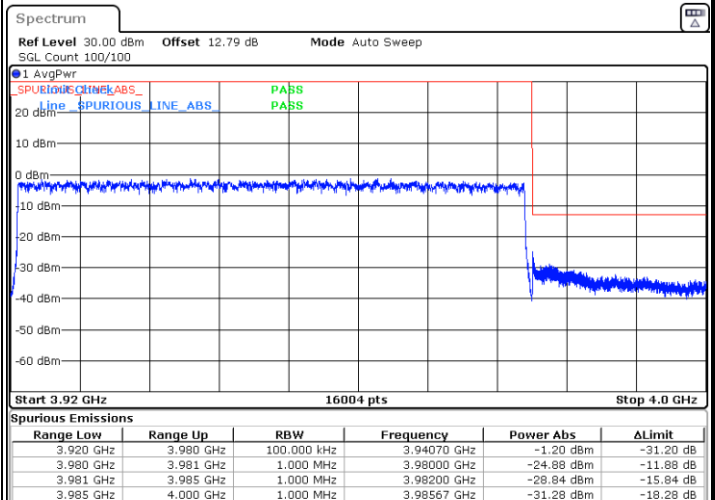
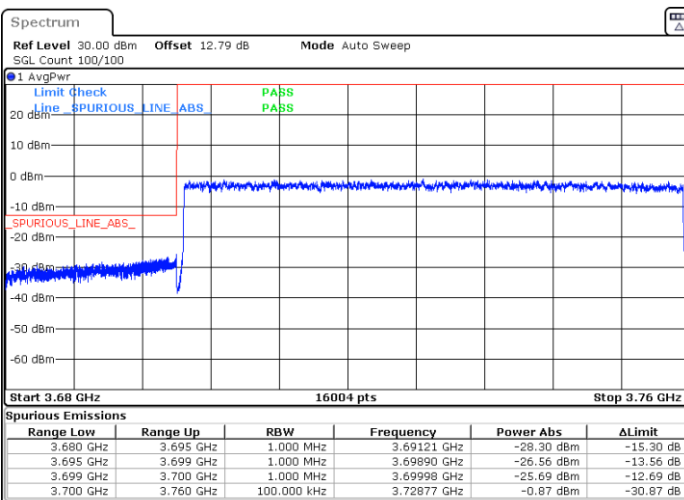


Date: 27.DEC.2021 19:43:25

Date: 27.DEC.2021 20:31:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 19:22:49

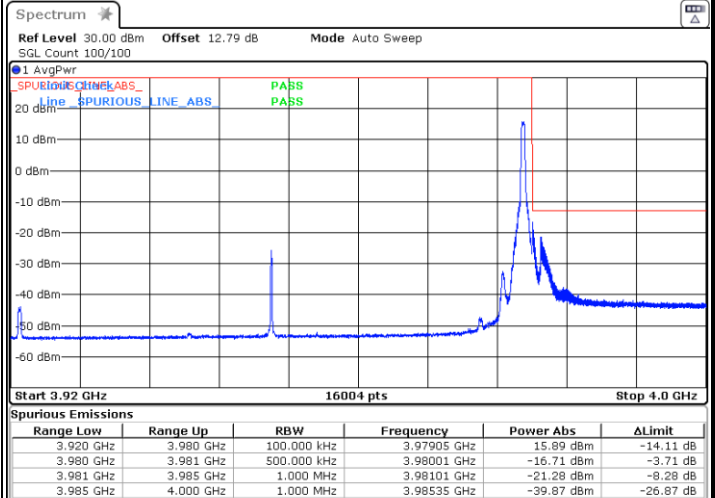
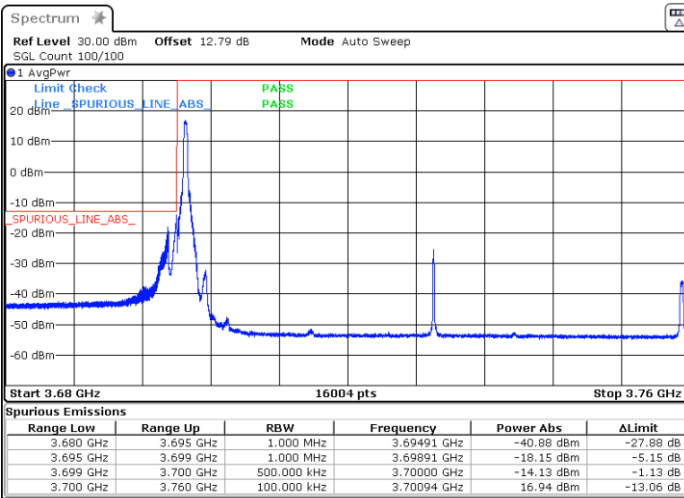
Date: 27.DEC.2021 20:25:14



FR1 n77 / 60MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

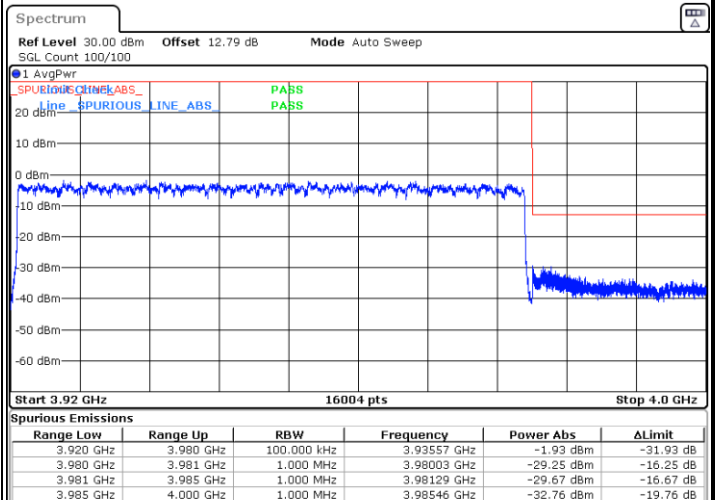
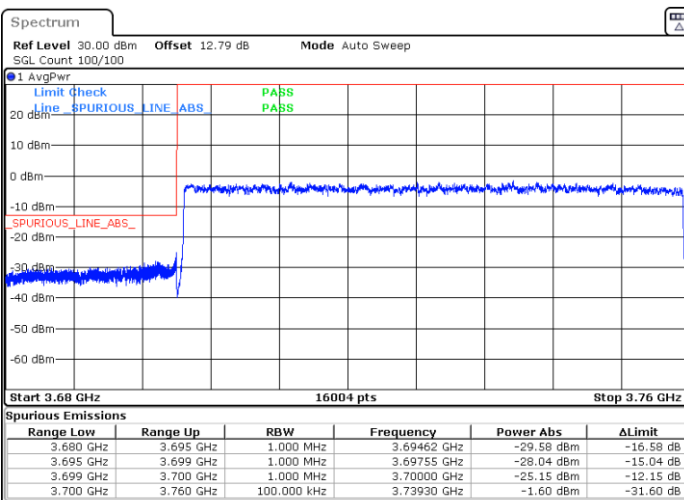


