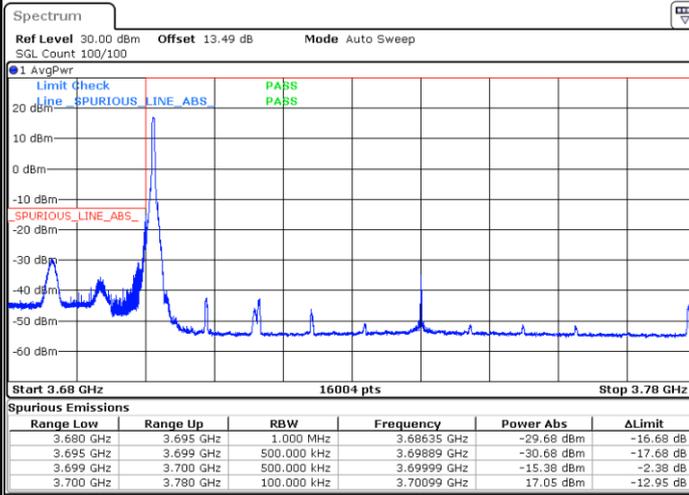




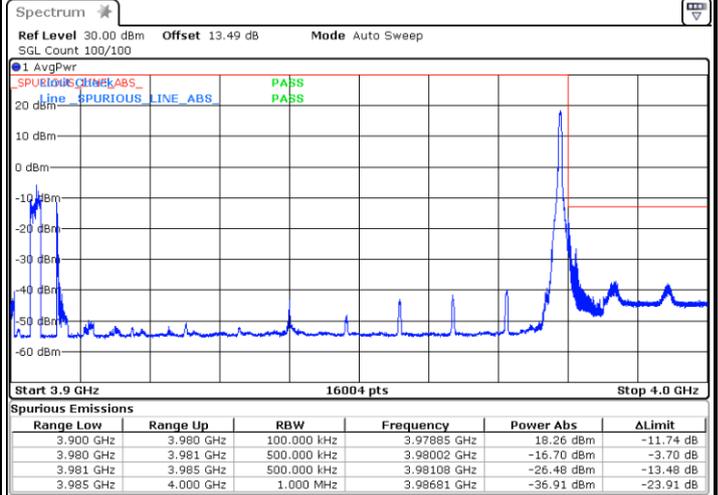
FR1 n77 / 80MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



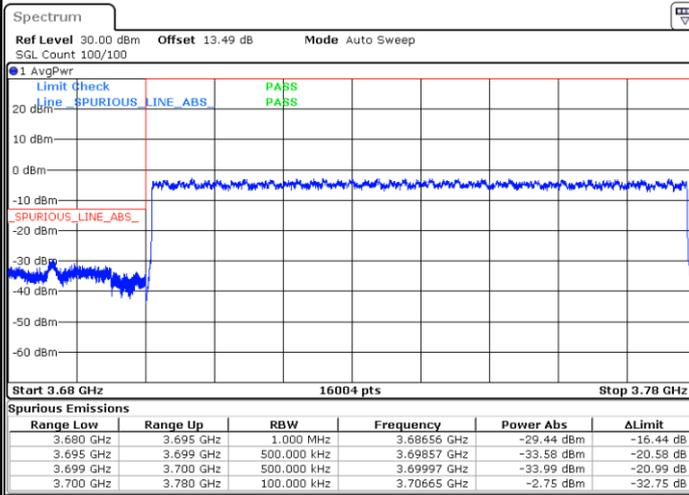
Date: 21 JAN 2021 20:47:55

Highest Band Edge / 1RB24



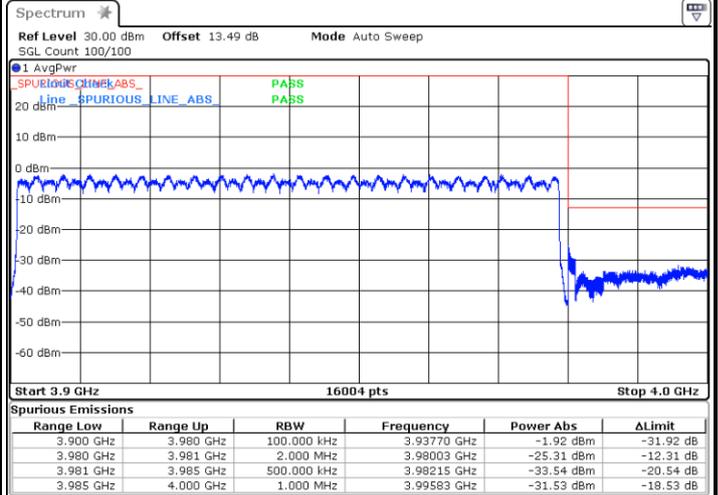
Date: 21 JAN 2021 21:09:37

Lowest Band Edge / Full RB



Date: 21 JAN 2021 20:51:00

Highest Band Edge / Full RB

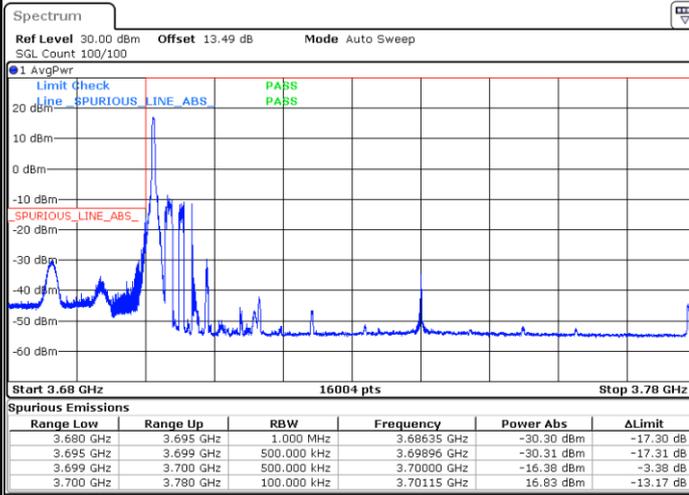


Date: 21 JAN 2021 21:29:43



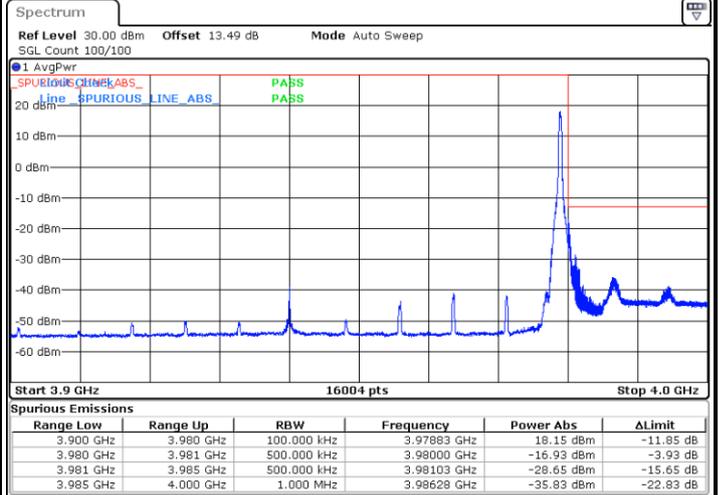
FR1 n77 / 80MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0



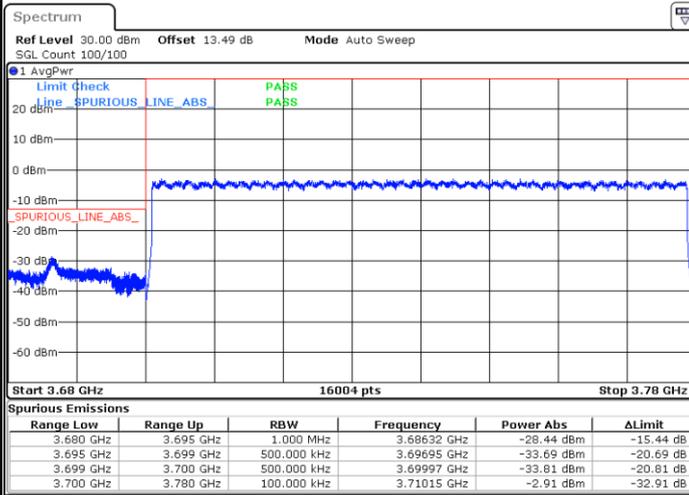
Date: 21 JAN 2021 20:48:45

Highest Band Edge / 1RB24



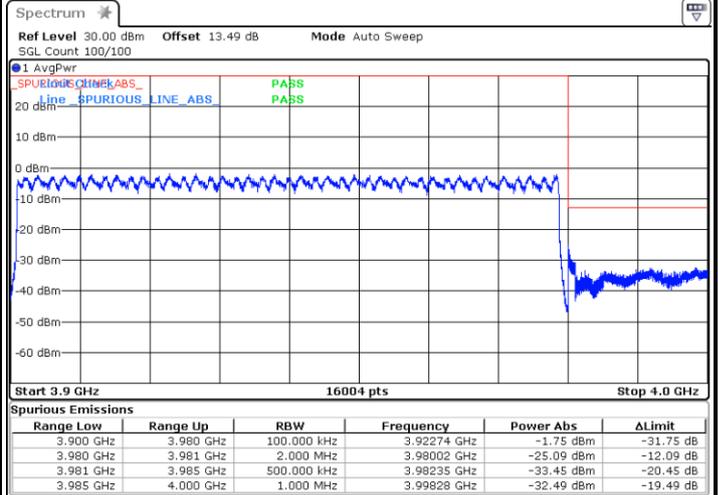
Date: 21 JAN 2021 21:10:13

Lowest Band Edge / Full RB



Date: 21 JAN 2021 20:50:22

Highest Band Edge / Full RB



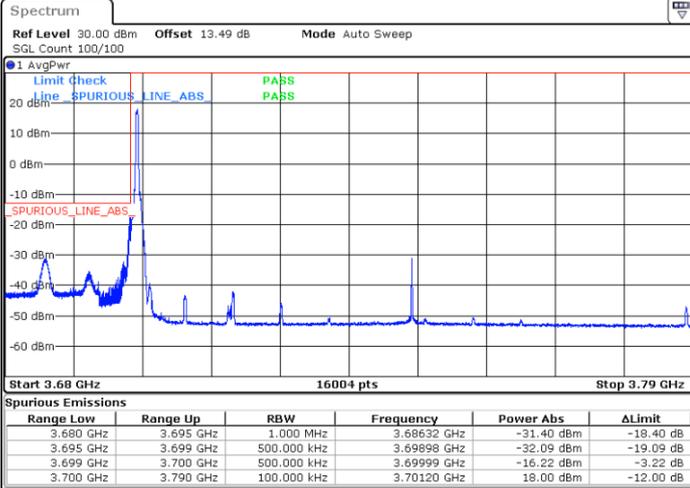
Date: 21 JAN 2021 21:28:45



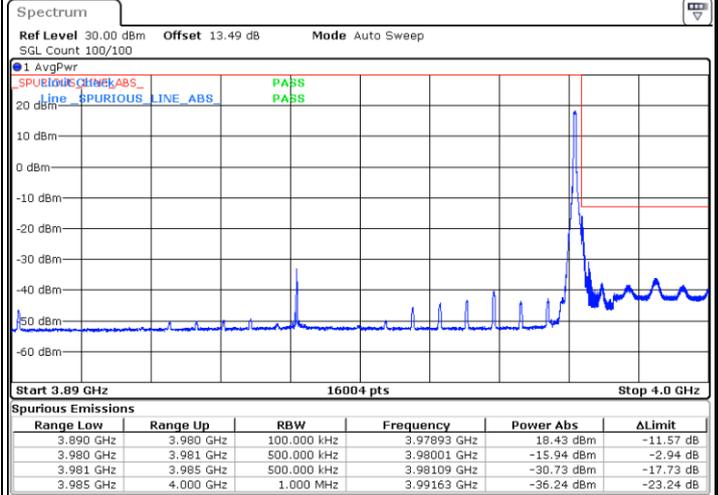
FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



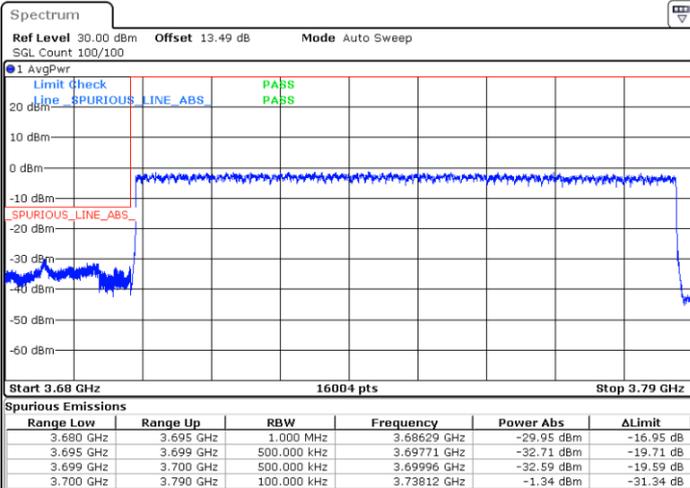
Date: 1.FEB.2021 04:36:35



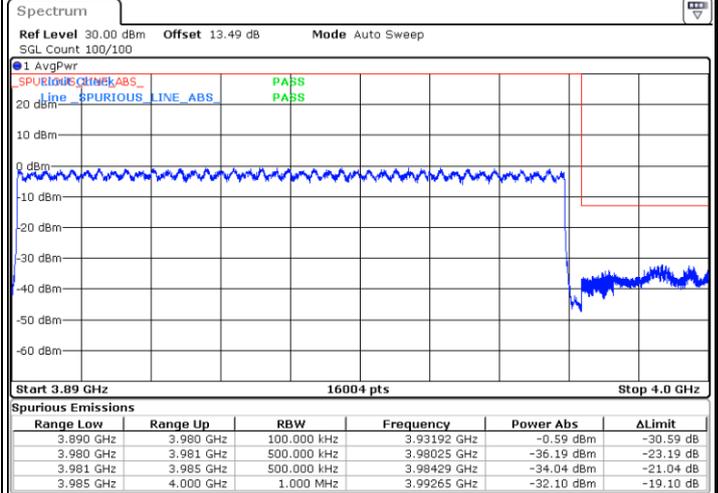
Date: 1.FEB.2021 06:29:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.FEB.2021 04:41:16



