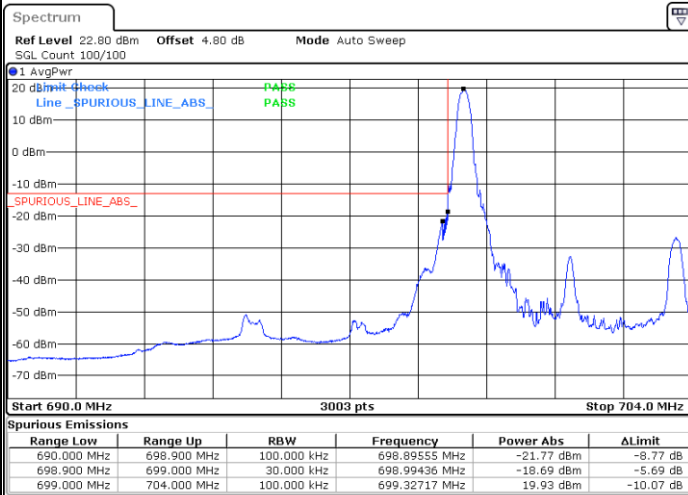


**Conducted Band Edge**

FR1 n12 / 5MHz / DFT-S OFDM / PI/2 BPSK

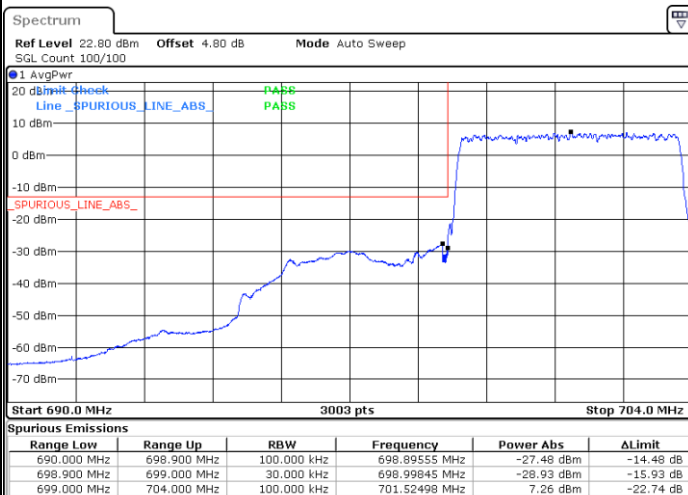
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

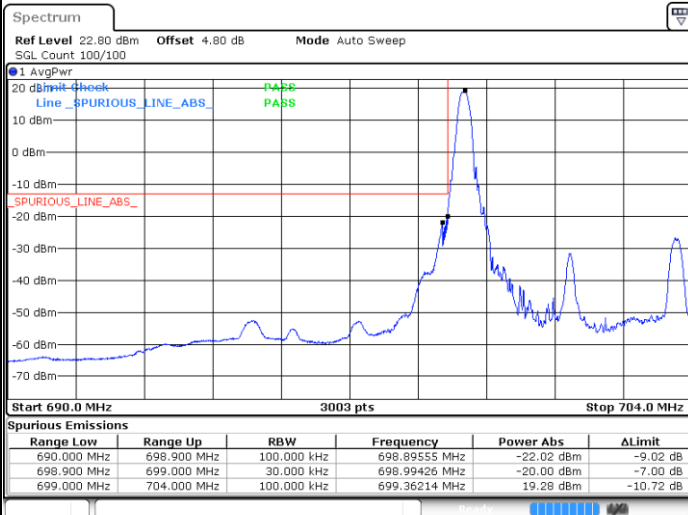




FR1 n12 / 5MHz / DFT-S OFDM / QPSK

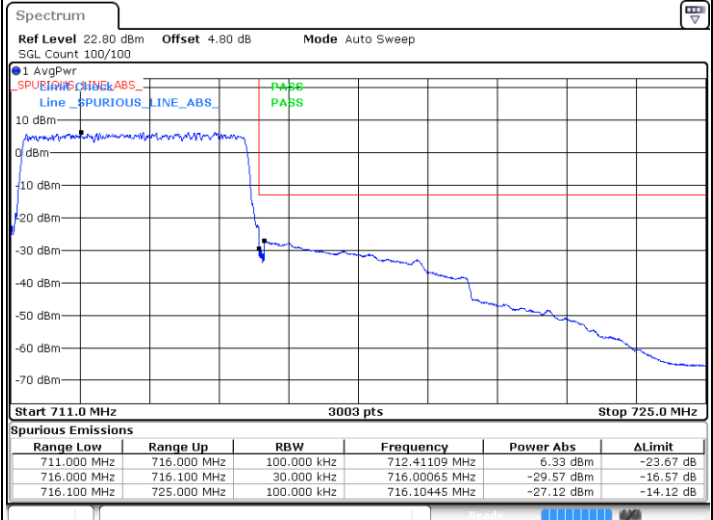
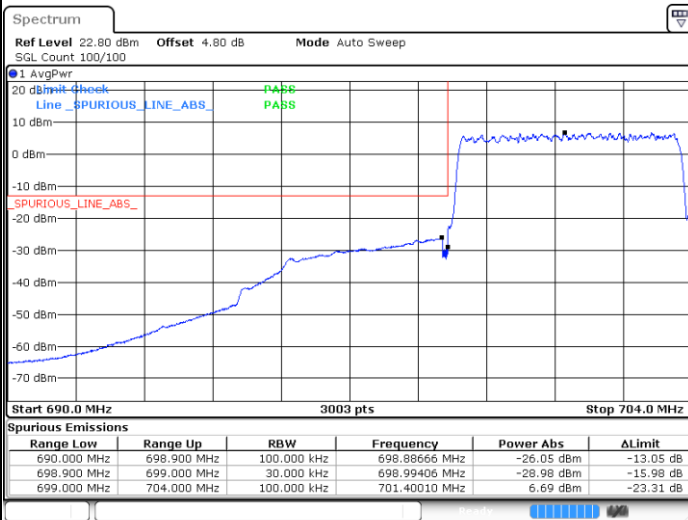
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