Date: 27.DEC.2021 19:42:00

Date: 27.DEC.2021 20:30:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



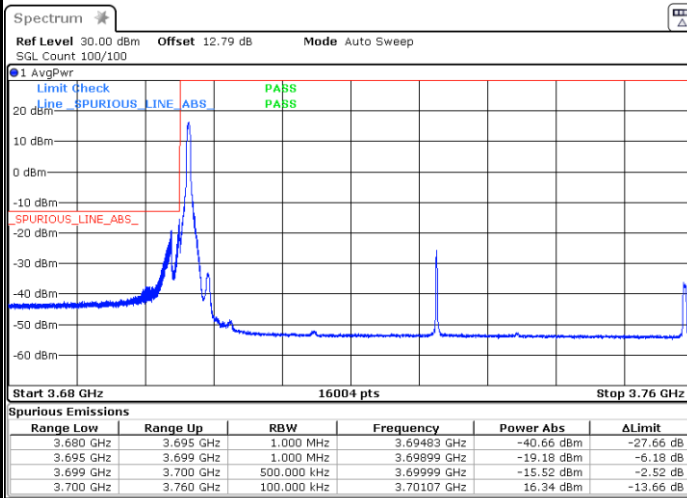
Date: 27.DEC.2021 19:23:47

Date: 27.DEC.2021 20:25:58

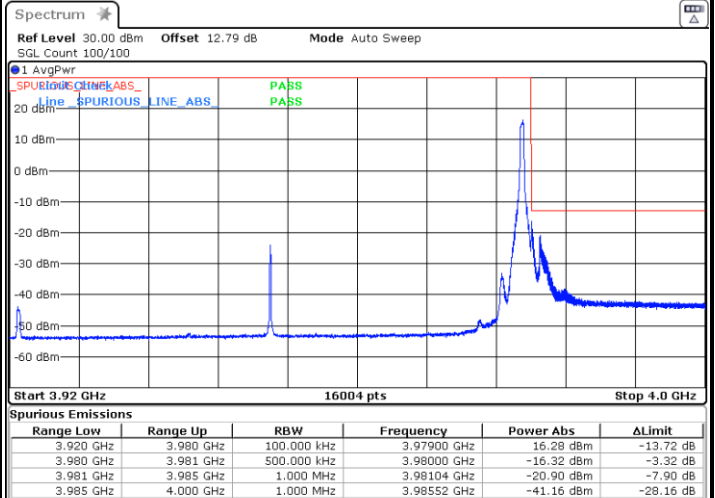


FR1 n77 / 60MHz / DFT-S OFDM / 64Q

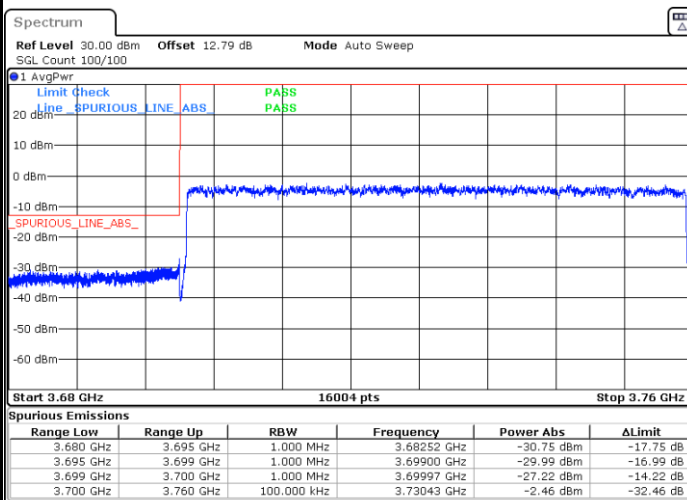
Lowest Band Edge / 1RB0



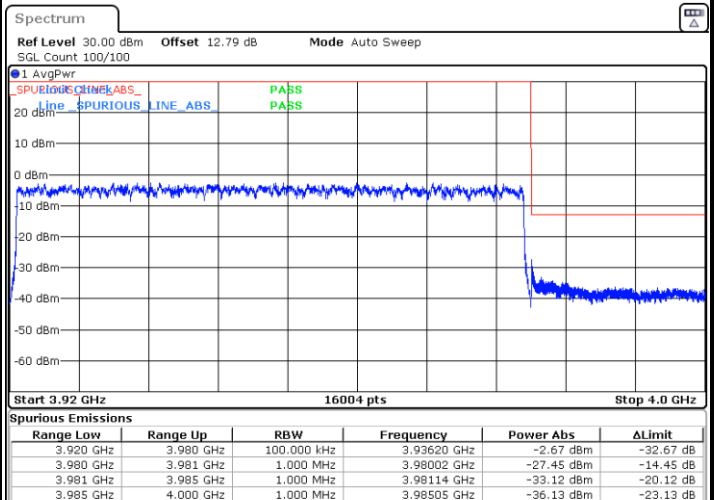
Highest Band Edge / 1RB24



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

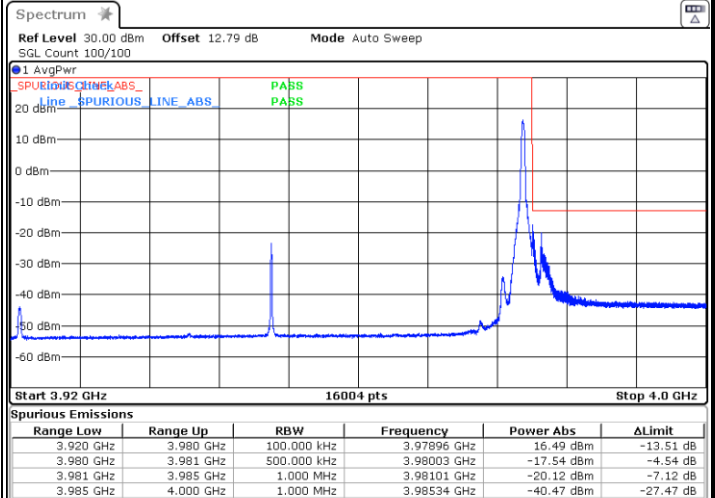
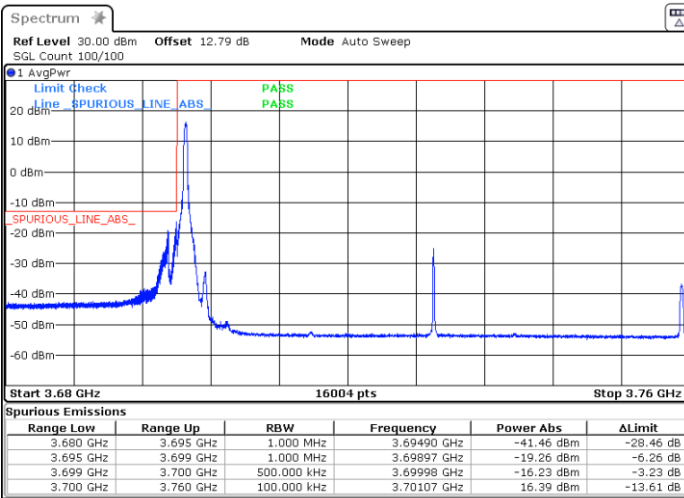




FR1 n77 / 60MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RB24

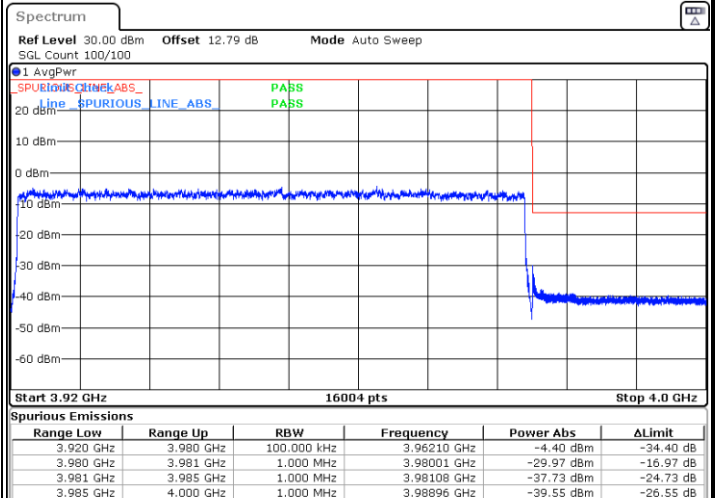
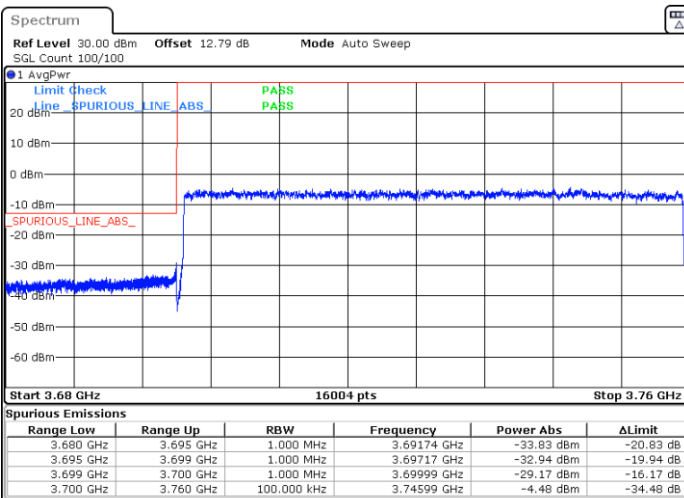


Date: 27.DEC.2021 19:28:37

Date: 27.DEC.2021 20:28:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 19:26:17

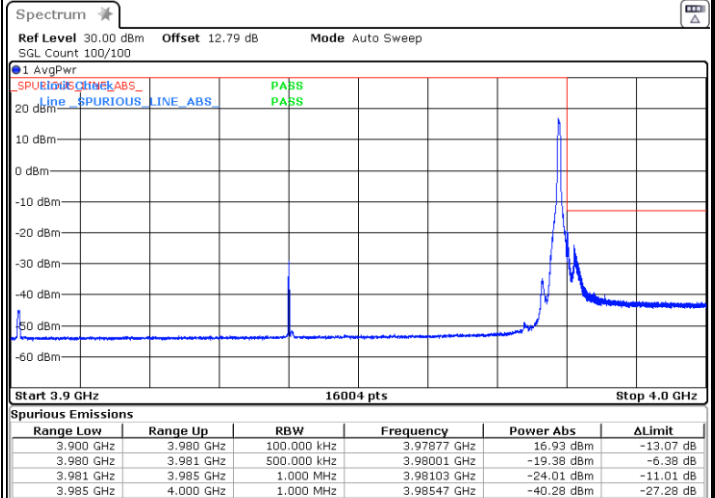
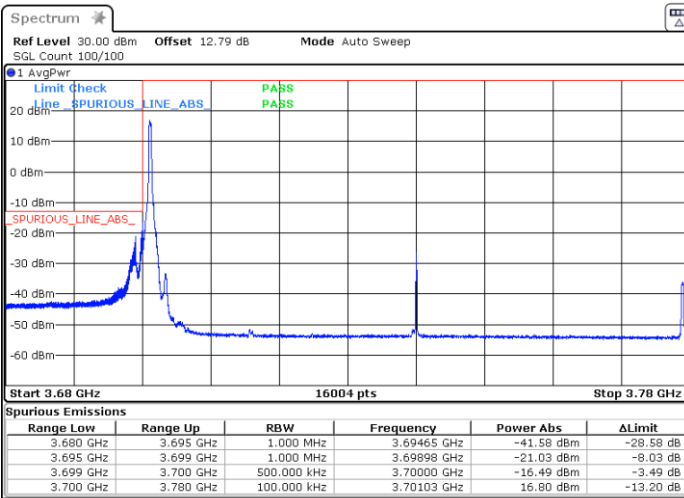
Date: 27.DEC.2021 20:27:35



FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

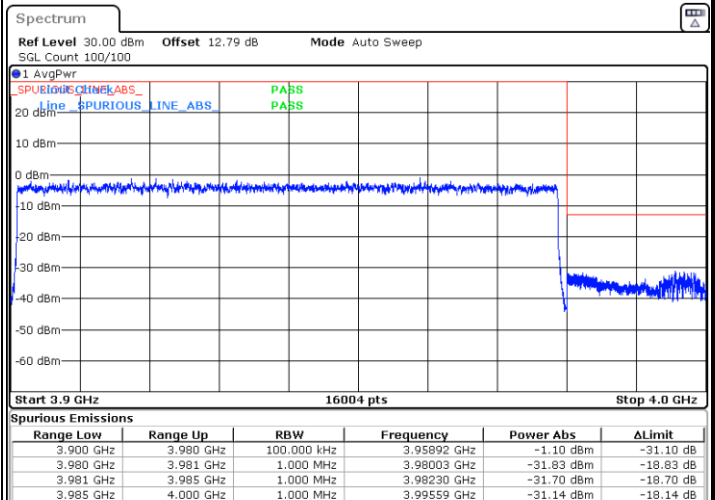
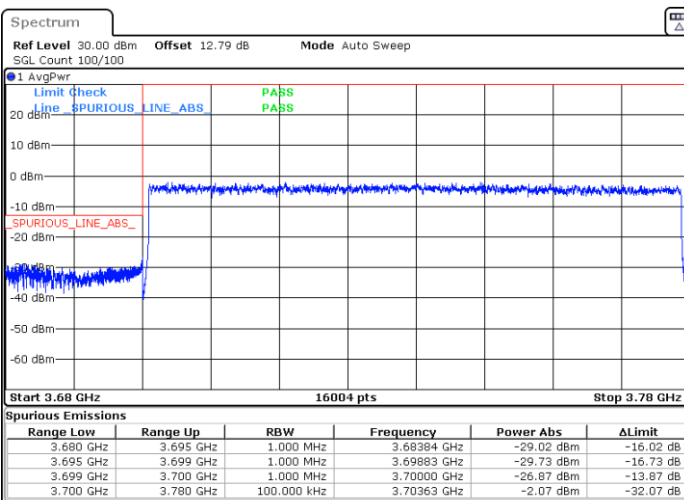
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

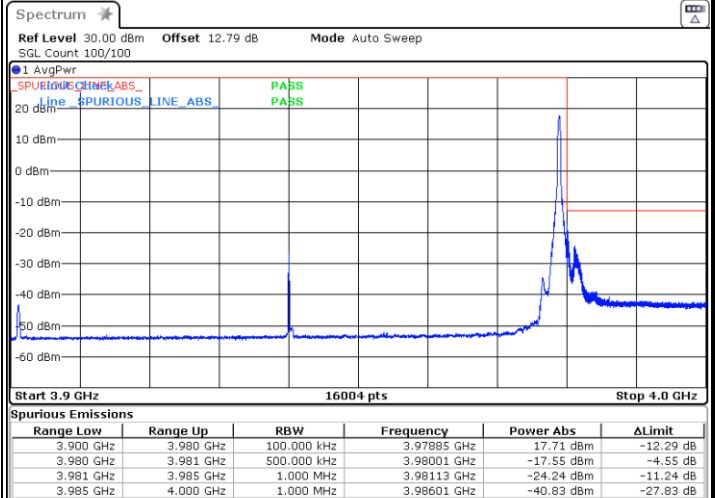
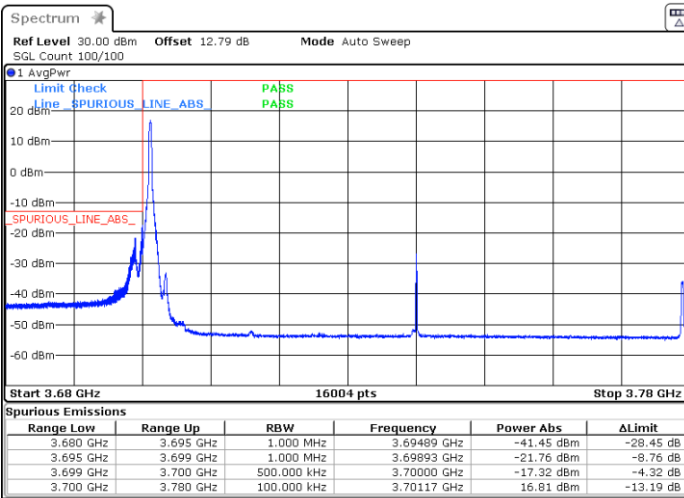




FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

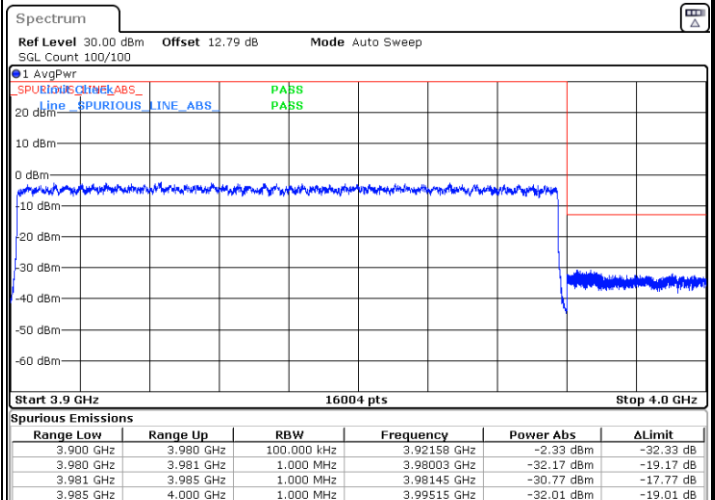
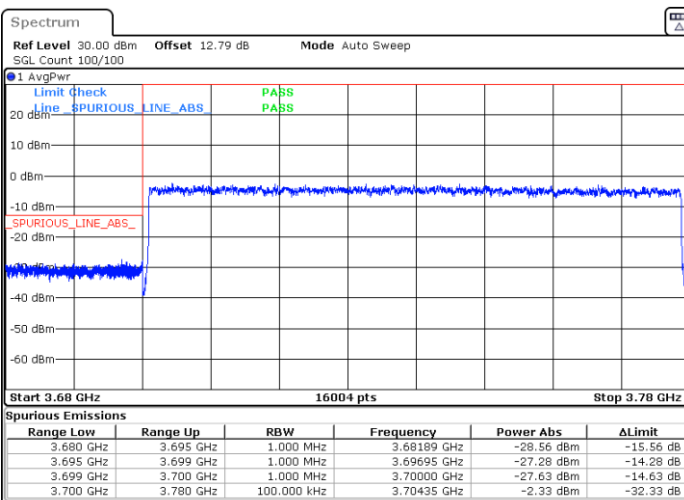


Date: 27.DEC.2021 20:43:25

Date: 27.DEC.2021 21:00:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 20:36:20

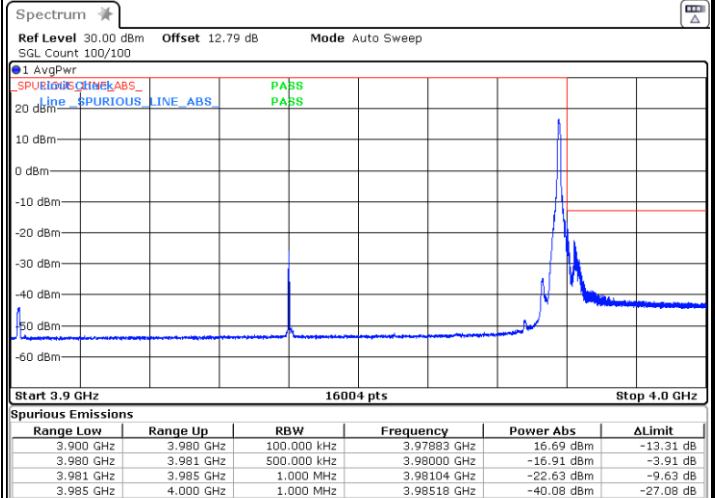
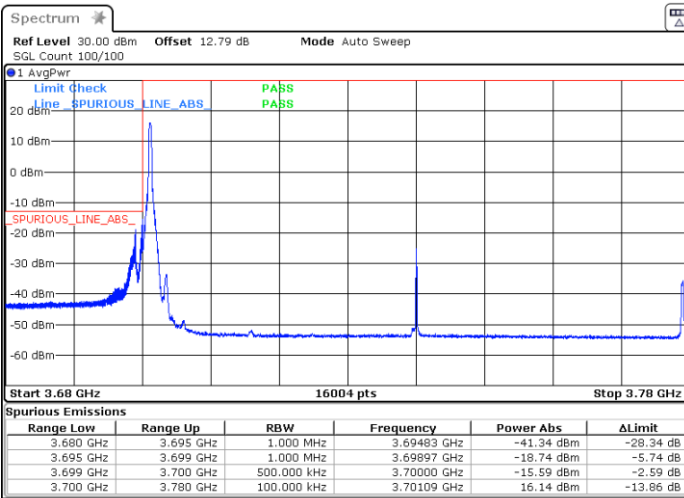
Date: 27.DEC.2021 20:53:57



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

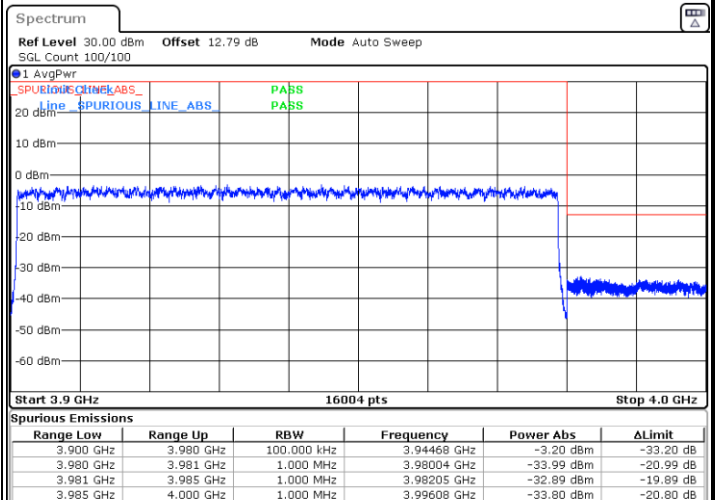
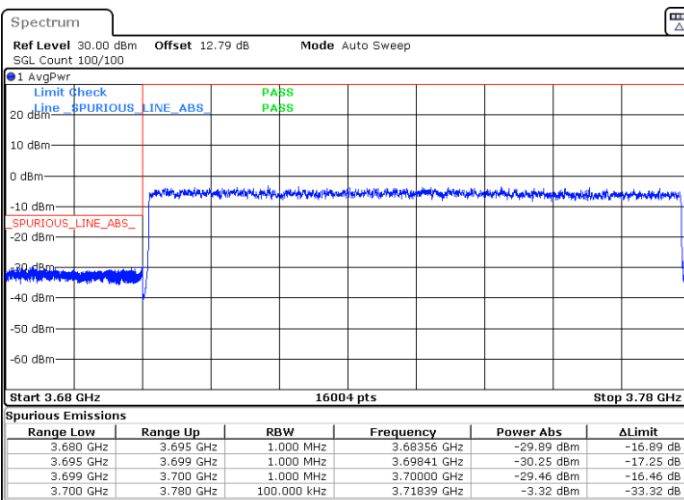


Date: 27.DEC.2021 20:42:29

Date: 27.DEC.2021 20:59:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 20:37:18

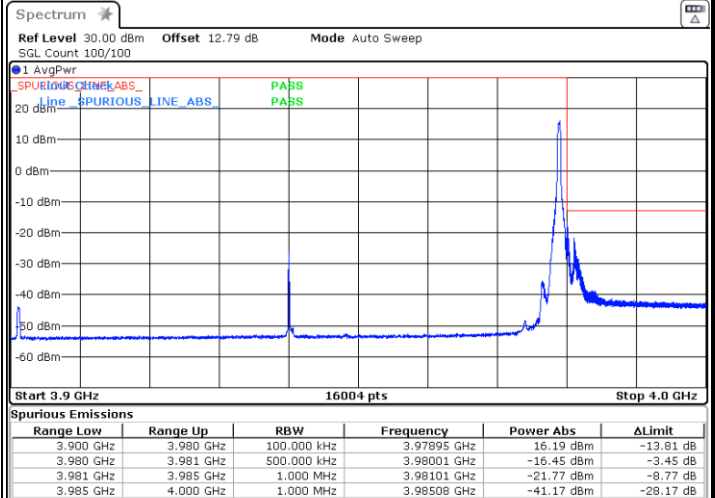
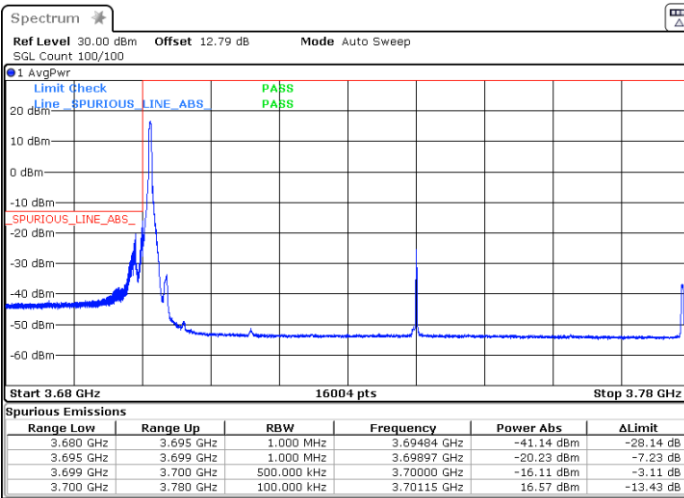
Date: 27.DEC.2021 20:54:45