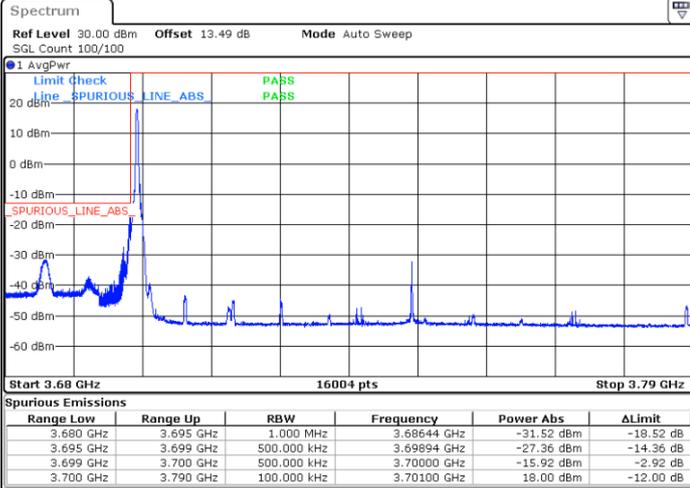
Date: 1.FEB.2021 06:04:08



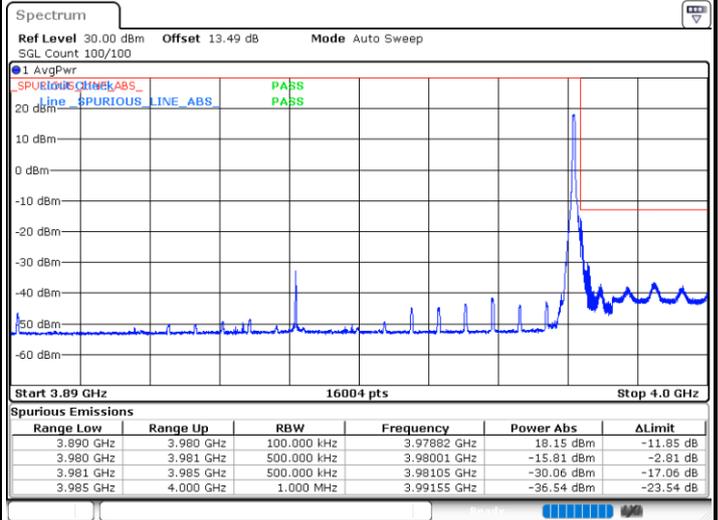
FR1 n77 / 90MHz / DFT-S OFDM / PI/2 QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



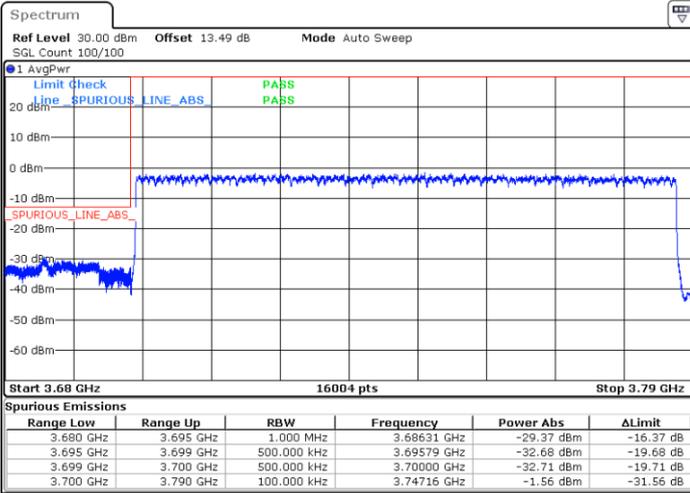
Date: 1.FEB.2021 04:37:16



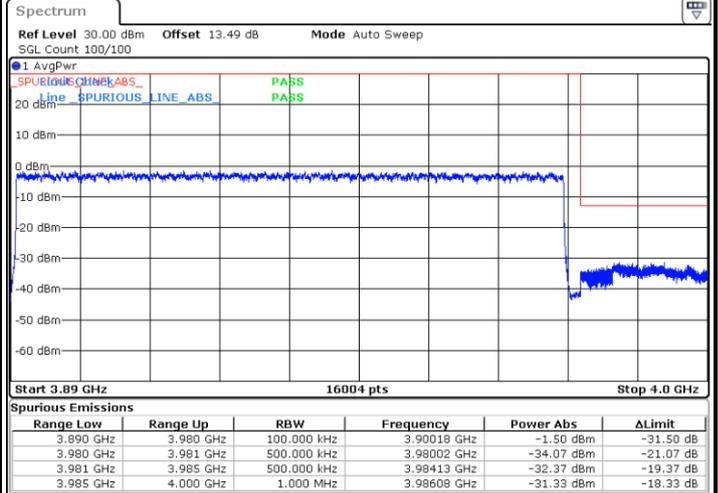
Date: 1.FEB.2021 06:30:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.FEB.2021 04:41:52



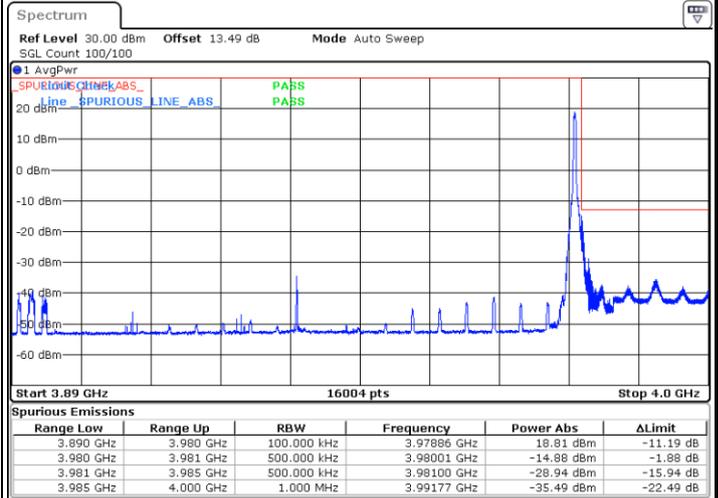
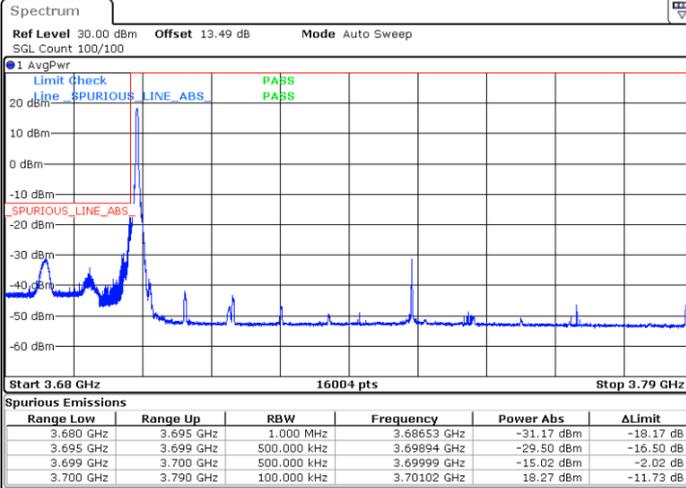
Date: 1.FEB.2021 06:04:54



FR1 n77 / 90MHz / DFT-S OFDM / PI/2 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

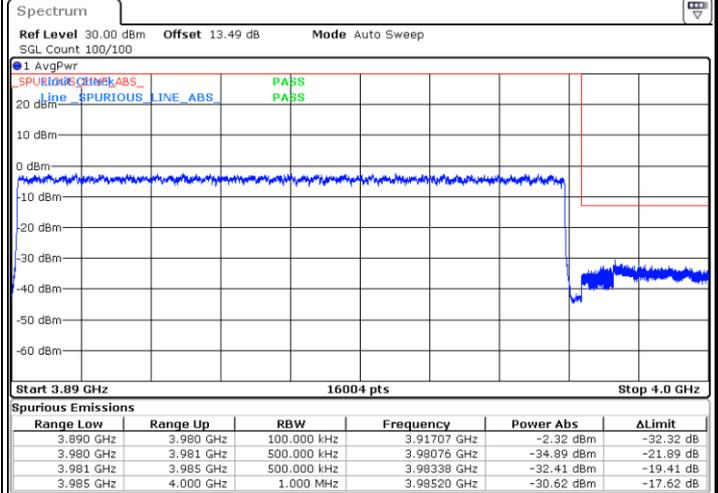
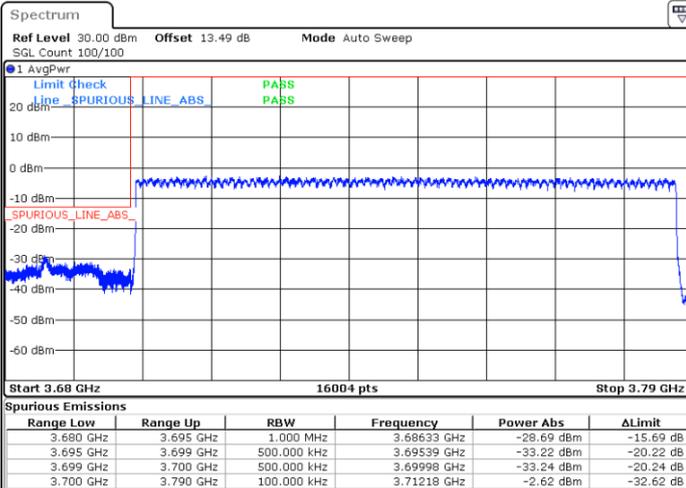


Date: 1.FEB.2021 04:37:57

Date: 1.FEB.2021 06:30:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.FEB.2021 04:52:22

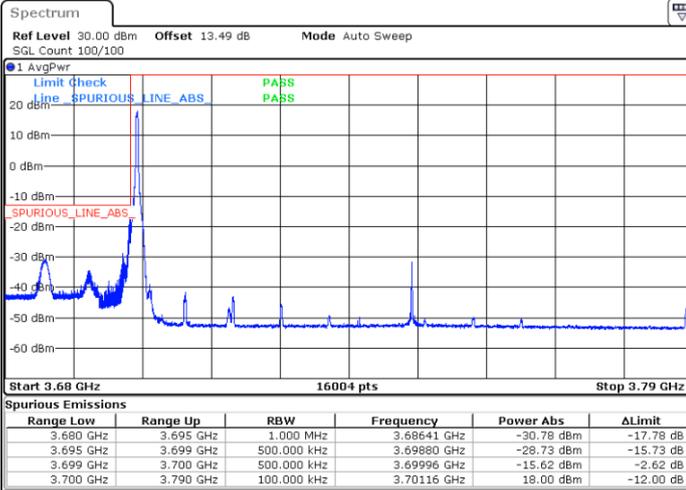
Date: 1.FEB.2021 06:05:54



FR1 n77 / 90MHz / DFT-S OFDM / PI/2 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

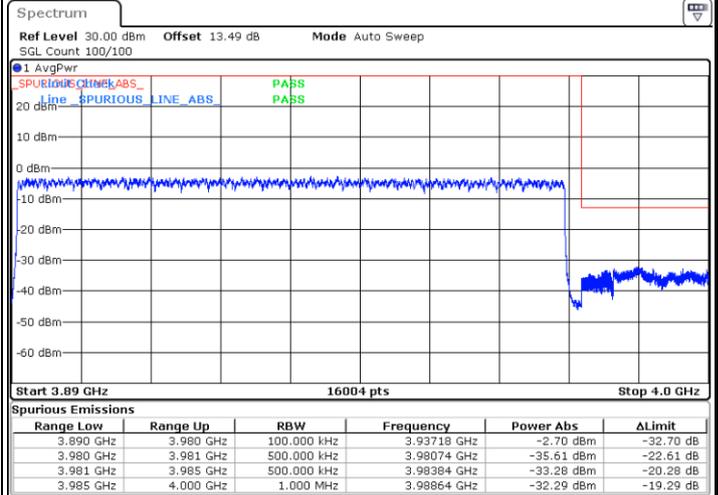
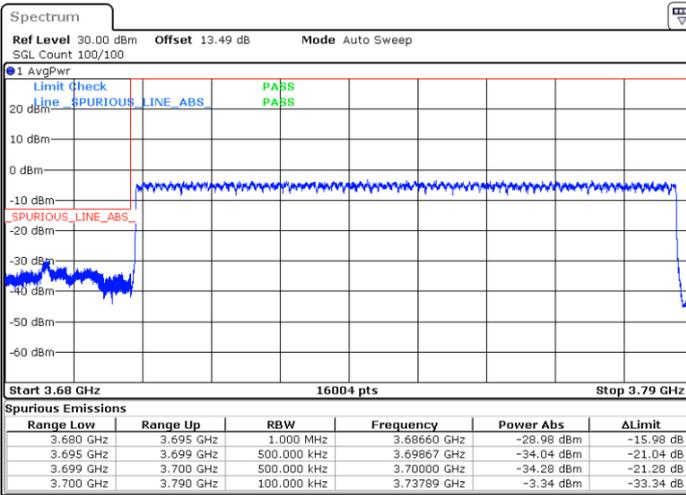


Date: 1.FEB.2021 04:39:39

Date: 1.FEB.2021 06:33:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.FEB.2021 06:01:04