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

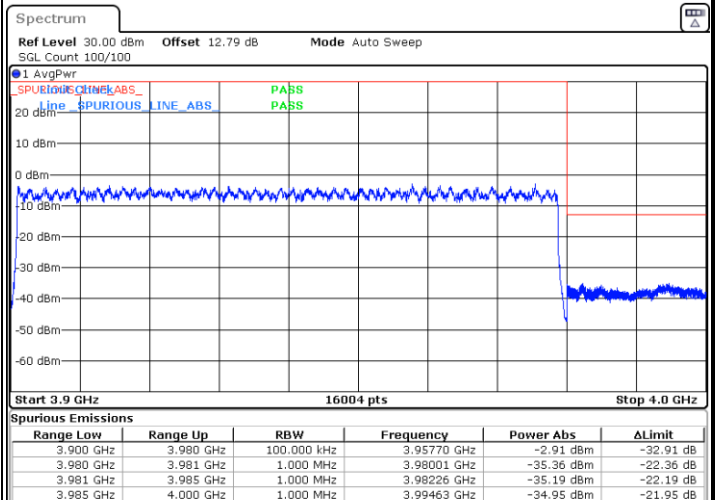
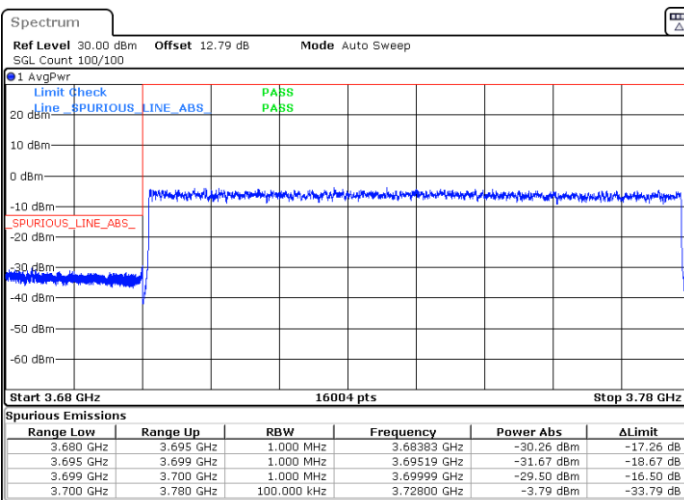


Date: 27.DEC.2021 20:41:32

Date: 27.DEC.2021 20:58:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 20:38:04

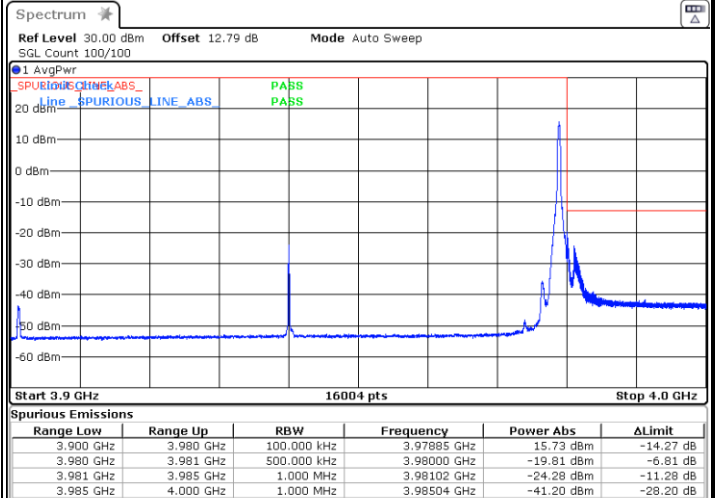
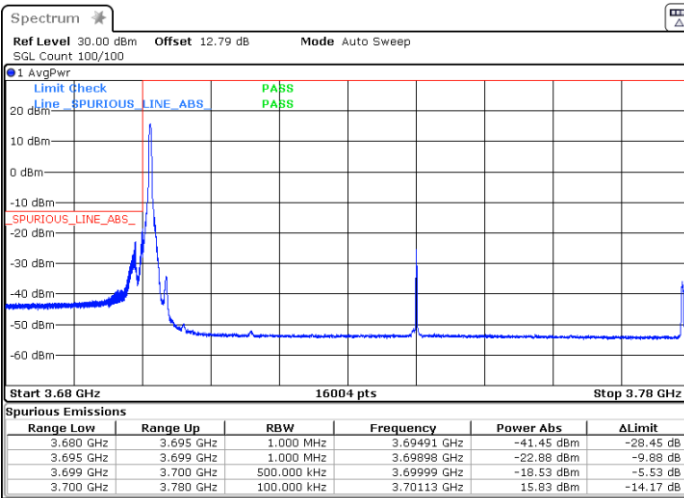
Date: 27.DEC.2021 20:55:28



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

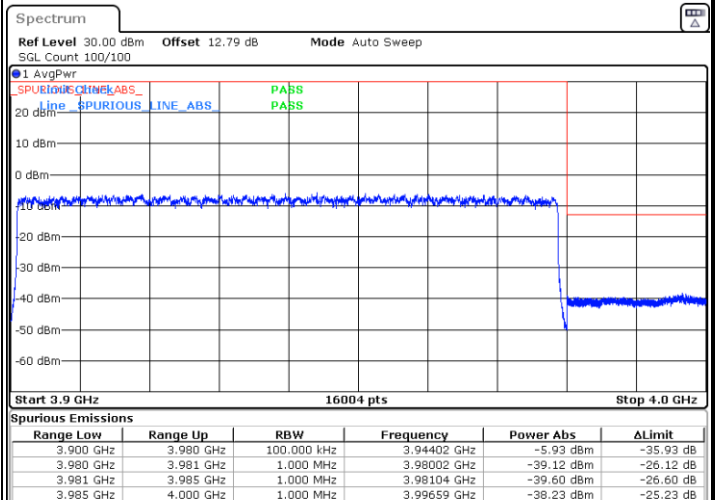
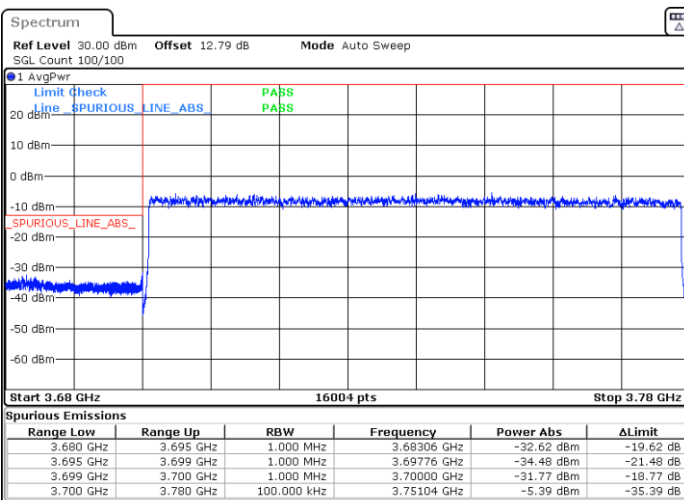


Date: 27.DEC.2021 20:40:20

Date: 27.DEC.2021 20:57:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 20:39:05

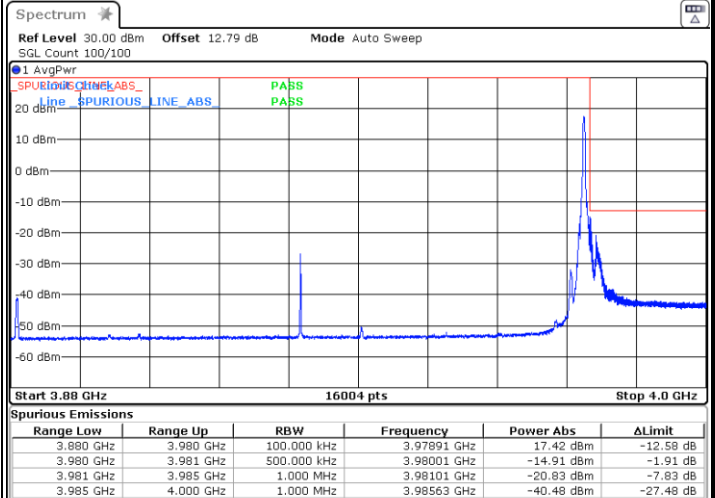
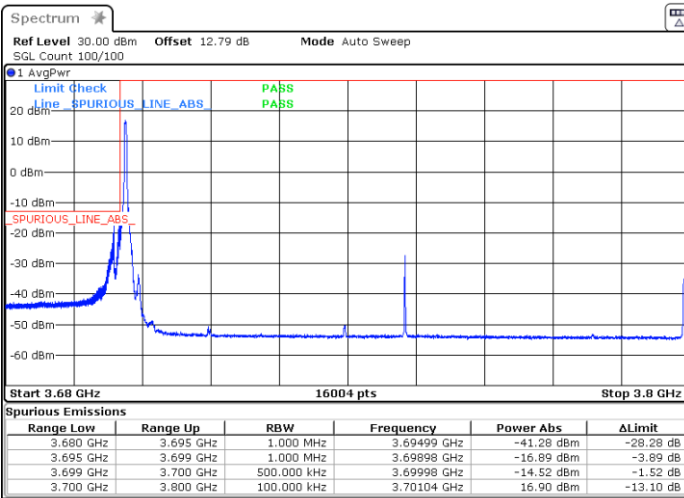
Date: 27.DEC.2021 20:56:15



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

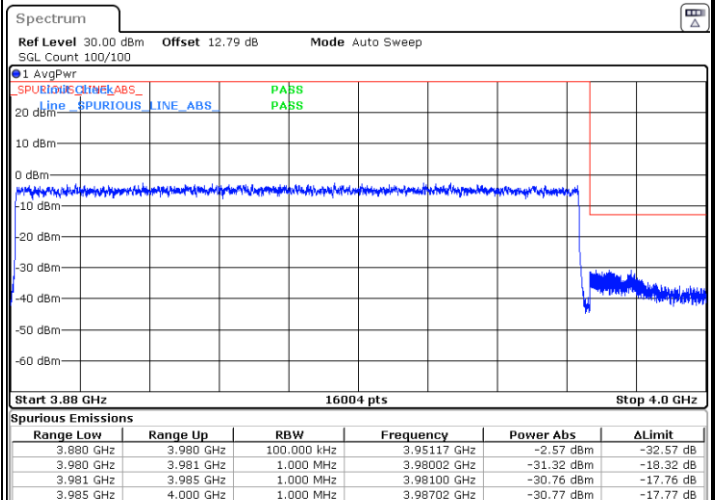
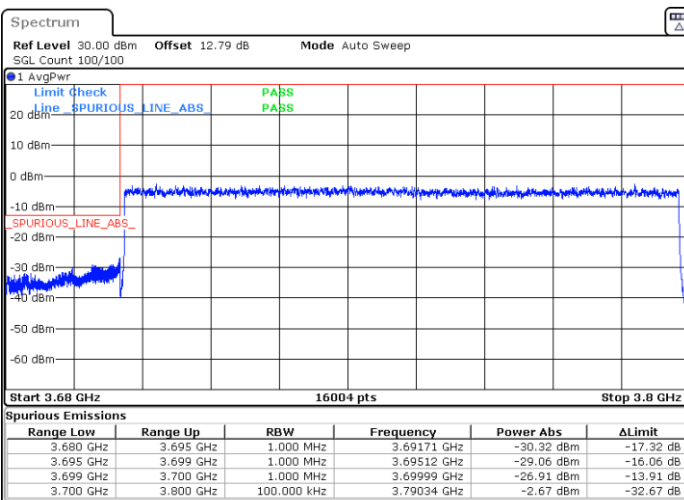