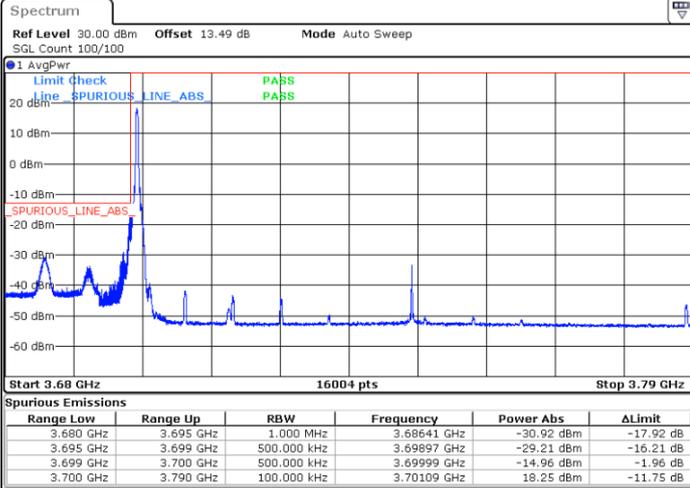
Date: 1.FEB.2021 06:06:33



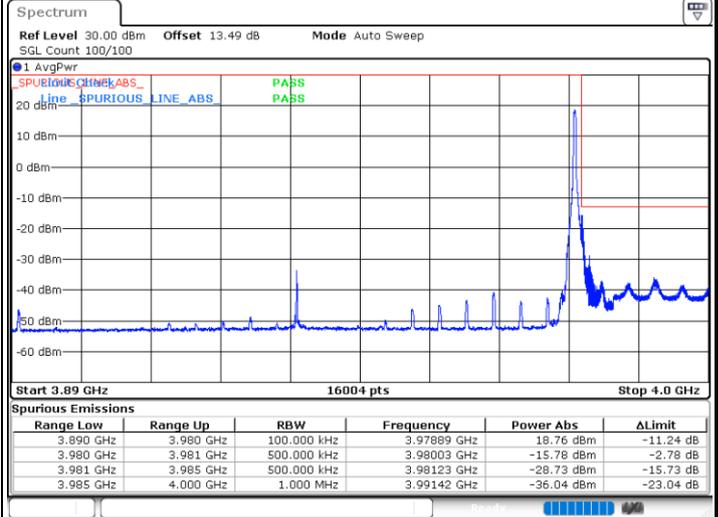
FR1 n77 / 90MHz / DFT-S OFDM / PI/2 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



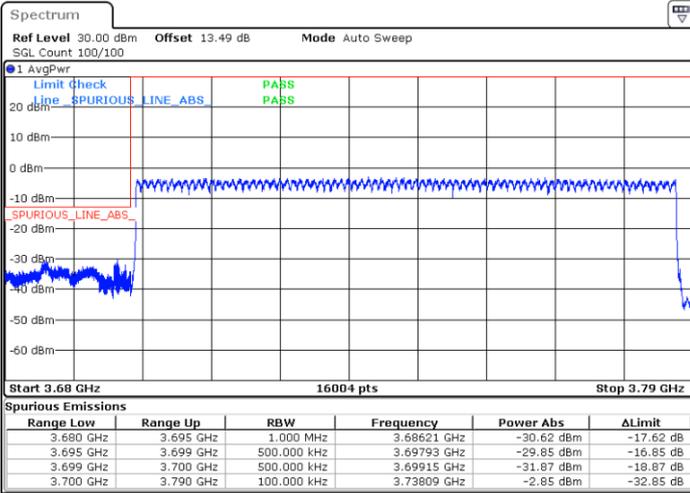
Date: 1.FEB.2021 04:40:14



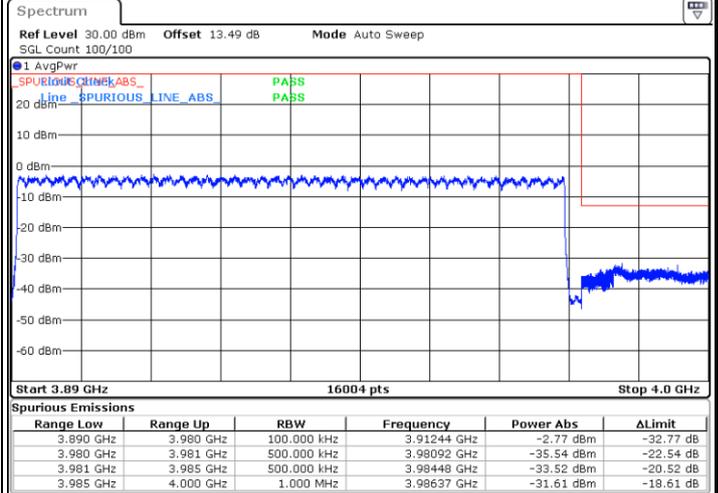
Date: 1.FEB.2021 06:38:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.FEB.2021 06:02:02



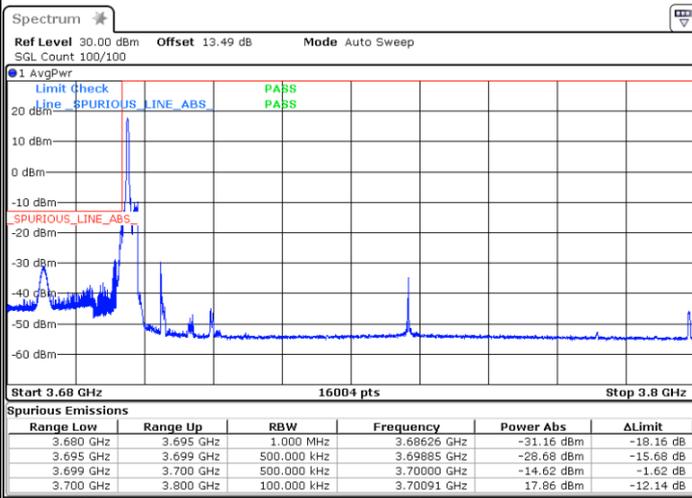
Date: 1.FEB.2021 06:07:08



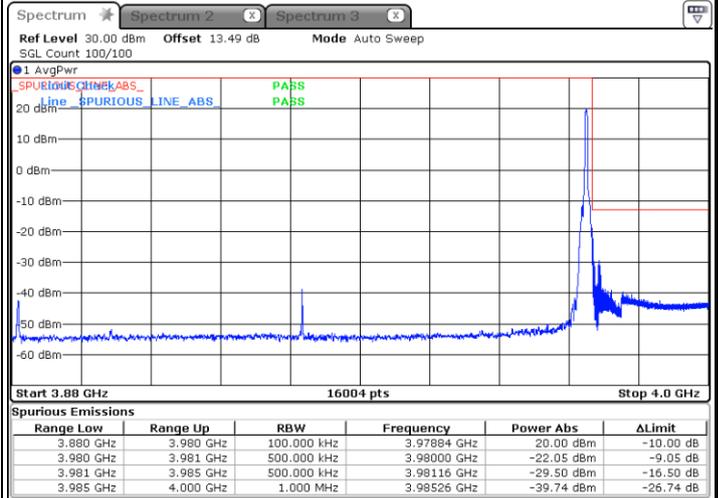
FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



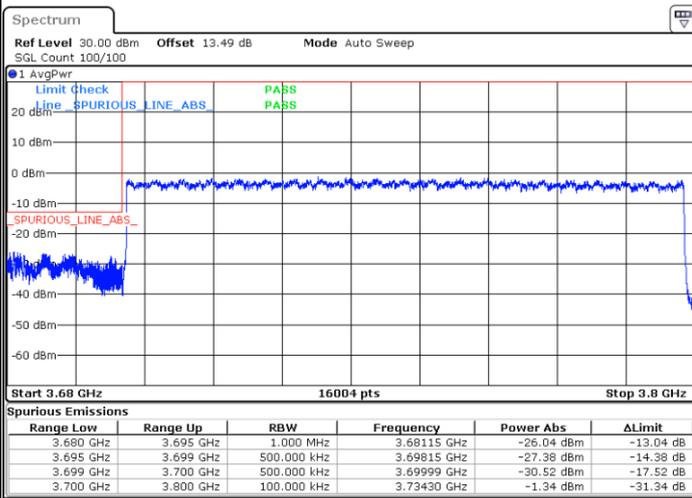
Date: 21 JAN 2021 21:37:38



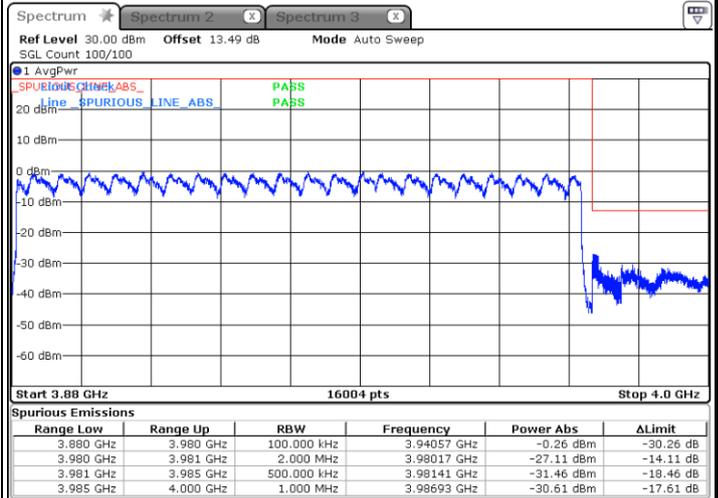
Date: 22 JAN 2021 00:10:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JAN 2021 21:54:14



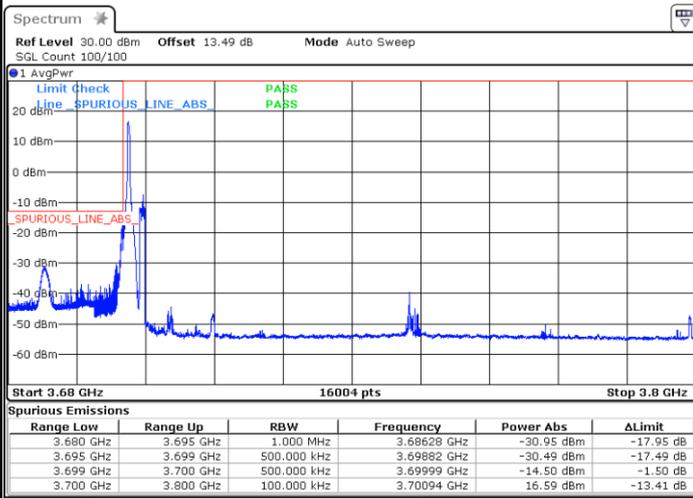
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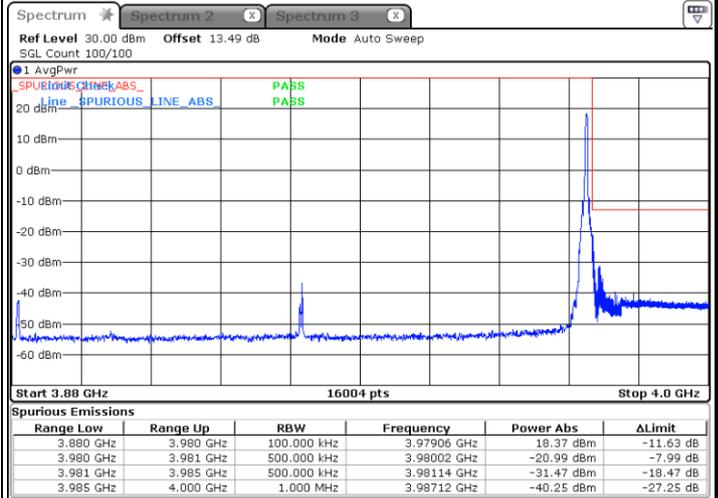
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



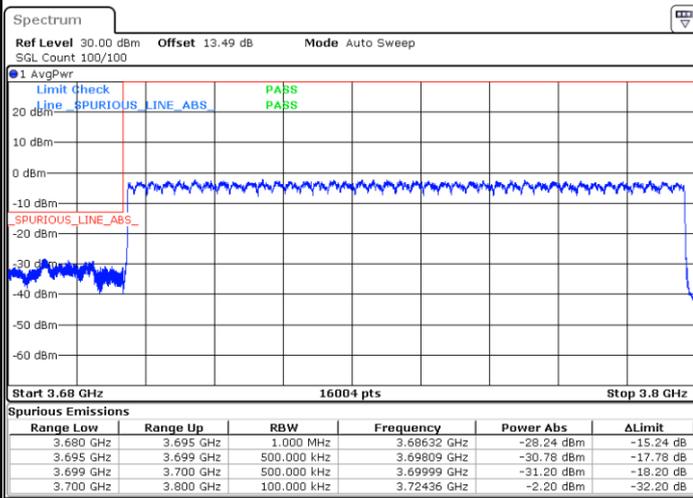
Date: 21 JAN 2021 21:53:06



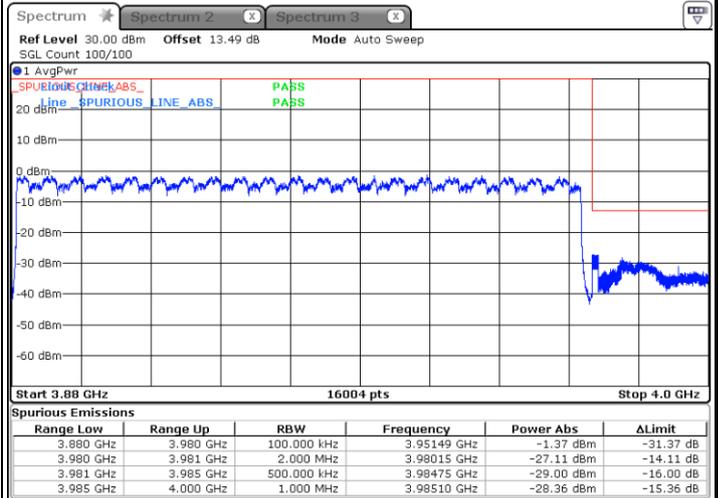
Date: 22 JAN 2021 00:10:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JAN 2021 21:54:59



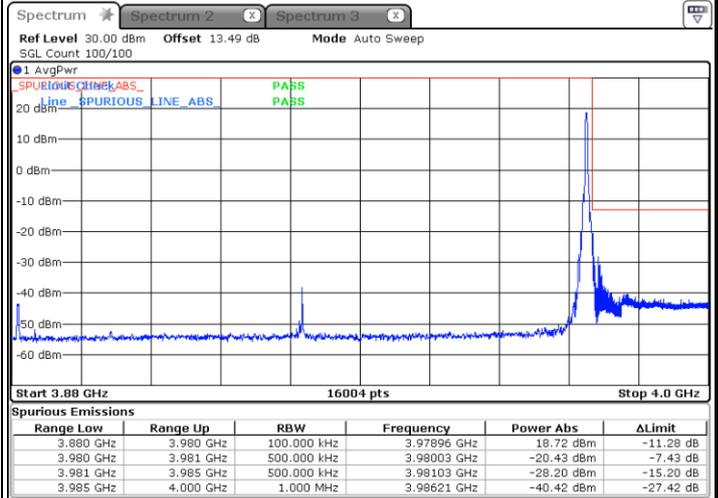
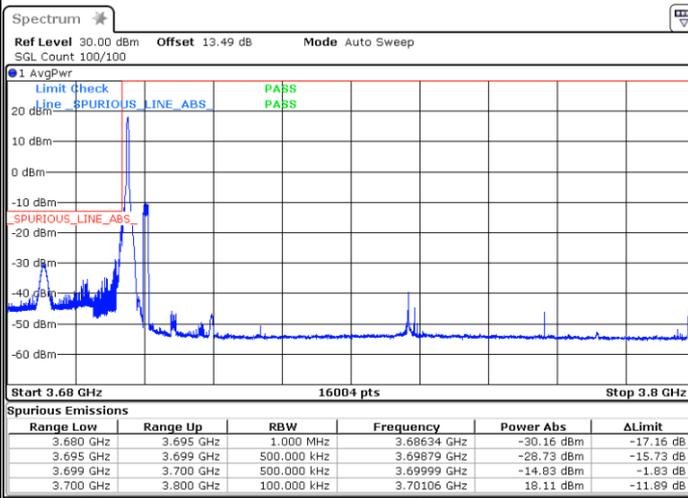
Date: 22 JAN 2021 00:07:27



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

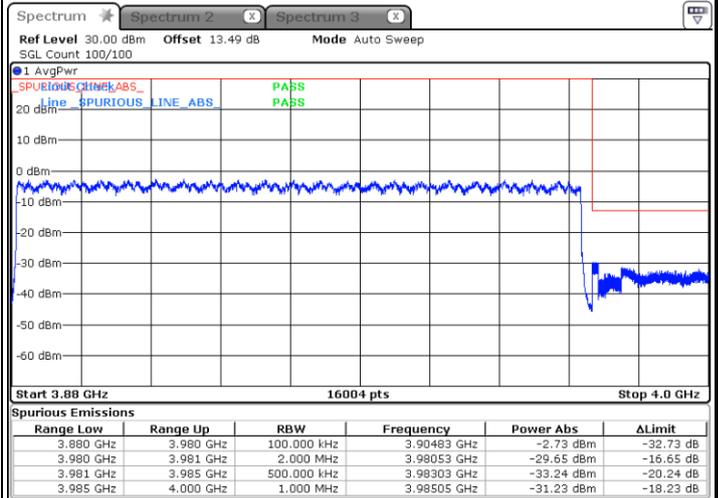
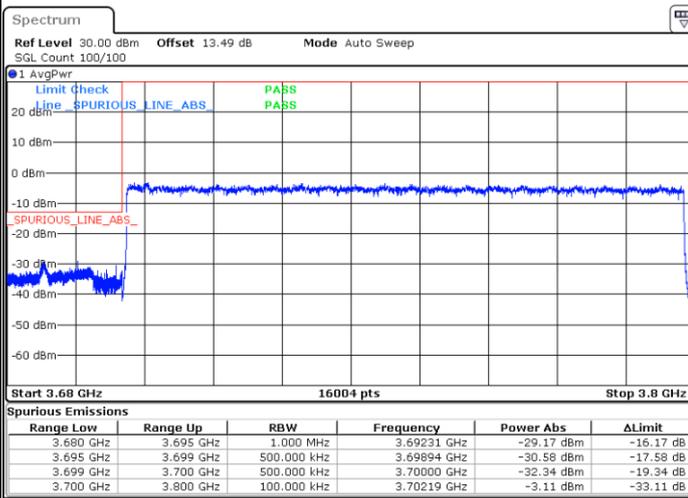


Date: 21 JAN 2021 21:48:54

Date: 22 JAN 2021 00:11:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



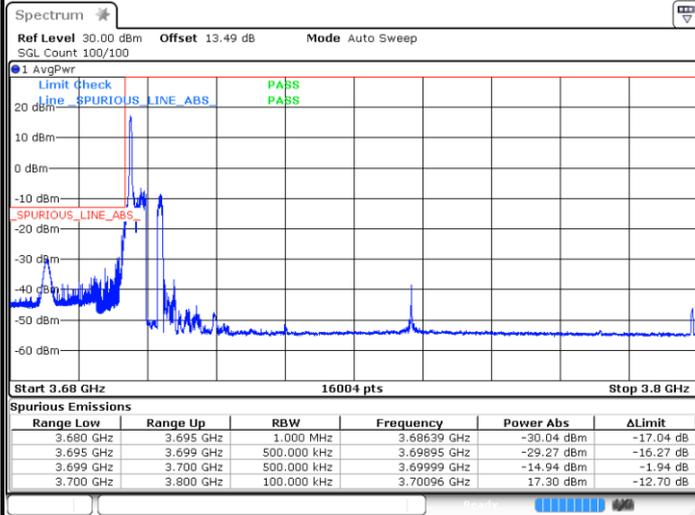
Date: 21 JAN 2021 22:03:25

Date: 22 JAN 2021 00:08:09



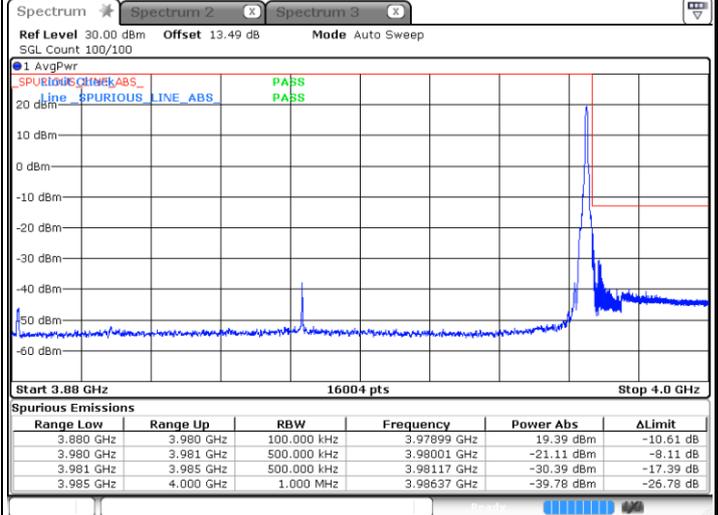
FR1 n77 / 100MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



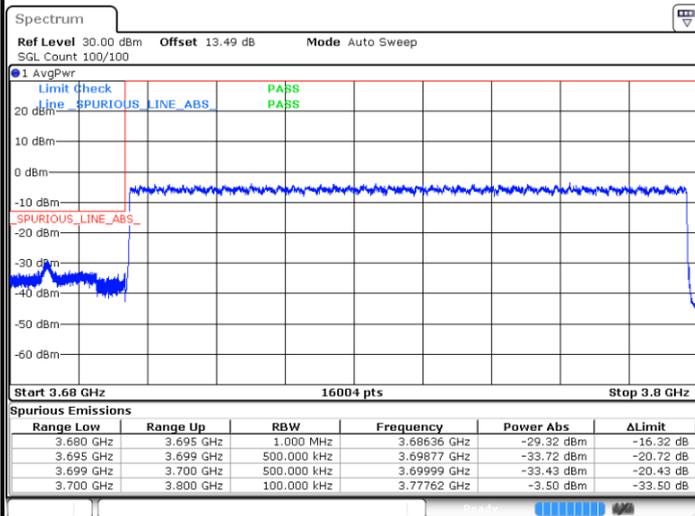
Date: 21 JAN 2021 21:50:22

Highest Band Edge / 1RB24



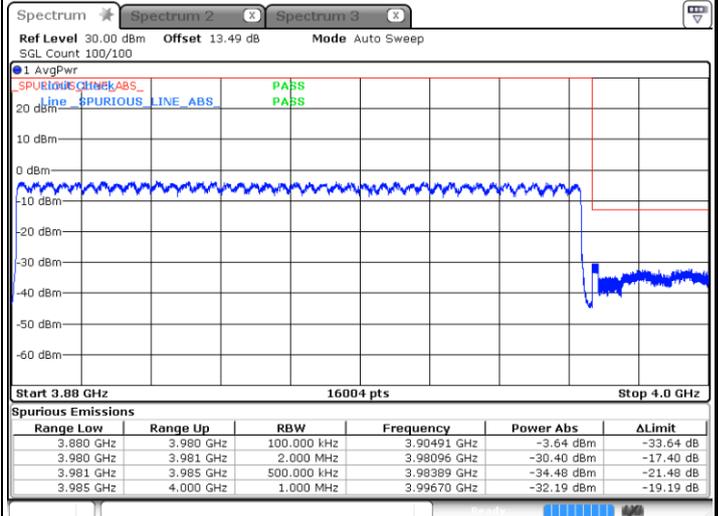
Date: 22 JAN 2021 00:11:43

Lowest Band Edge / Full RB



Date: 21 JAN 2021 22:04:15

Highest Band Edge / Full RB

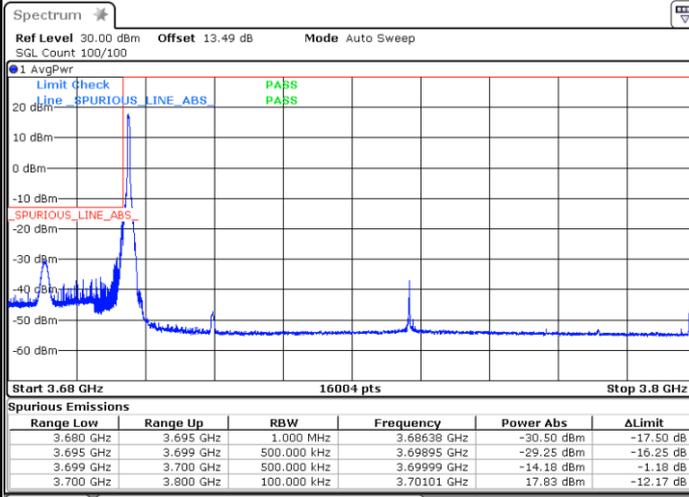


Date: 22 JAN 2021 00:08:49



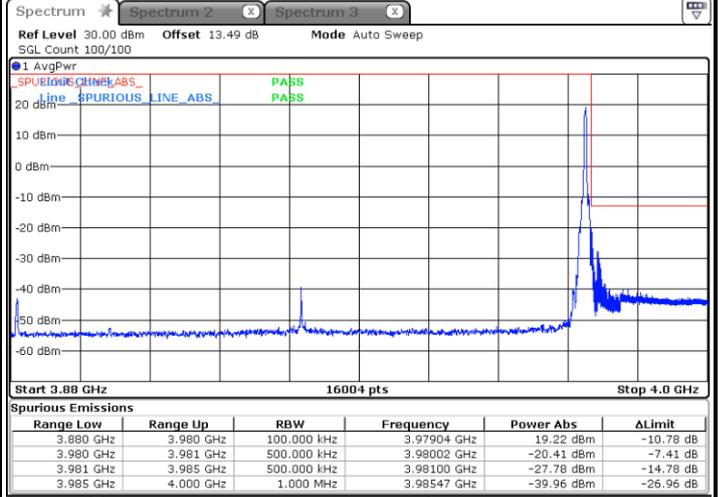
FR1 n77 / 100MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0