Date: 27.DEC.2021 21:26:27

Date: 27.DEC.2021 21:42:19

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 21:04:45

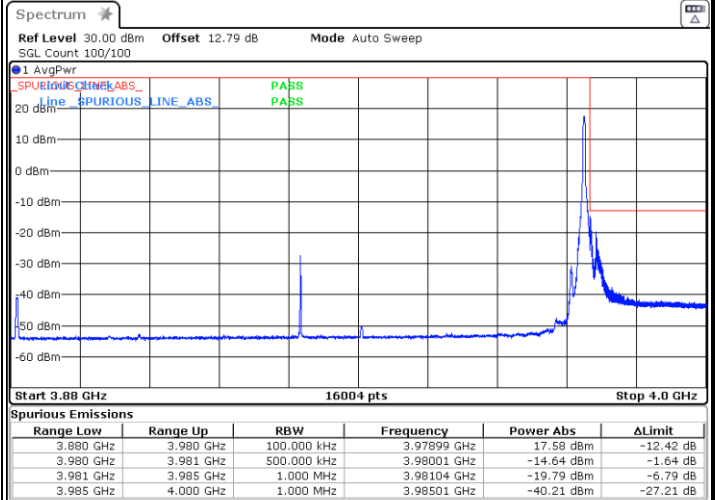
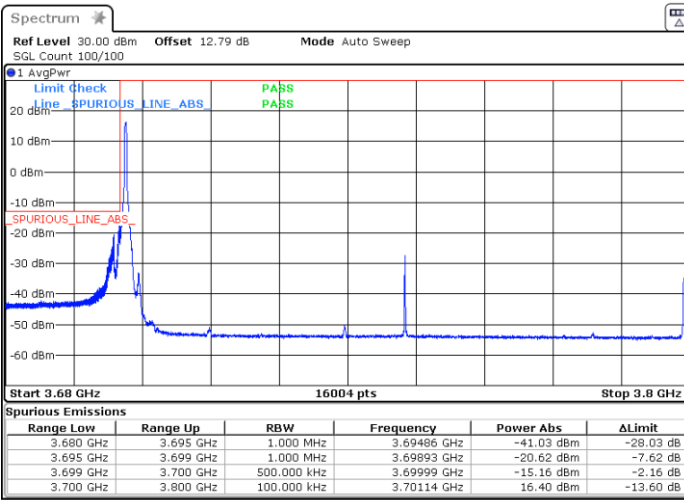
Date: 27.DEC.2021 21:32:25



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

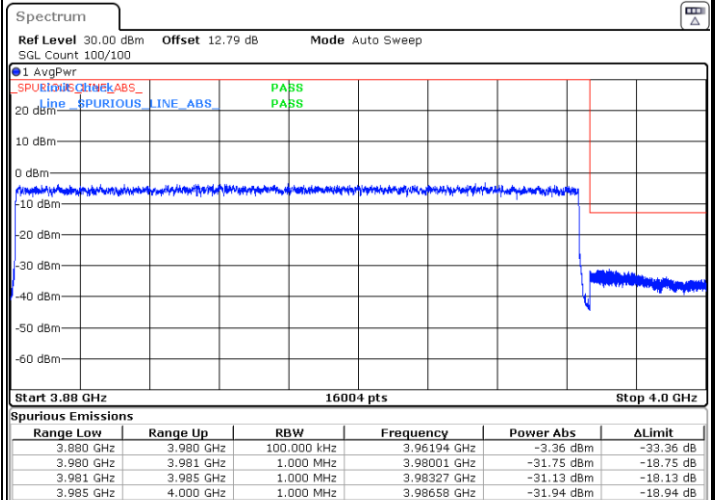
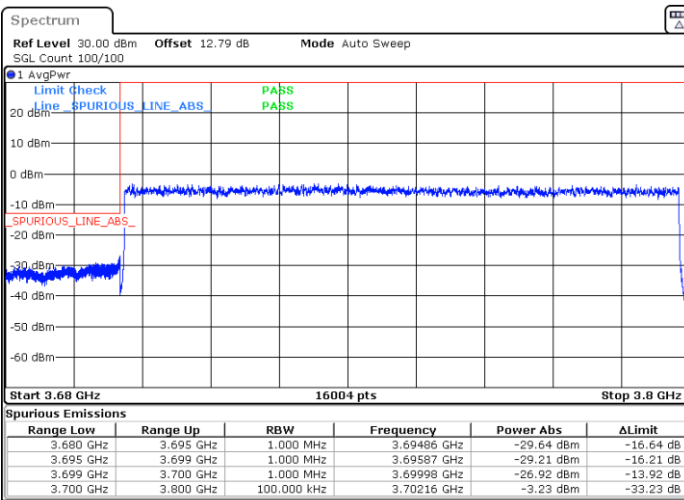
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

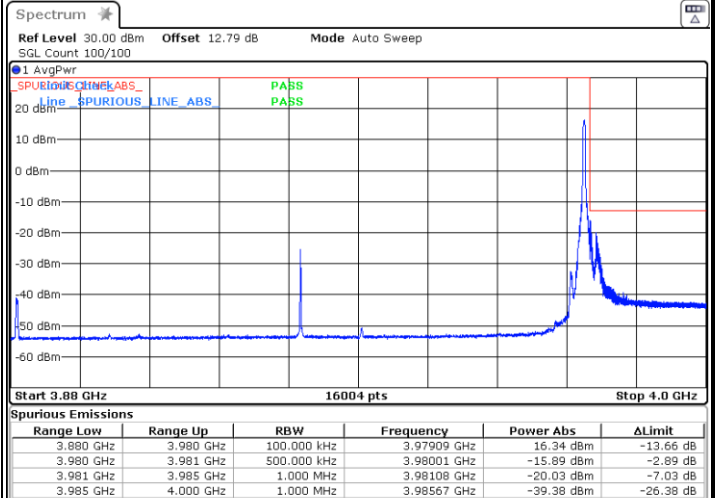
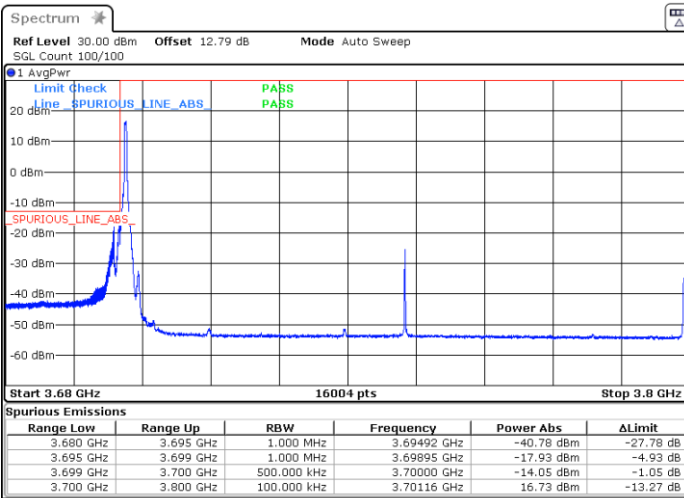




FR1 n77 / 100MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

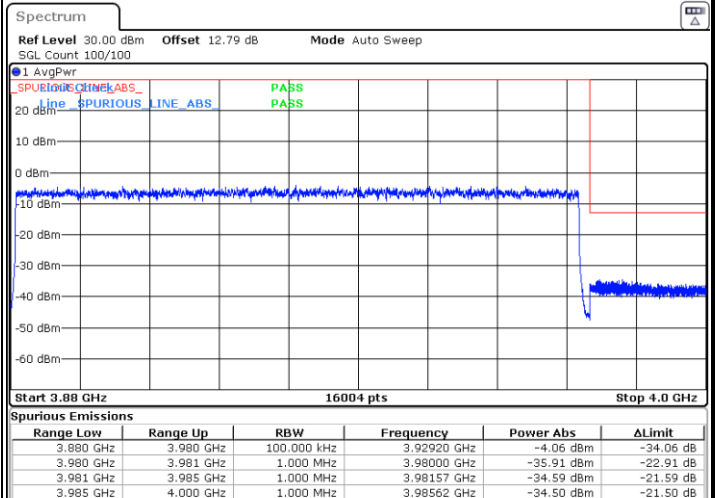
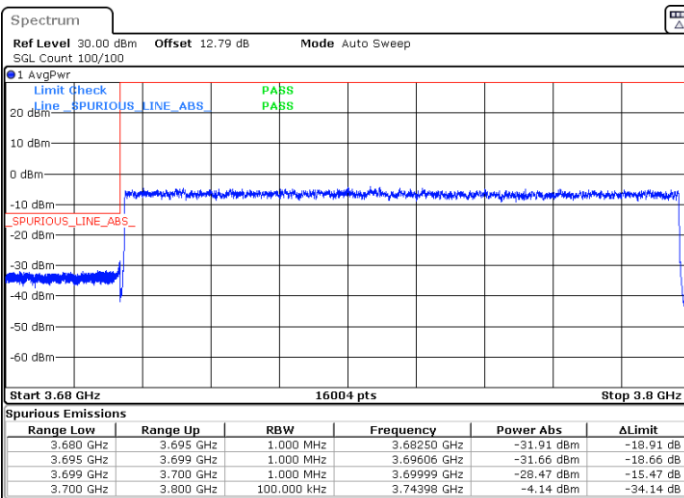


Date: 27.DEC.2021 21:24:09

Date: 27.DEC.2021 21:40:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 21:13:10

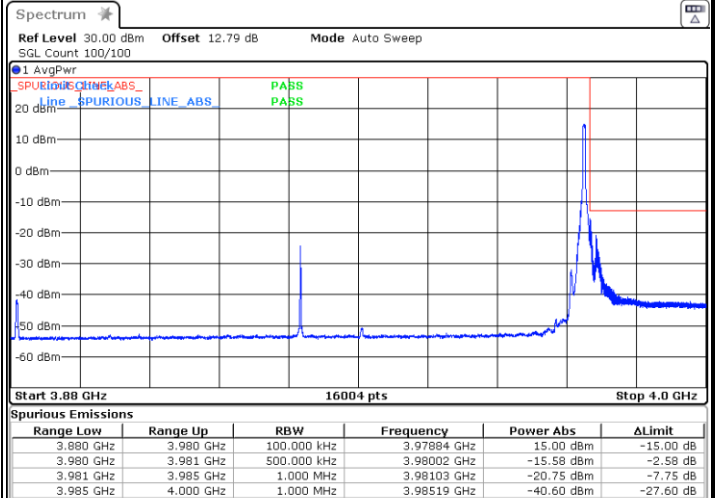
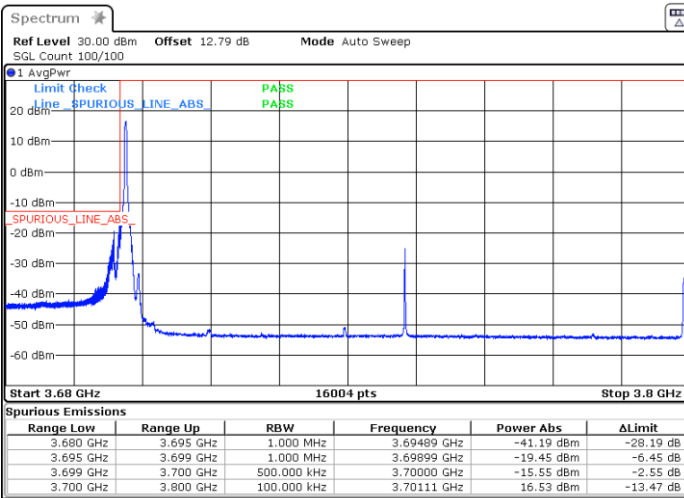
Date: 27.DEC.2021 21:33:54