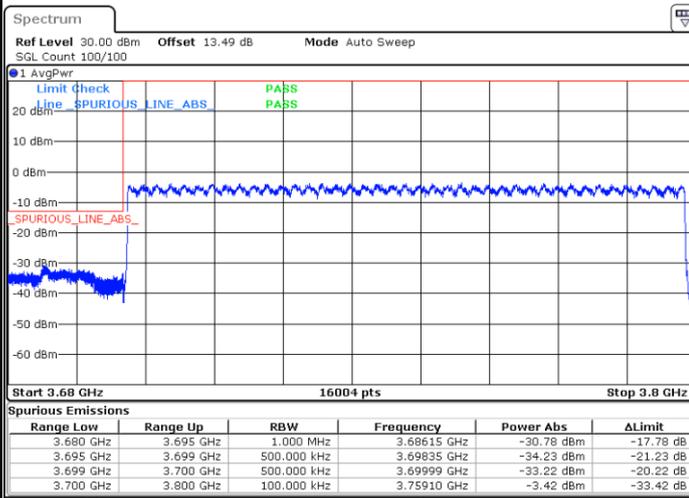
Date: 21 JAN 2021 21:51:20

Highest Band Edge / 1RB24



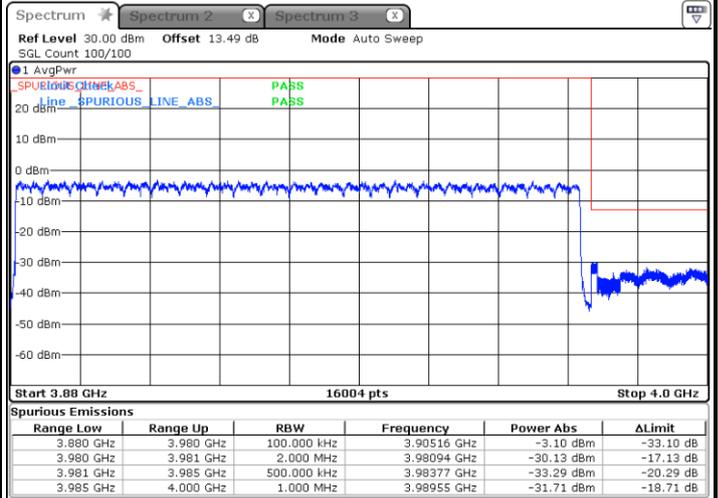
Date: 22 JAN 2021 00:12:08

Lowest Band Edge / Full RB



Date: 21 JAN 2021 22:05:06

Highest Band Edge / Full RB



Date: 22 JAN 2021 00:09:32

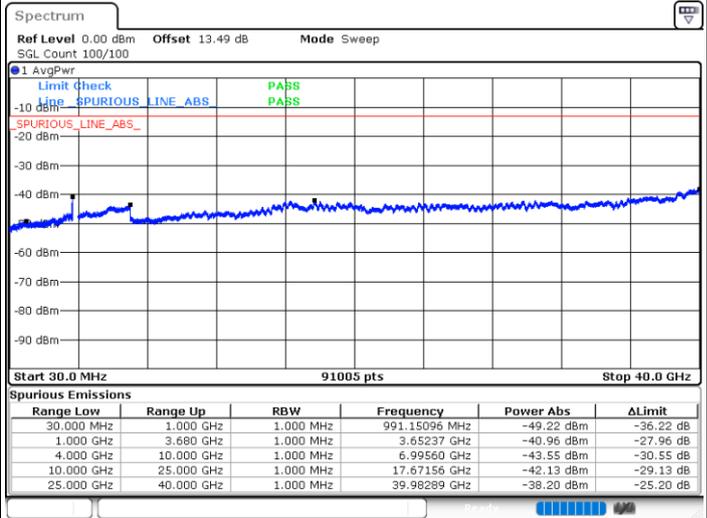
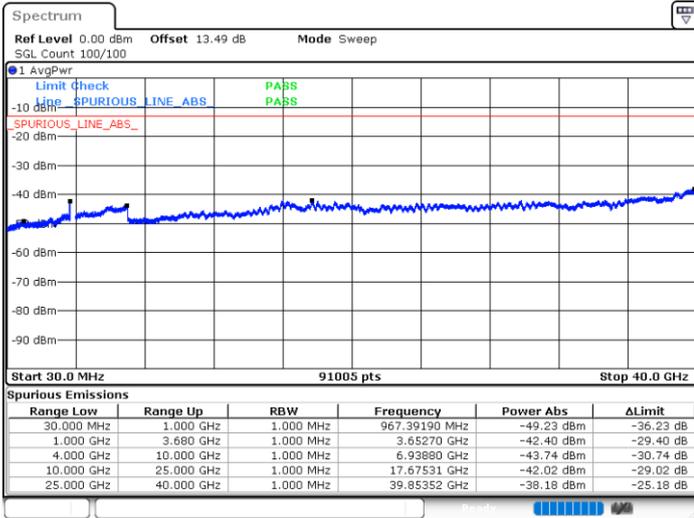


Conducted Spurious Emission

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

Lowest Channel / 1RB1

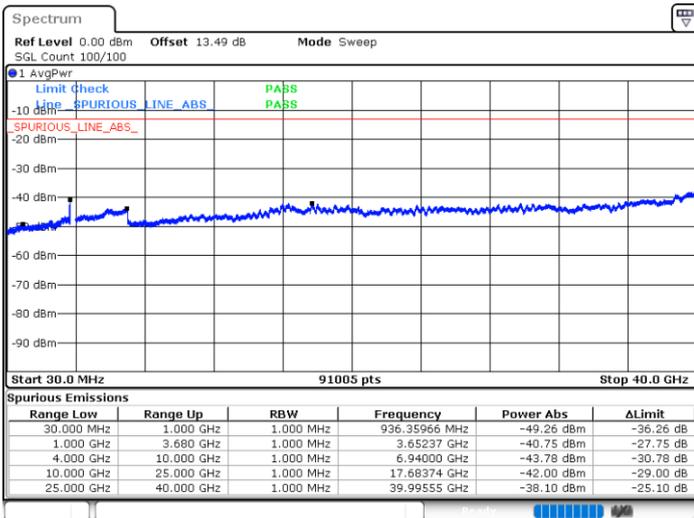
Middle Channel / 1RB1



Date: 26.JAN.2021 11:56:55

Date: 26.JAN.2021 11:58:05

Highest Channel / 1RB1



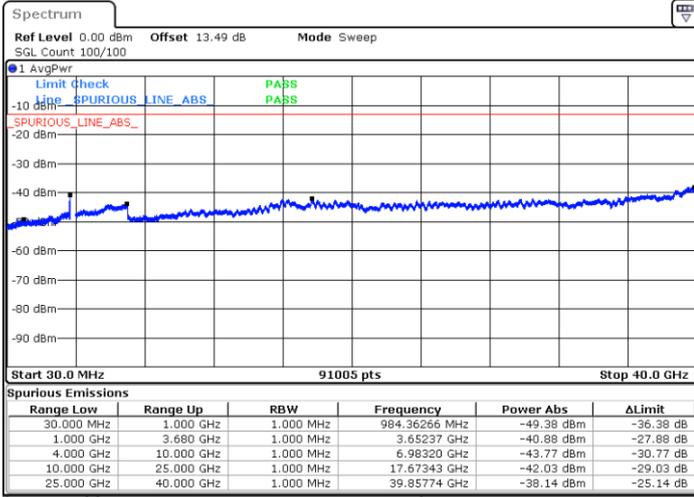
Date: 26.JAN.2021 11:59:12



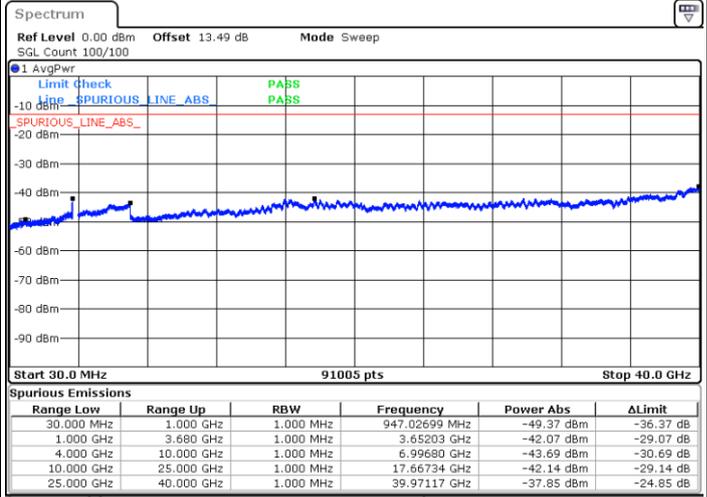
FR1 n77 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

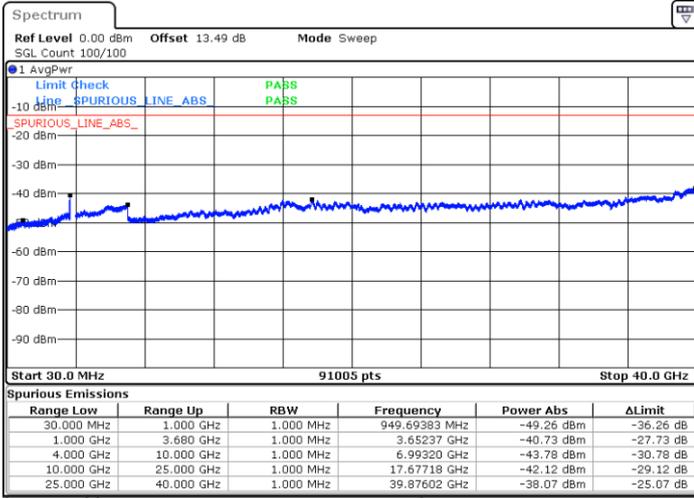


Date: 26.JAN.2021 11:48:56



Date: 26.JAN.2021 11:50:03

Highest Channel / 1RB1



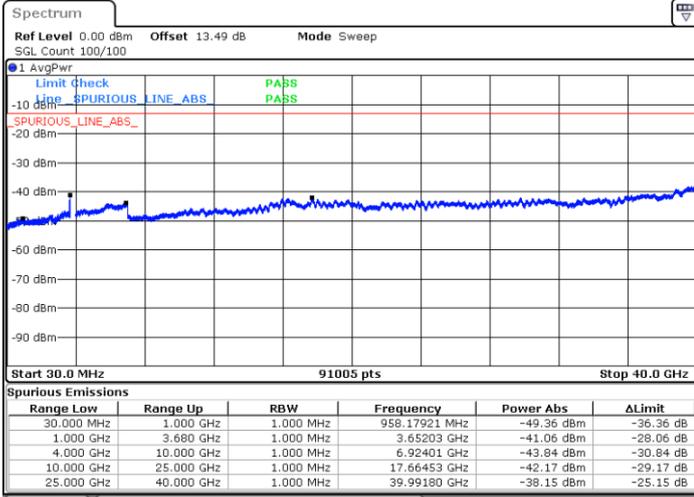
Date: 26.JAN.2021 11:51:12



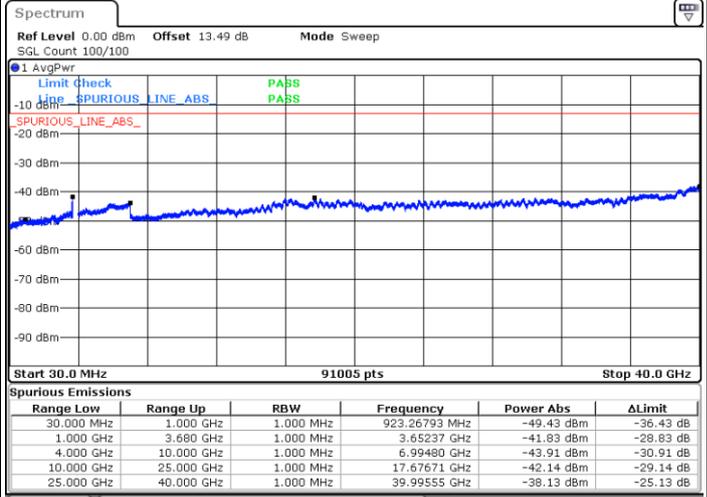
FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

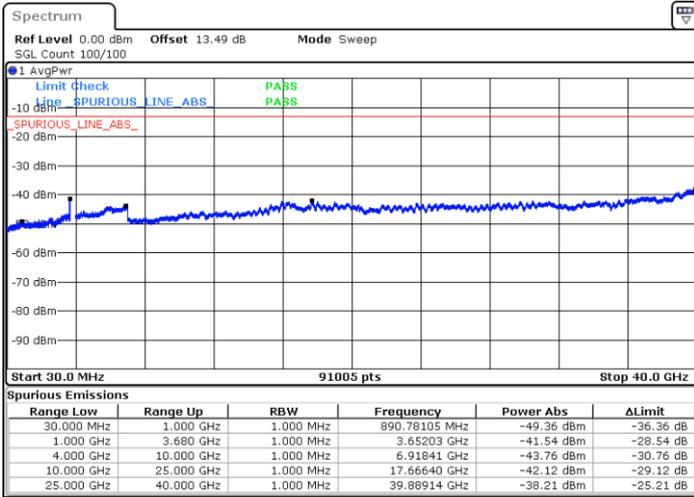


Date: 26.JAN.2021 11:55:29



Date: 26.JAN.2021 11:54:16

Highest Channel / 1RB1



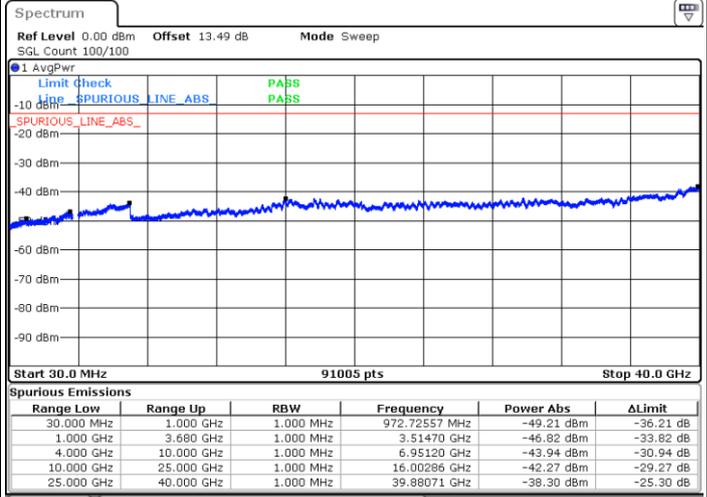
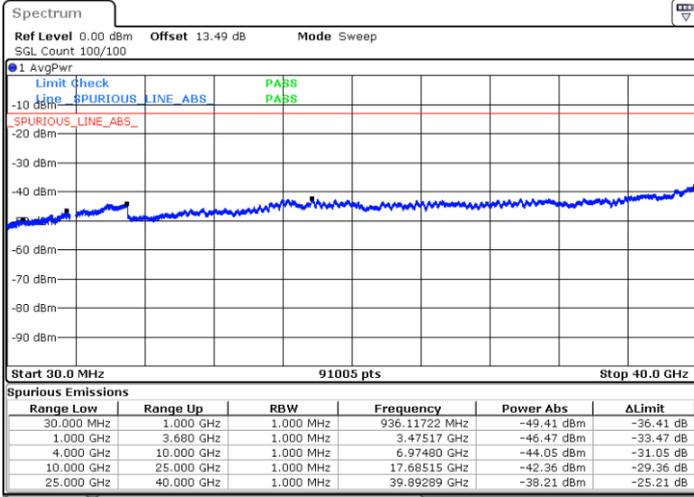
Date: 26.JAN.2021 11:53:10



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

Lowest Channel / 1RB1

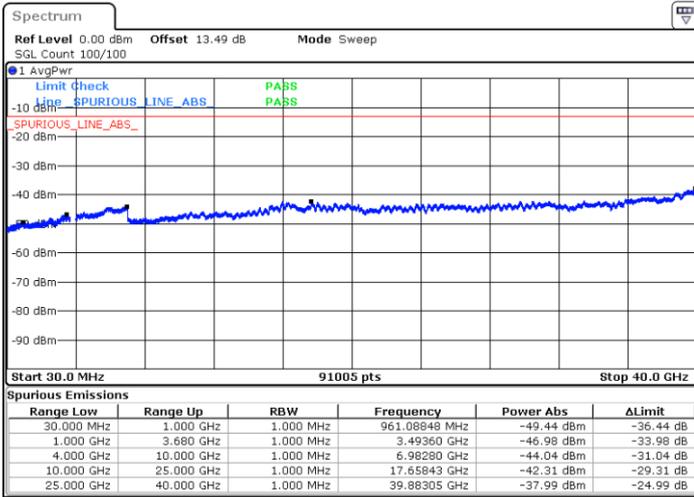
Middle Channel / 1RB1



Date: 1.FEB.2021 07:33:46

Date: 1.FEB.2021 07:32:37

Highest Channel / 1RB1



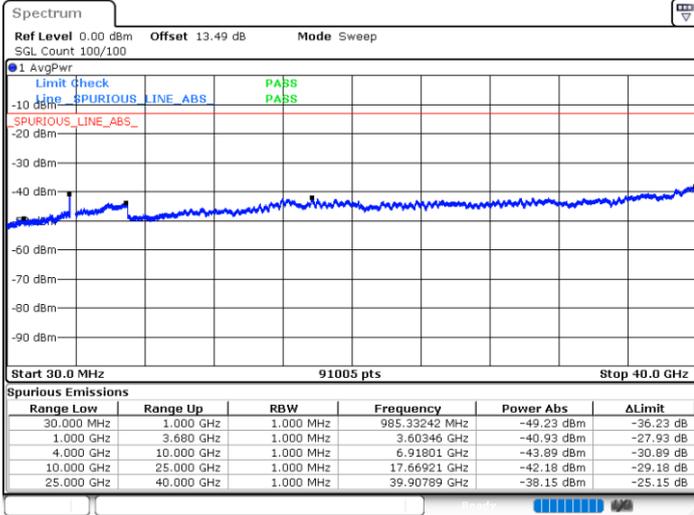
Date: 1.FEB.2021 07:31:21



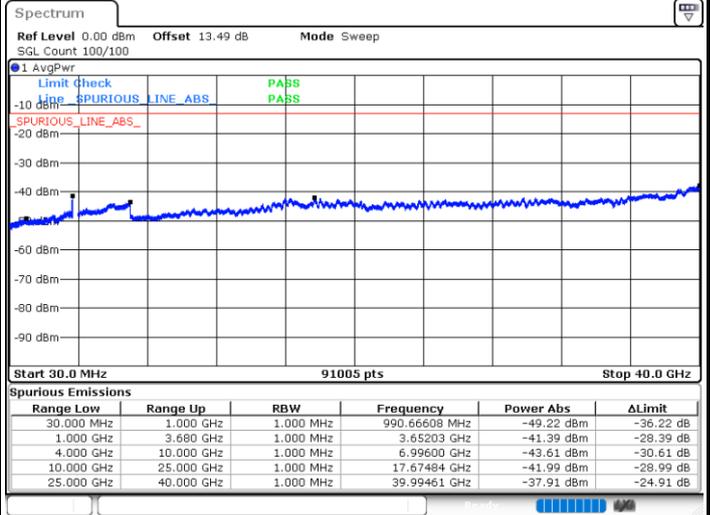
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

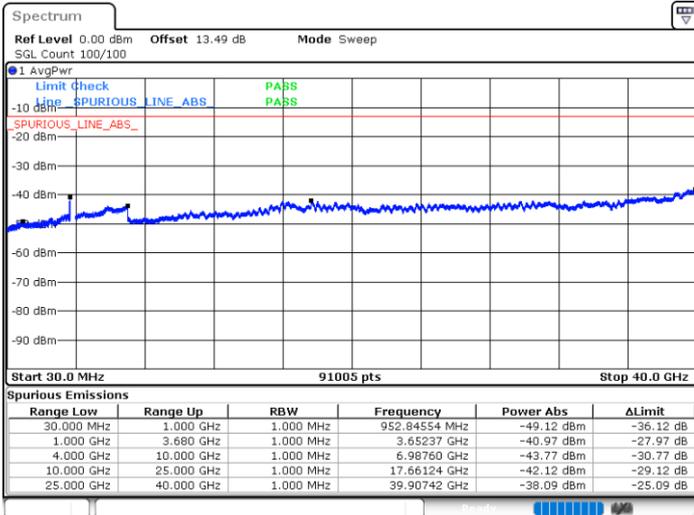


Date: 26.JAN.2021 11:45:26



Date: 26.JAN.2021 11:46:32

Highest Channel / 1RB1



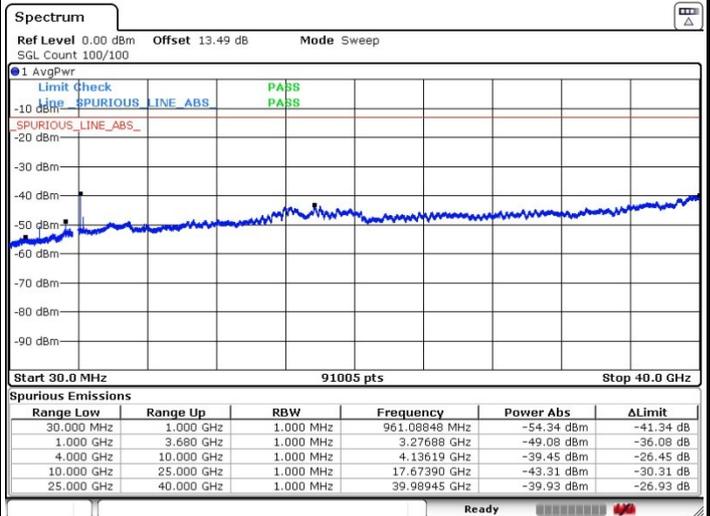
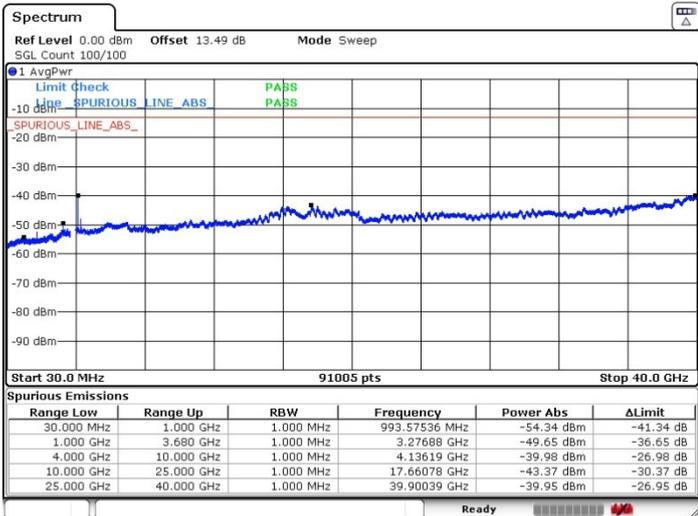
Date: 26.JAN.2021 11:47:38



FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

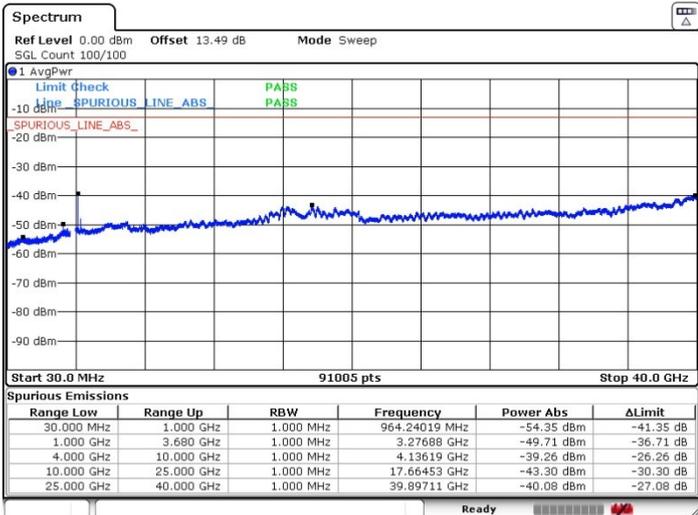
Middle Channel / 1RB1



Date: 1.FEB.2021 11:15:22

Date: 1.FEB.2021 11:16:26

Highest Channel / 1RB1



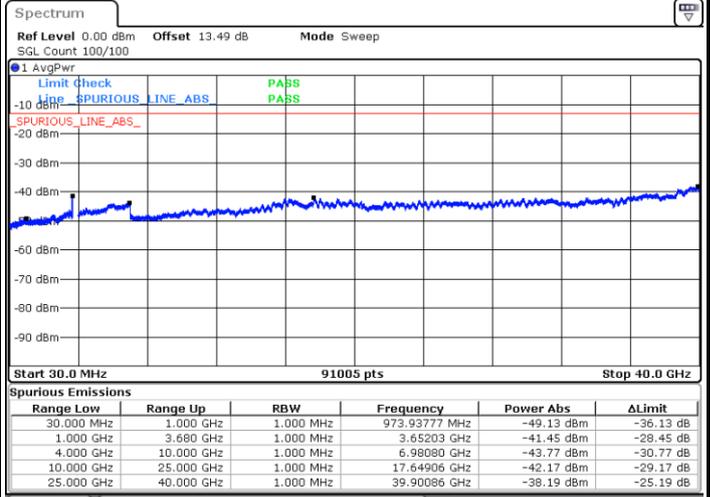
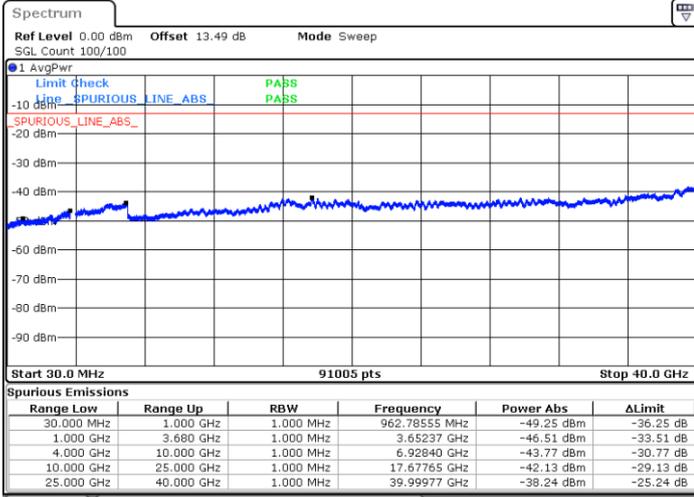
Date: 1.FEB.2021 11:17:30



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

Lowest Channel / 1RB1

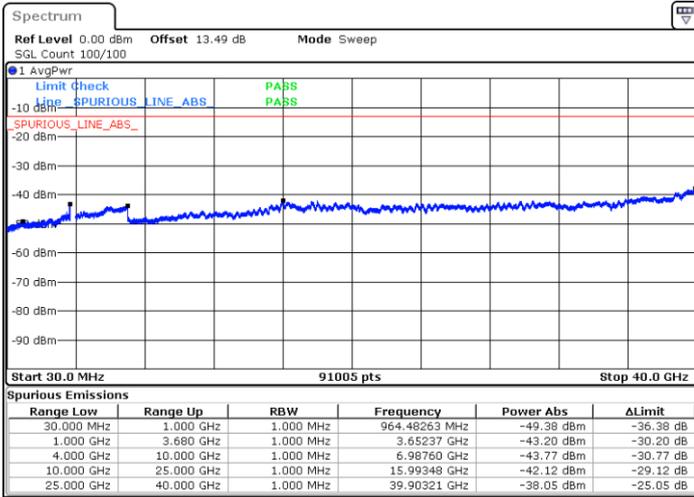
Middle Channel / 1RB1



Date: 26.JAN.2021 11:41:57

Date: 26.JAN.2021 11:43:04

Highest Channel / 1RB1



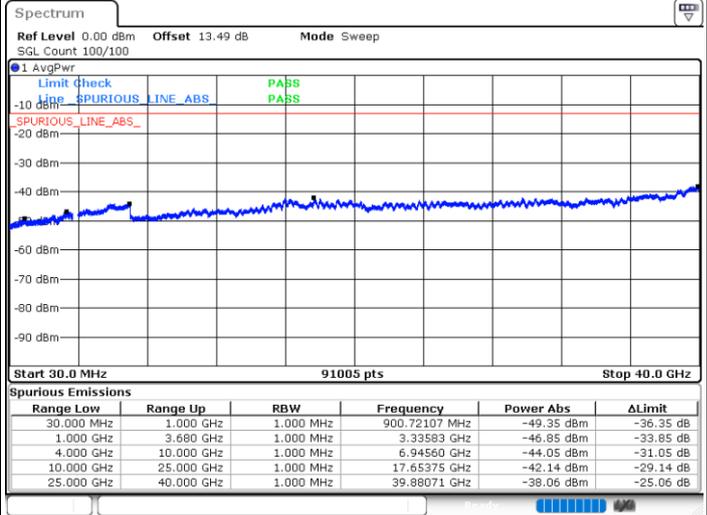
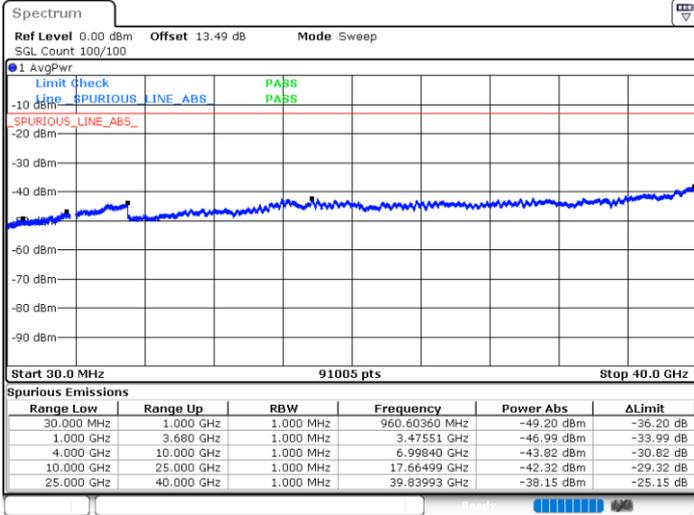
Date: 26.JAN.2021 11:44:10