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

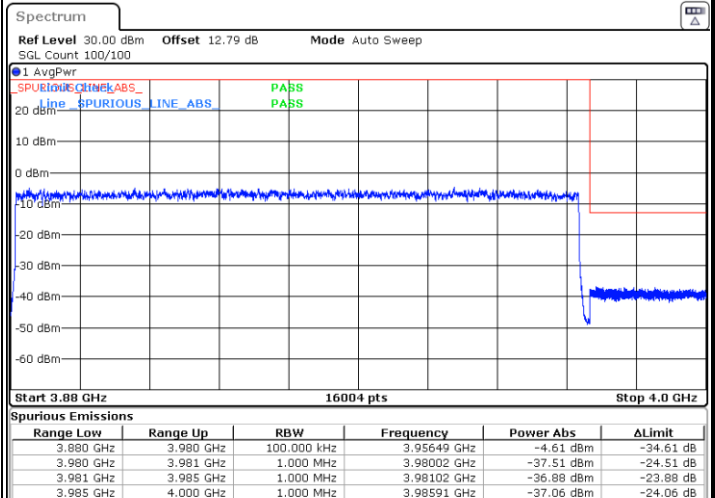
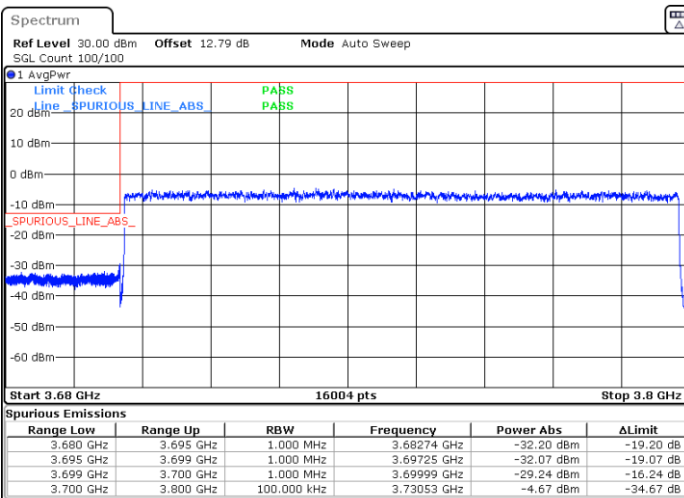


Date: 27.DEC.2021 21:19:35

Date: 27.DEC.2021 21:39:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 21:14:05

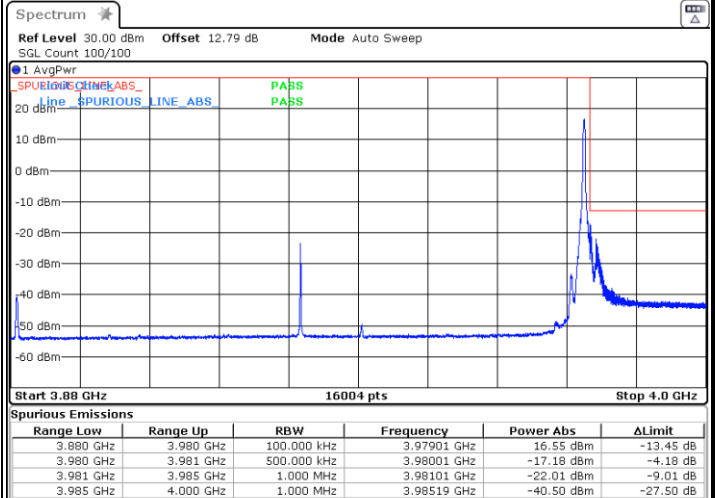
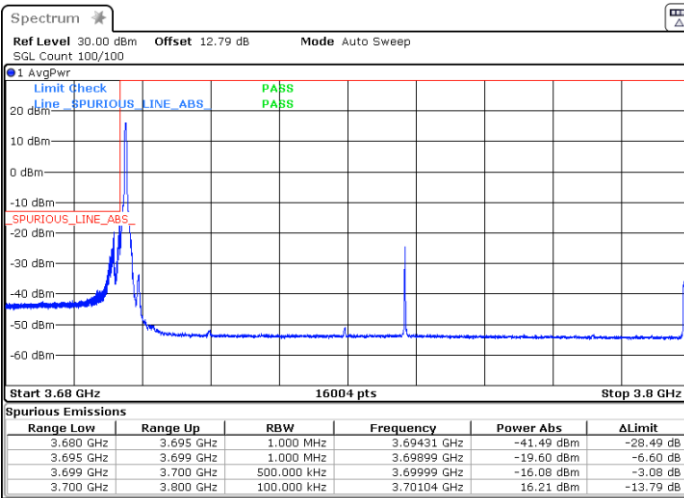
Date: 27.DEC.2021 21:34:57



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

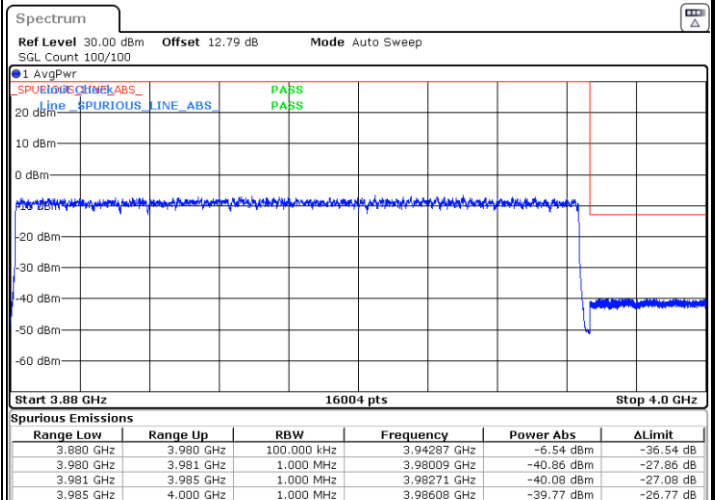
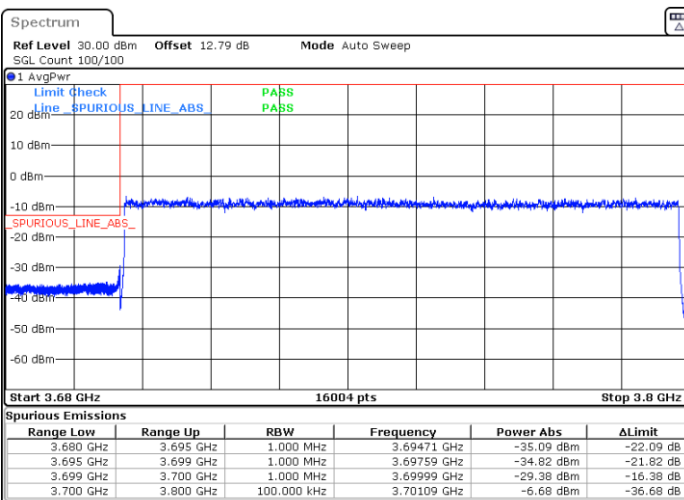


Date: 27.DEC.2021 21:17:31

Date: 27.DEC.2021 21:38:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.DEC.2021 21:15:13

Date: 27.DEC.2021 21:36:19

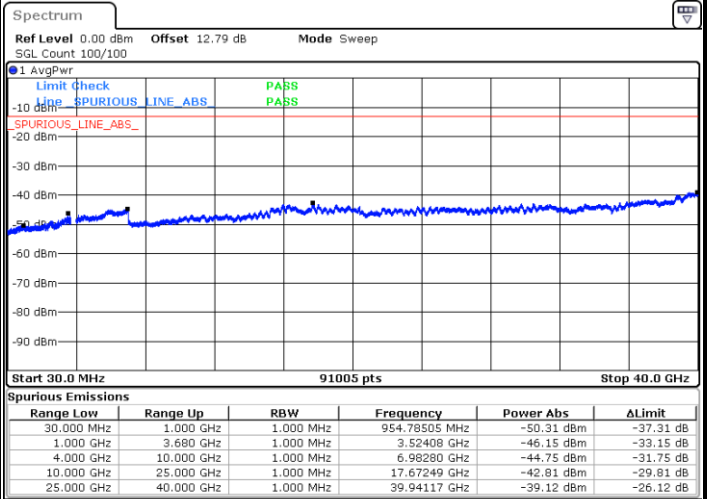
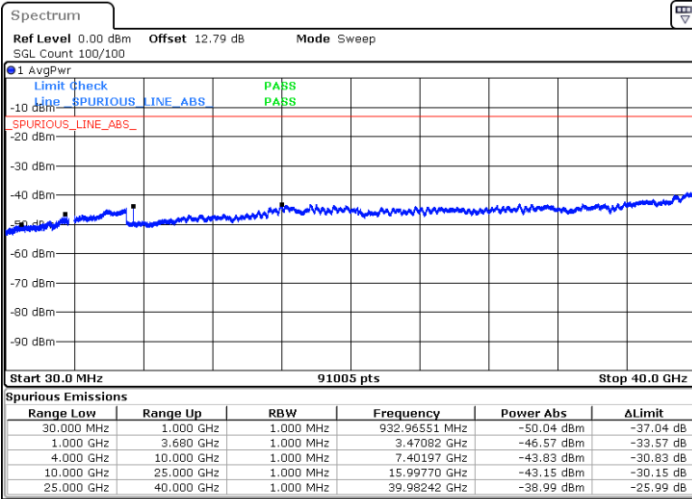