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

Lowest Channel / 1RB1

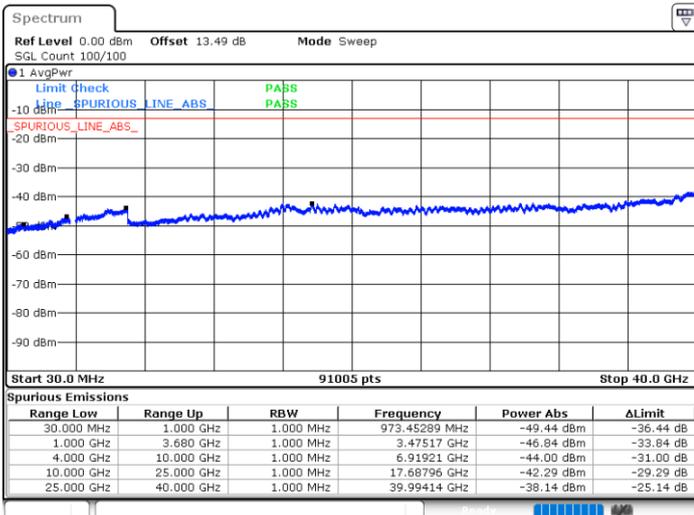
Middle Channel / 1RB1



Date: 1.FEB.2021 06:40:55

Date: 1.FEB.2021 06:42:23

Highest Channel / 1RB1



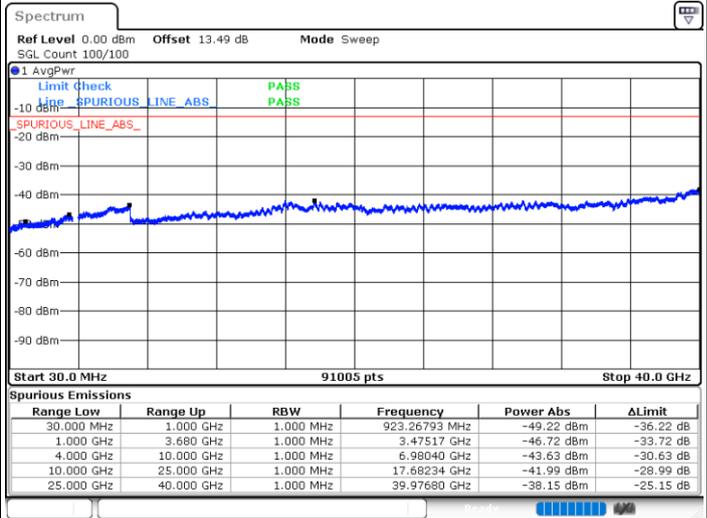
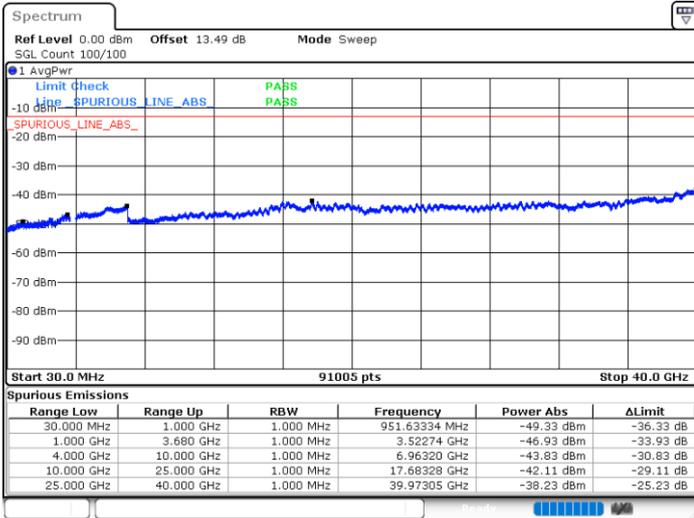
Date: 1.FEB.2021 06:43:31



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

Lowest Channel / 1RB1

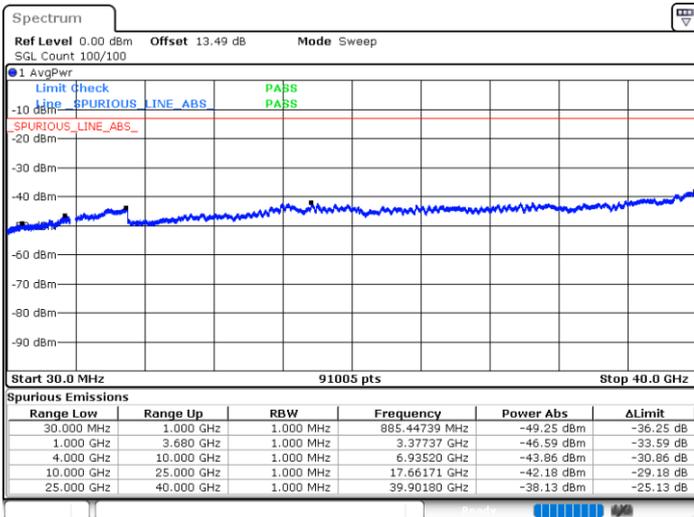
Middle Channel / 1RB1



Date: 26.JAN.2021 11:28:22

Date: 26.JAN.2021 11:37:52

Highest Channel / 1RB1



Date: 26.JAN.2021 11:40:14



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

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.

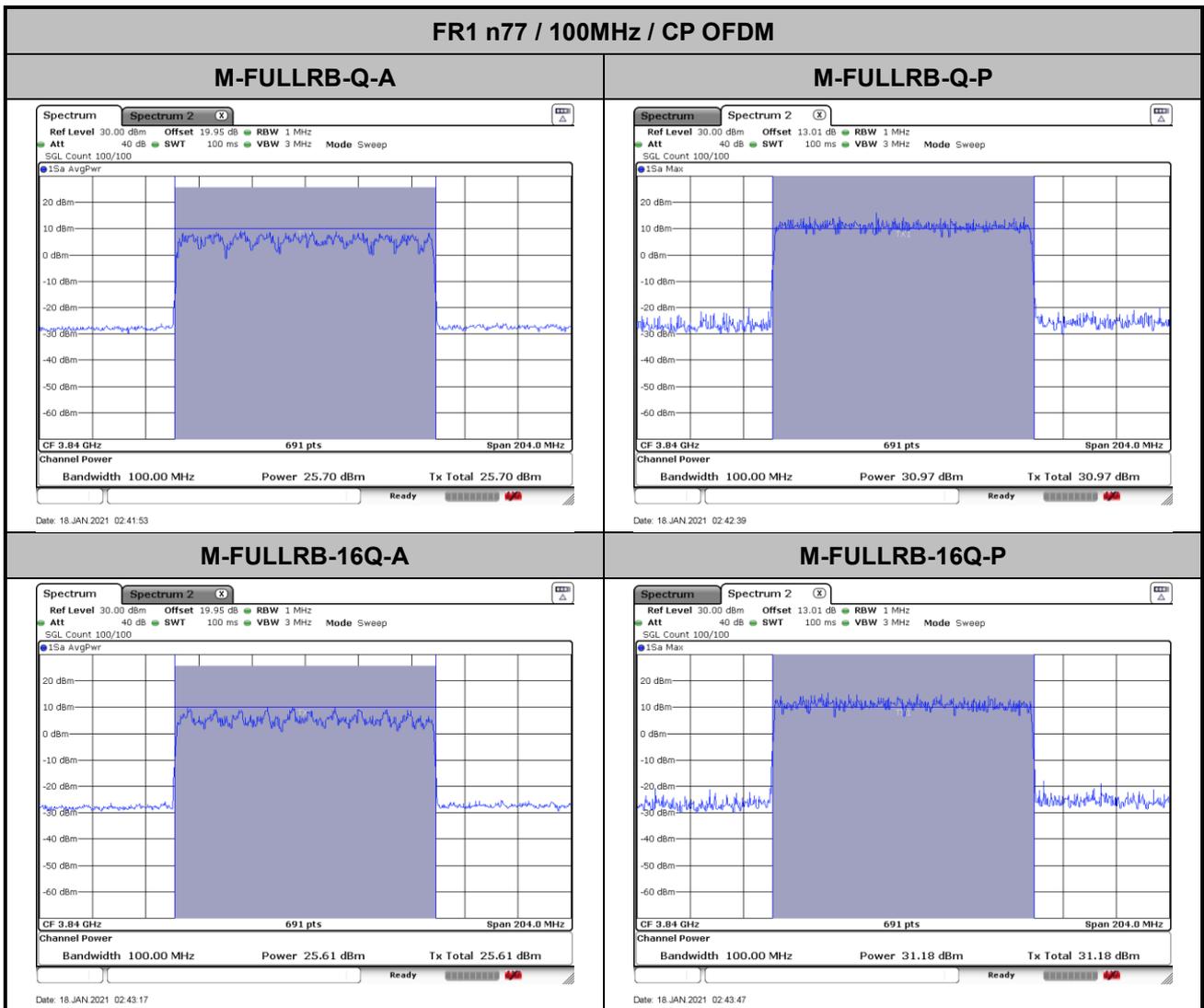


5G NR n77 UL_MIMO SA

Peak-to-Average Ratio

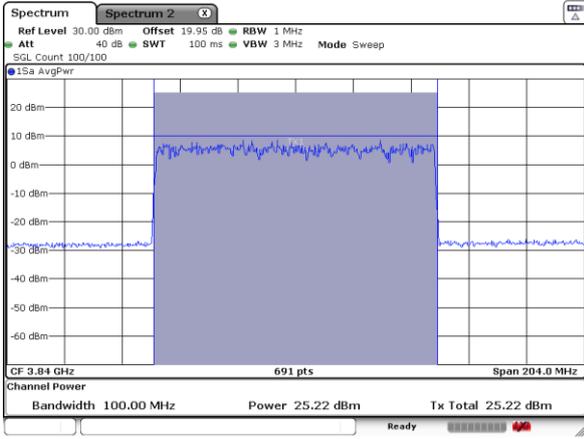
Mode	FR1 n77 / 100MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.27	5.57	5.4	5.42	PASS

Note: PAR=Peak-Average



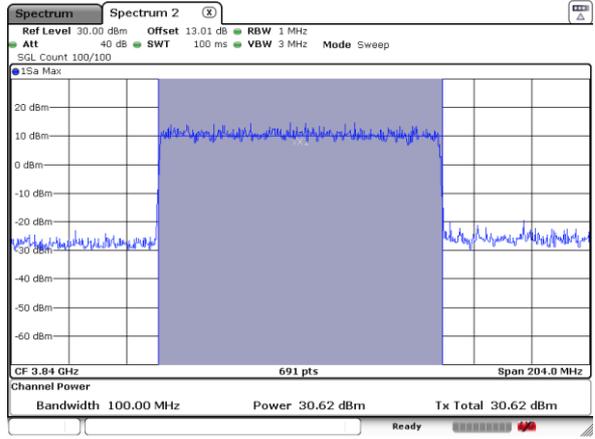


M-FULLRB-64Q-A



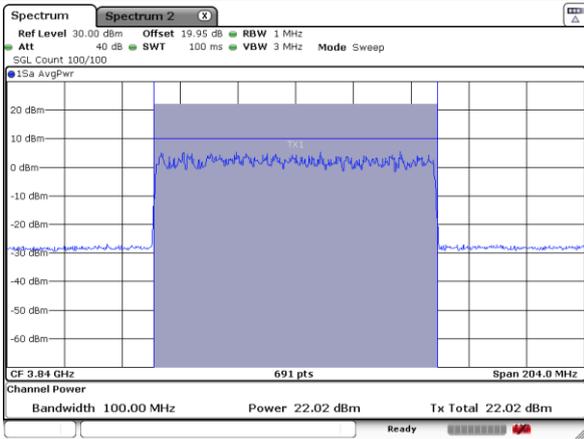
Date: 18 JAN 2021 02:45:01

M-FULLRB-64Q-P



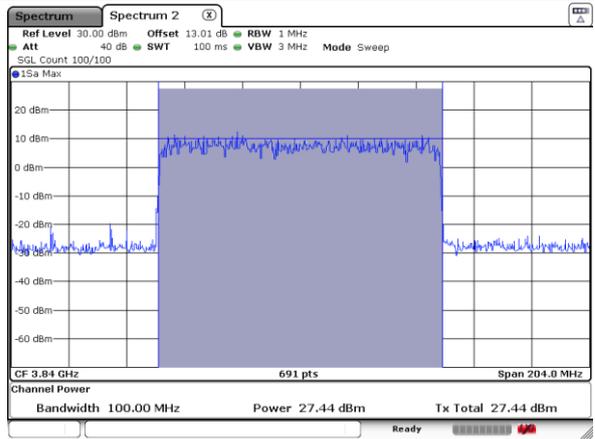
Date: 18 JAN 2021 02:44:23

M-FULLRB-256Q-A



Date: 18 JAN 2021 02:45:31

M-FULLRB-256Q-P

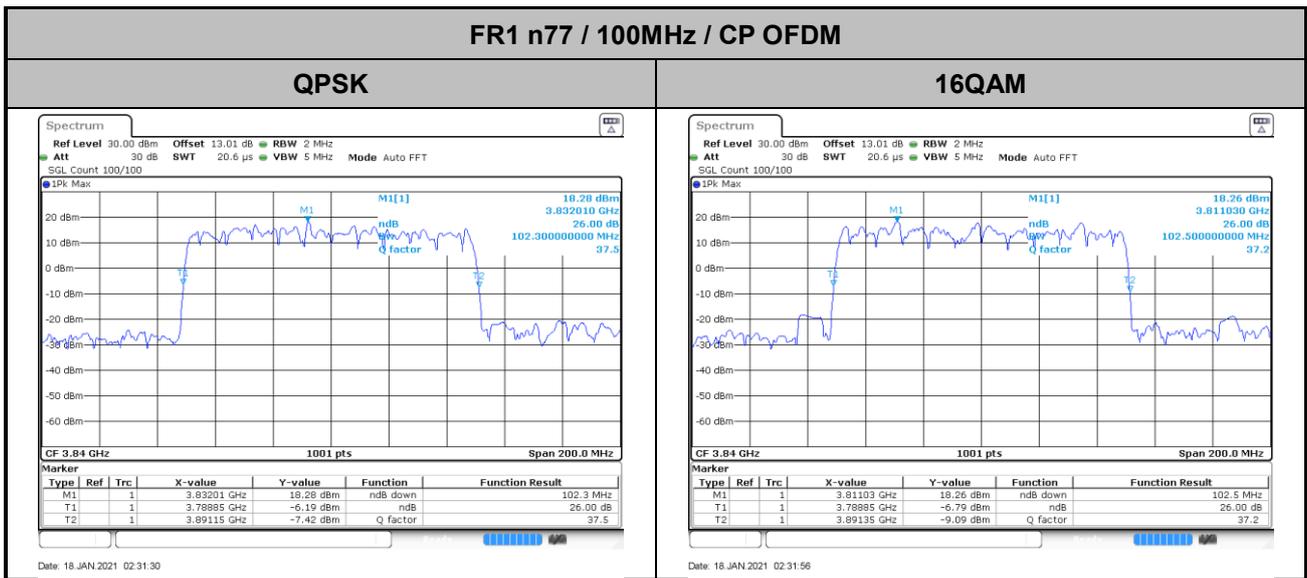


Date: 18 JAN 2021 02:46:01



26dB Bandwidth

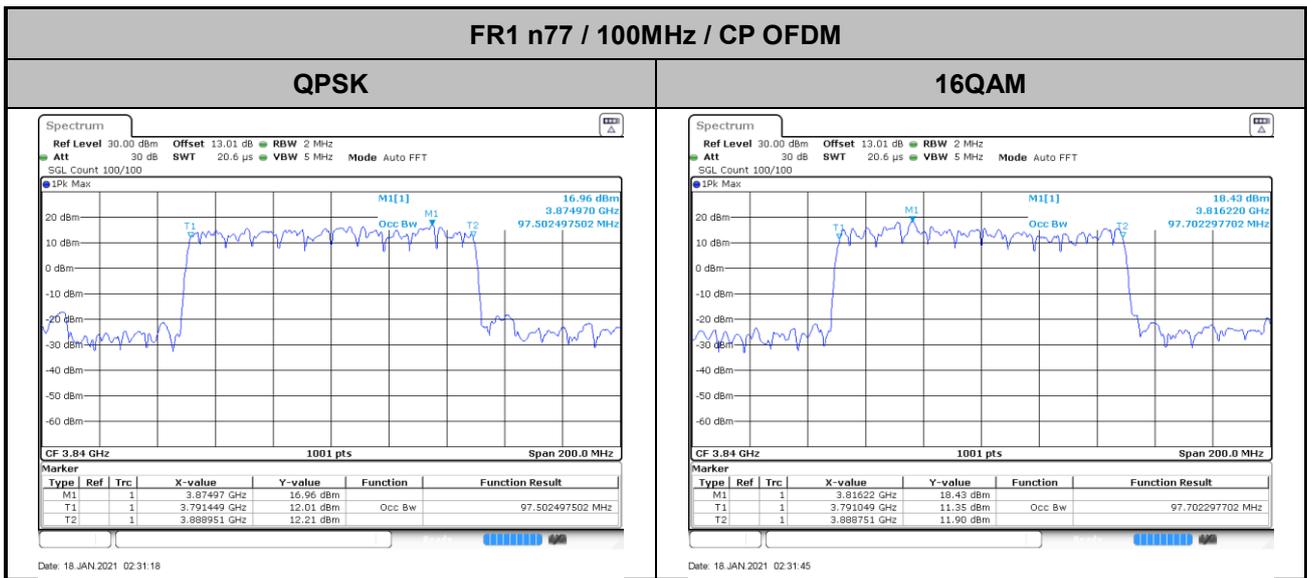
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	102.3	102.5





Occupied Bandwidth

Mode	FR1 n77 : 99%OBW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	97.502	97.702



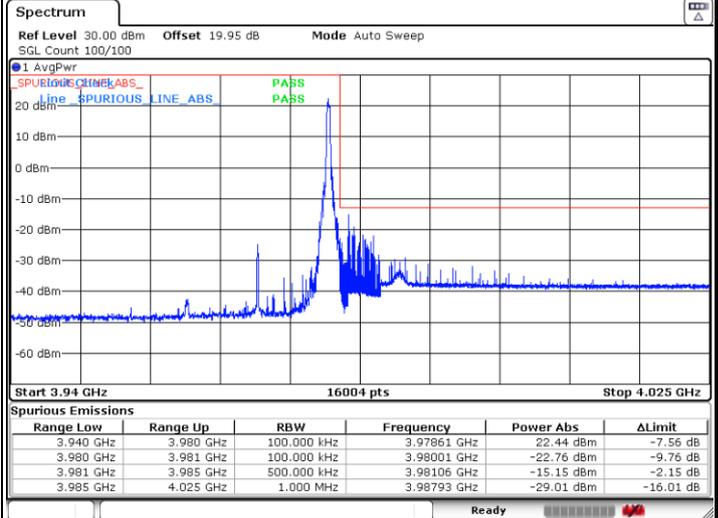
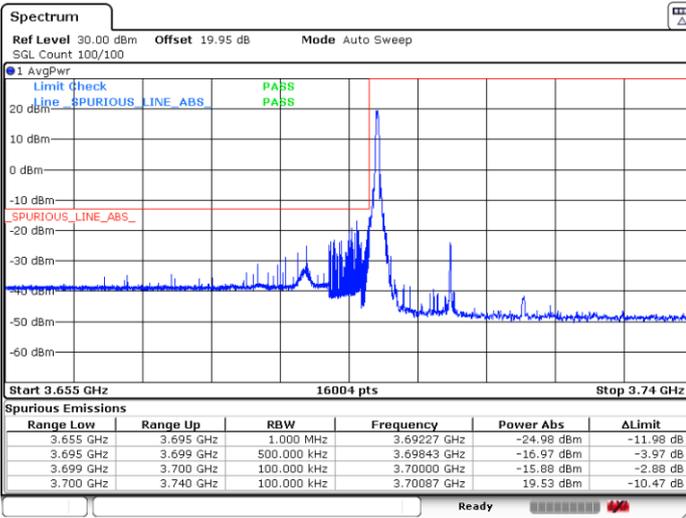


Conducted Band Edge

FR1 n77 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

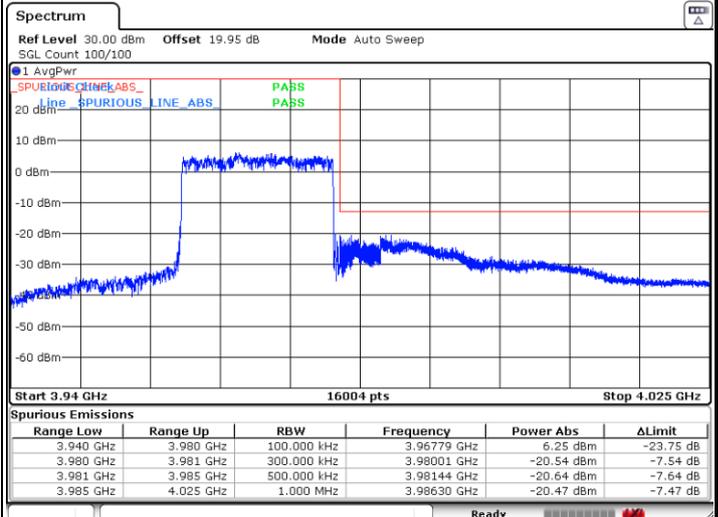
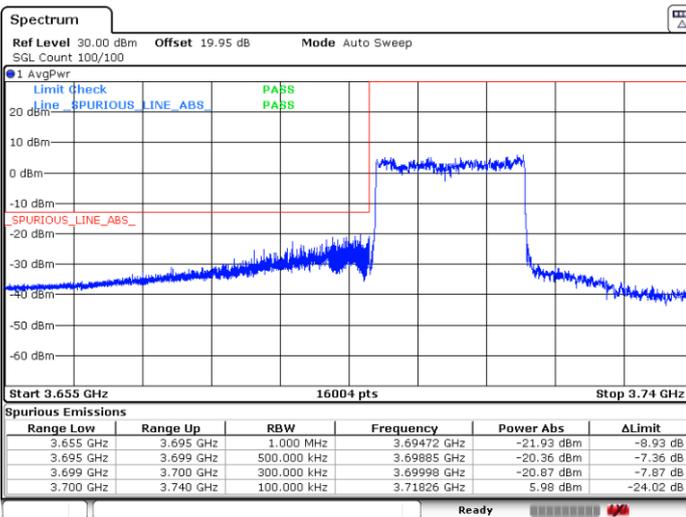


Date: 18 JAN 2021 02:20:58

Date: 18 JAN 2021 02:26:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18 JAN 2021 02:18:39

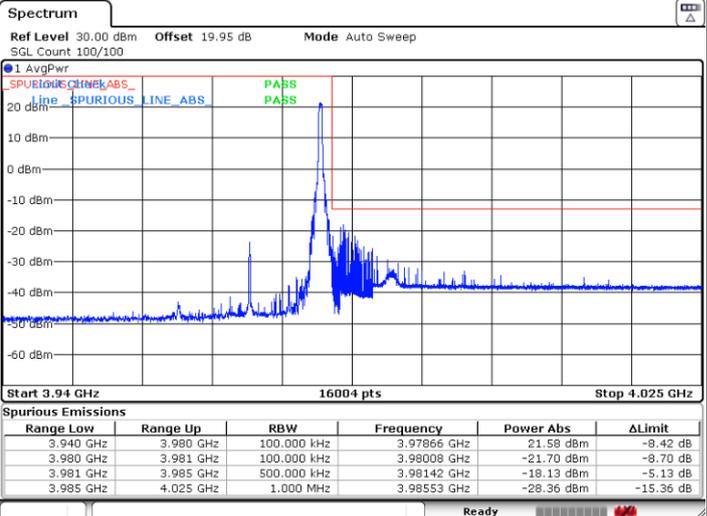
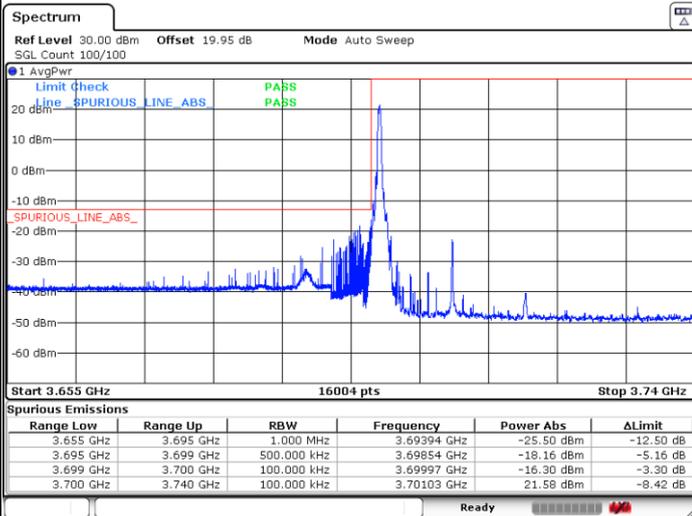
Date: 18 JAN 2021 02:23:46



FR1 n77 / 20MHz / CP OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

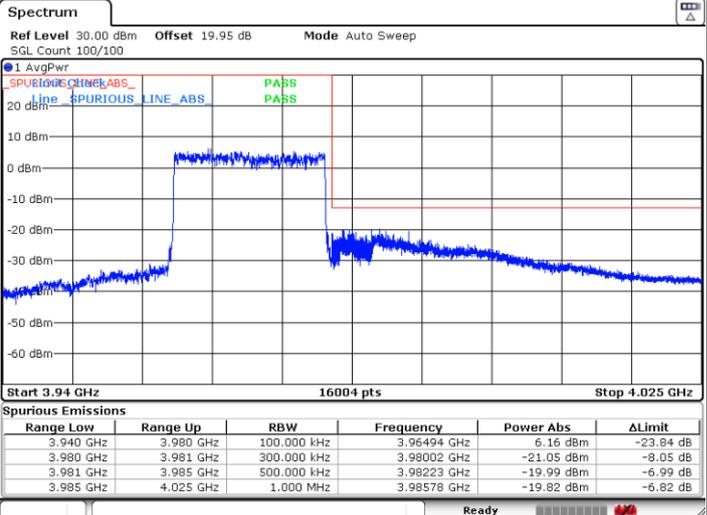
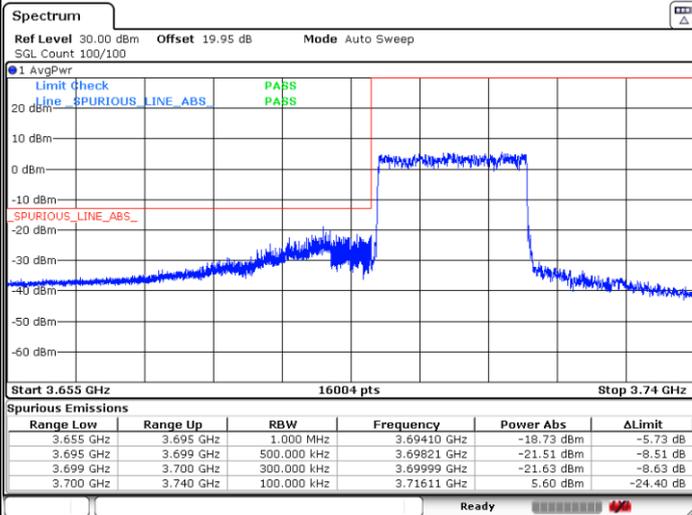


Date: 18 JAN 2021 02:21:27

Date: 18 JAN 2021 02:27:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18 JAN 2021 02:19:27

Date: 18 JAN 2021 02:24:20