Conducted Spurious Emission

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

Lowest Channel / 1RB1

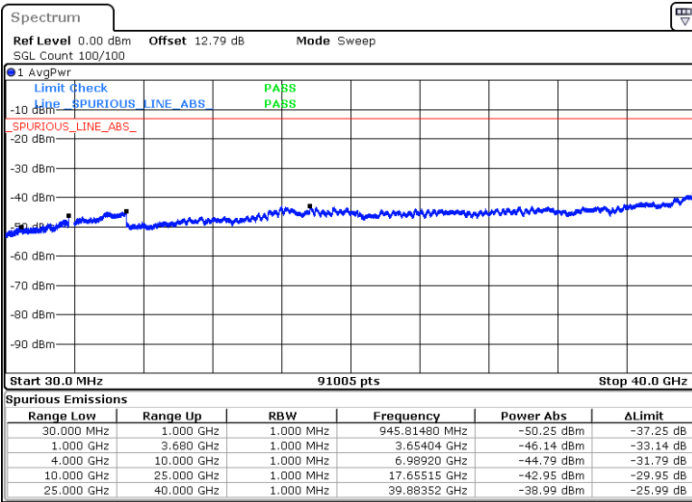
Middle Channel / 1RB1



Date: 27.DEC.2021 16:36:25

Date: 27.DEC.2021 16:37:56

Highest Channel / 1RB1



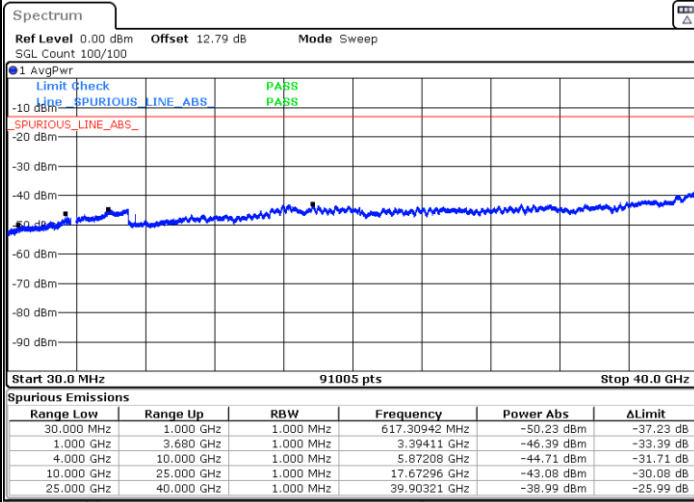
Date: 27.DEC.2021 16:39:46



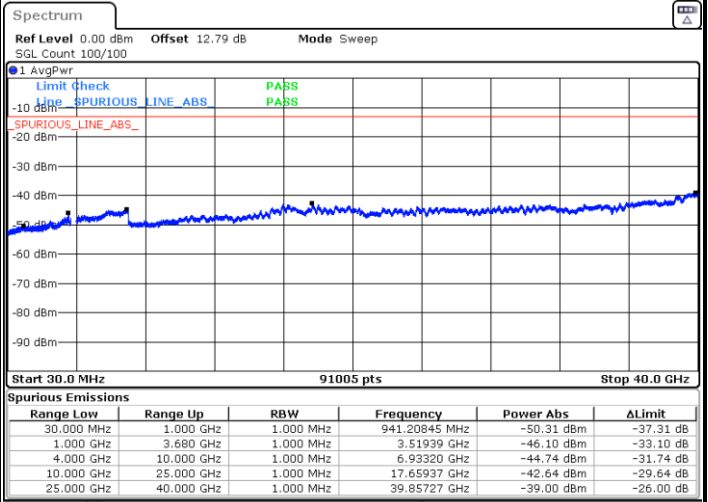
FR1 n77 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

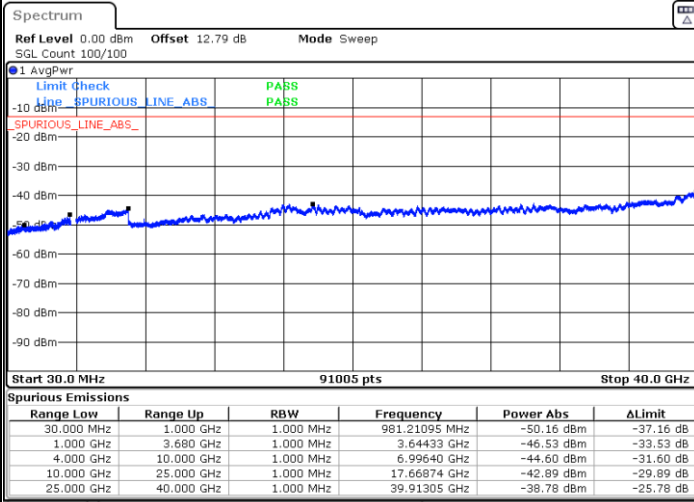


Date: 27.DEC.2021 17:51:36



Date: 27.DEC.2021 17:53:07

Highest Channel / 1RB1



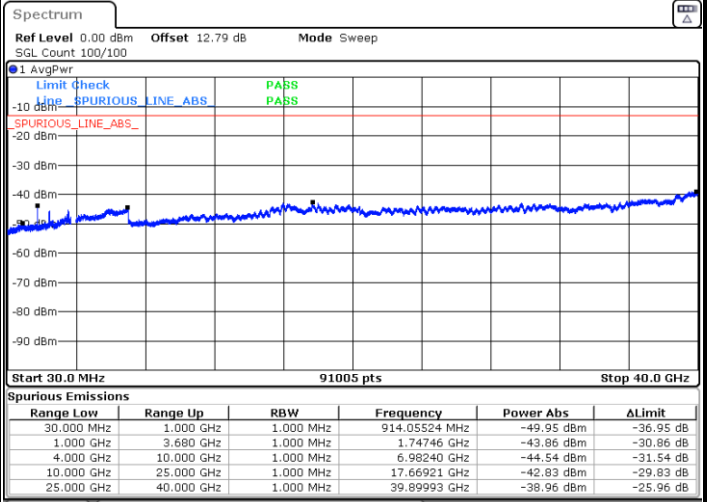
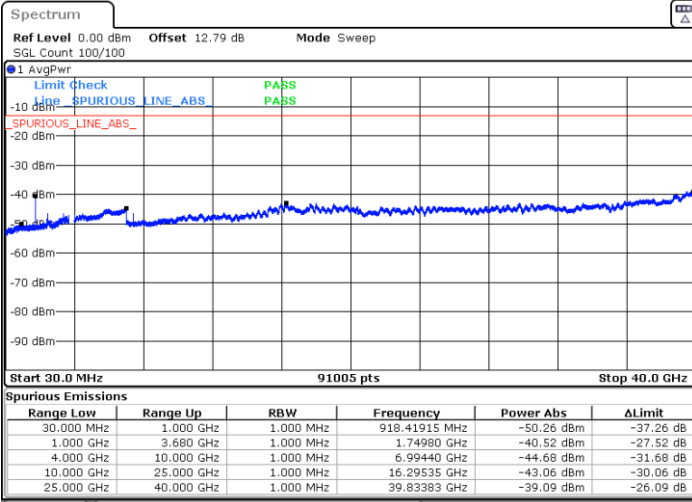
Date: 27.DEC.2021 17:54:46



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

Lowest Channel / 1RB1

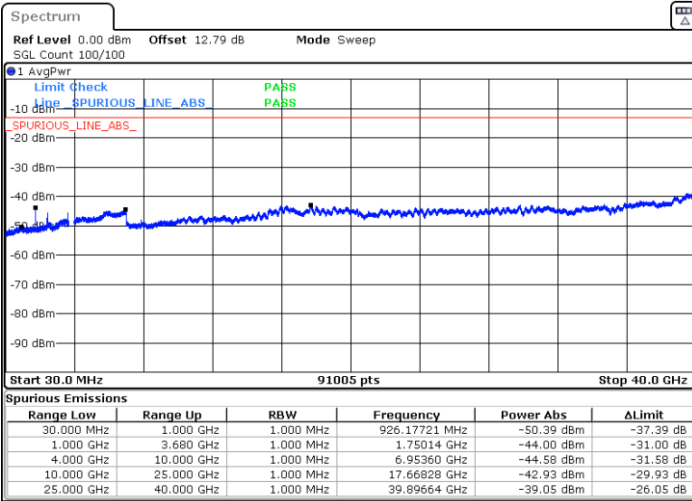
Middle Channel / 1RB1



Date: 27.DEC.2021 18:21:25

Date: 27.DEC.2021 18:23:03

Highest Channel / 1RB1



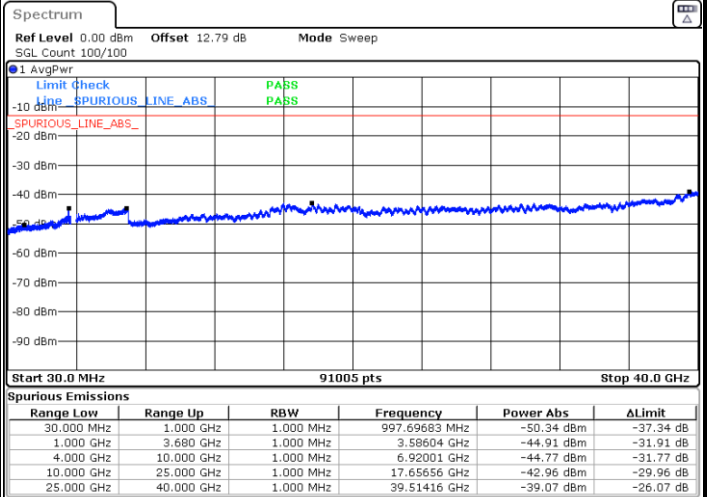
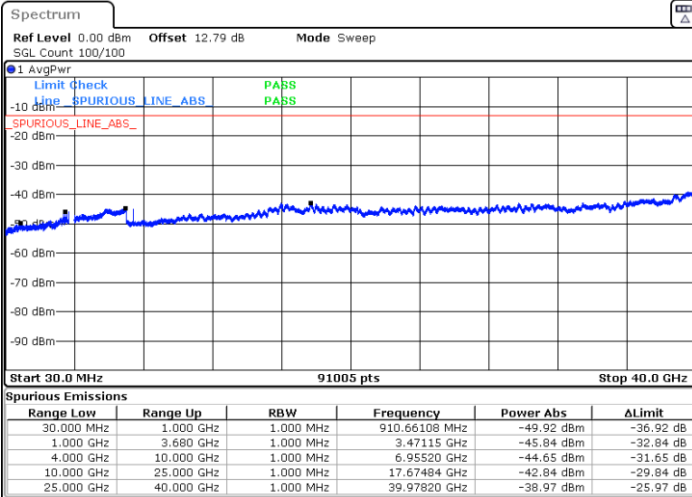
Date: 27.DEC.2021 18:24:45



FR1 n77 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

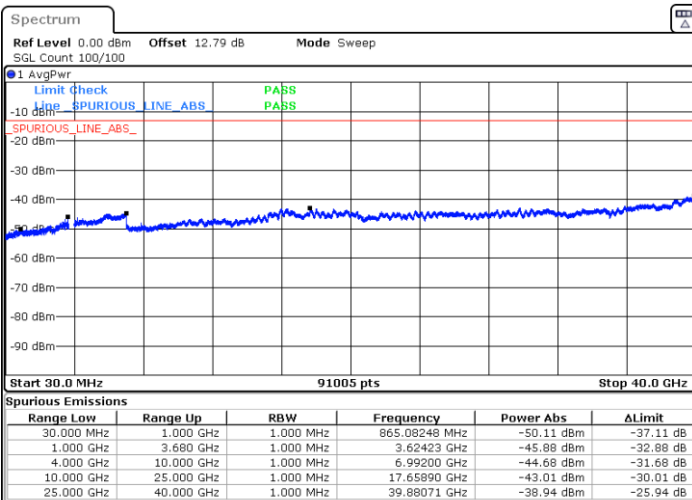
Middle Channel / 1RB1



Date: 27.DEC.2021 19:02:42

Date: 27.DEC.2021 19:04:10

Highest Channel / 1RB1



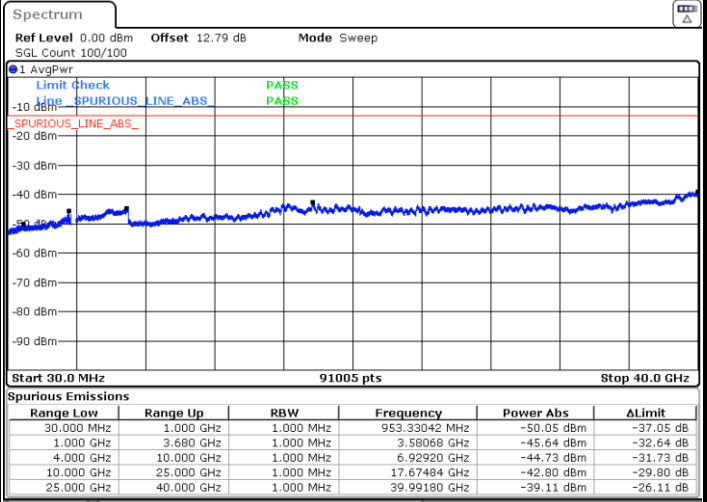
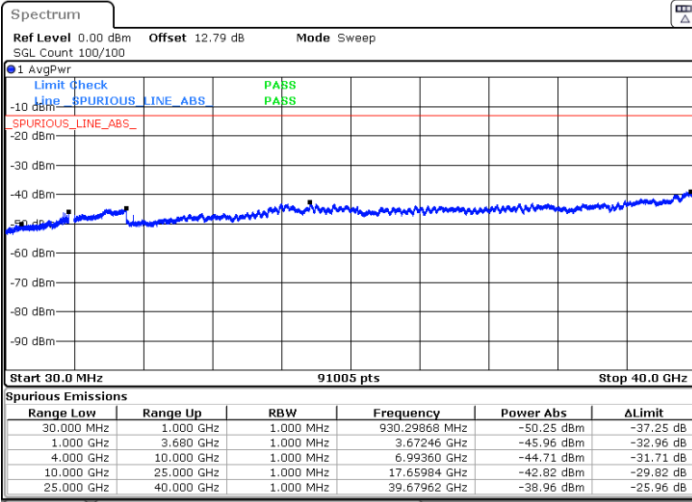
Date: 27.DEC.2021 19:05:38



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

Lowest Channel / 1RB1

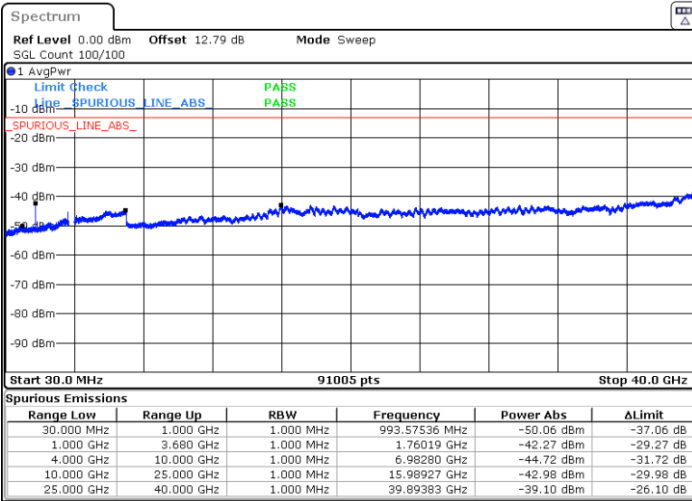
Middle Channel / 1RB1



Date: 27.DEC.2021 19:46:40

Date: 27.DEC.2021 19:53:00

Highest Channel / 1RB1



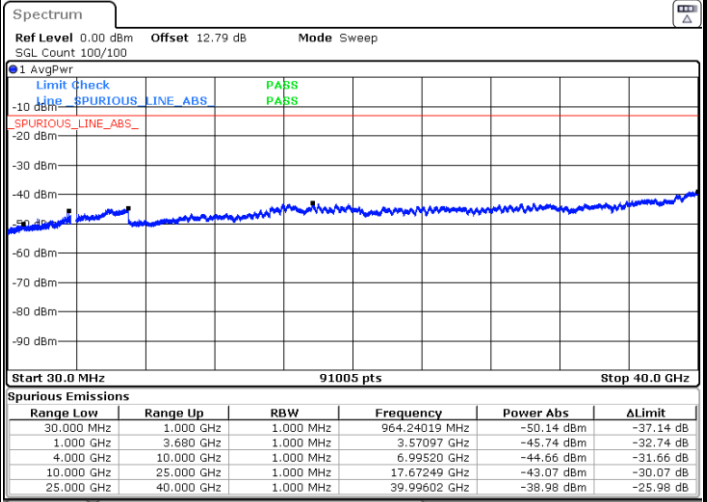
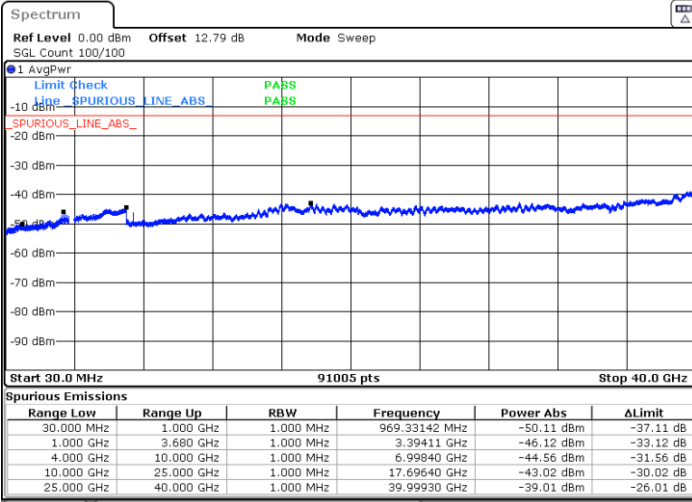
Date: 27.DEC.2021 19:59:25



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

Lowest Channel / 1RB1

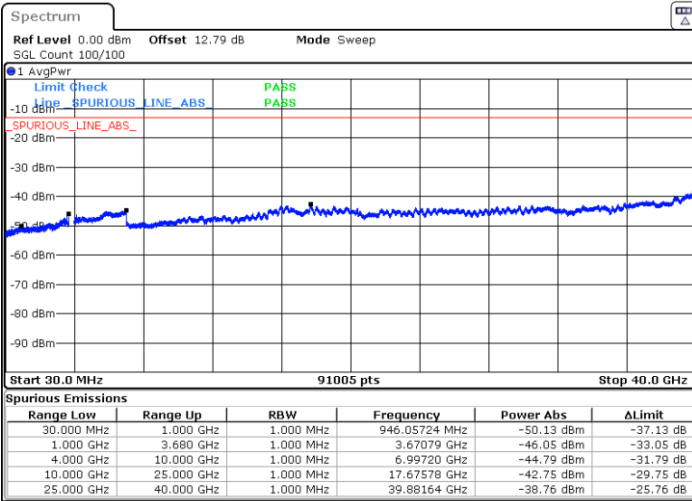
Middle Channel / 1RB1



Date: 27.DEC.2021 20:45:40

Date: 27.DEC.2021 20:47:03

Highest Channel / 1RB1



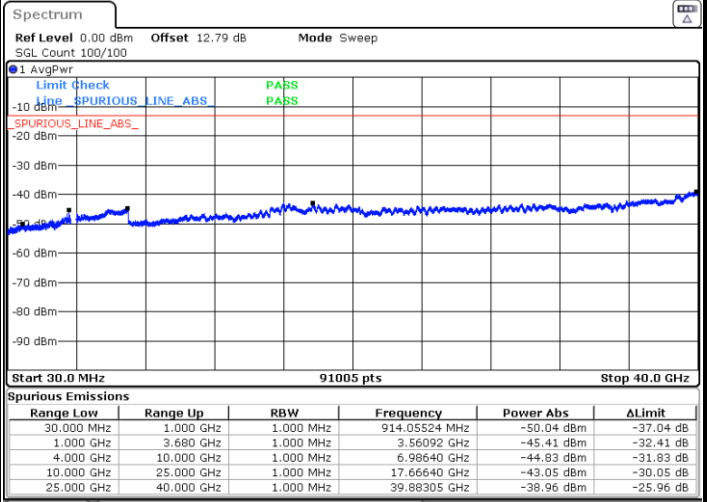
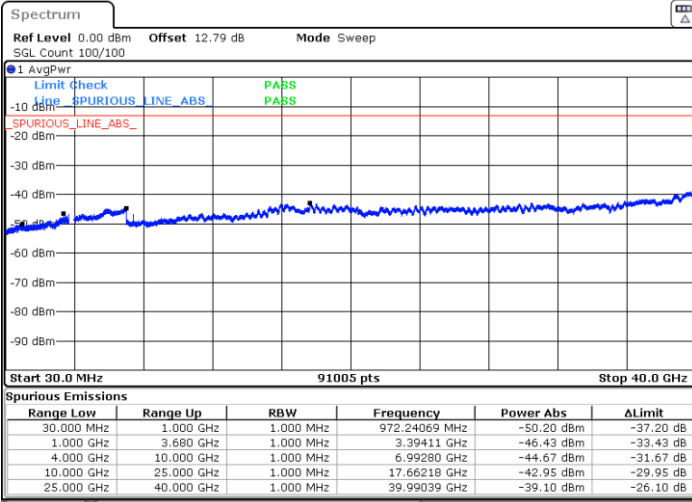
Date: 27.DEC.2021 20:48:28



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

Lowest Channel / 1RB1

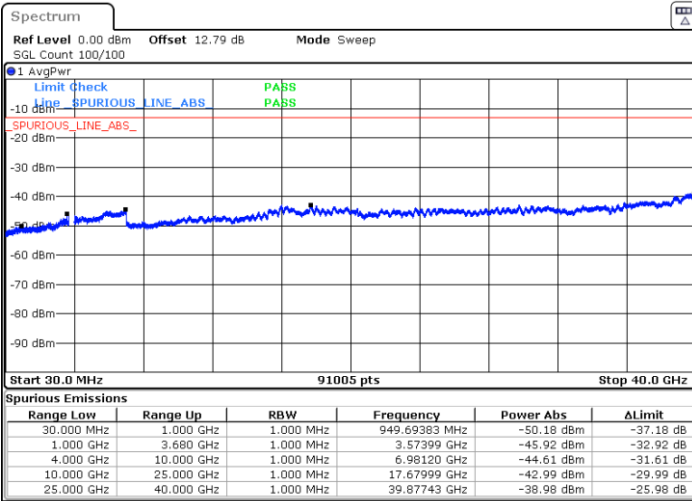
Middle Channel / 1RB1



Date: 27. DEC. 2021 21:27:49

Date: 27. DEC. 2021 21:29:30

Highest Channel / 1RB1



Date: 27. DEC. 2021 21:30:47



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 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

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.

EN-DC_41A_n77 / LTE 20MHz + NR 40MHz / 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	7590	-59.95	-13	-46.95	-70.43	2.76	13.24	H
	11388	-58.19	-13	-45.19	-67.78	3.42	13.01	H
	15180	-55.16	-13	-42.16	-64.77	3.83	13.44	H
	7590	-60.64	-13	-47.64	-71.08	2.80	13.24	V
	11388	-56.88	-13	-43.88	-66.43	3.46	13.01	V
	15180	-55.38	-13	-42.38	-64.94	3.88	13.44	V

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