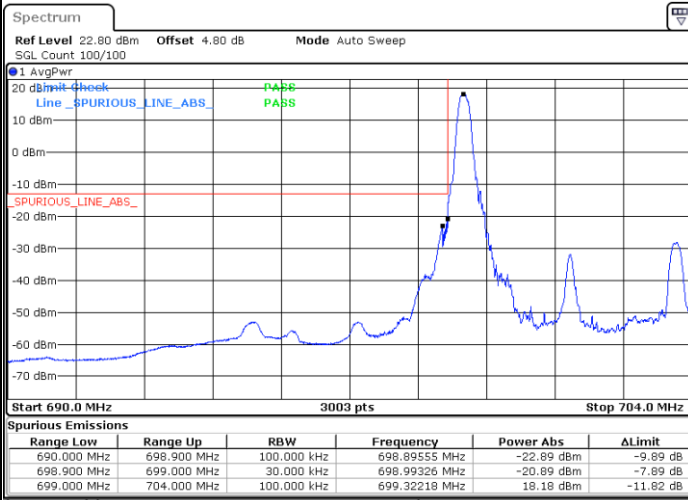




FR1 n12 / 5MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



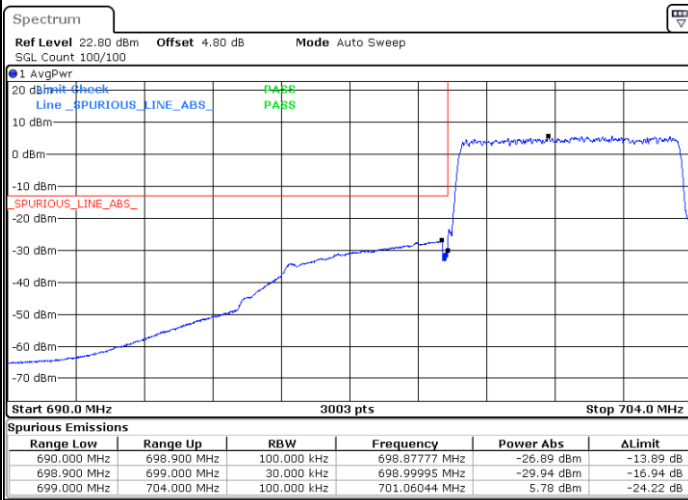
Date: 19 DEC 2020 16:40:11



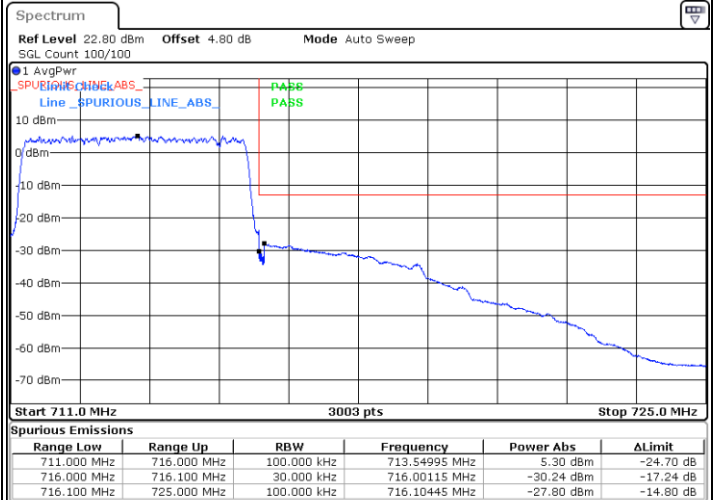
Date: 19 DEC 2020 16:47:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 16:37:04



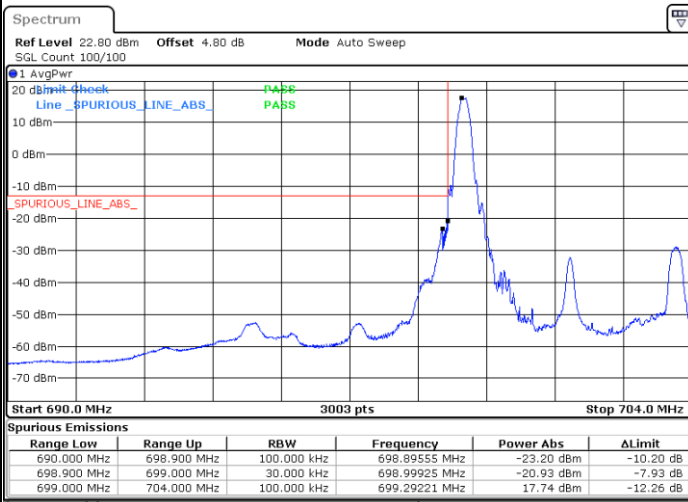
Date: 19 DEC 2020 16:43:37



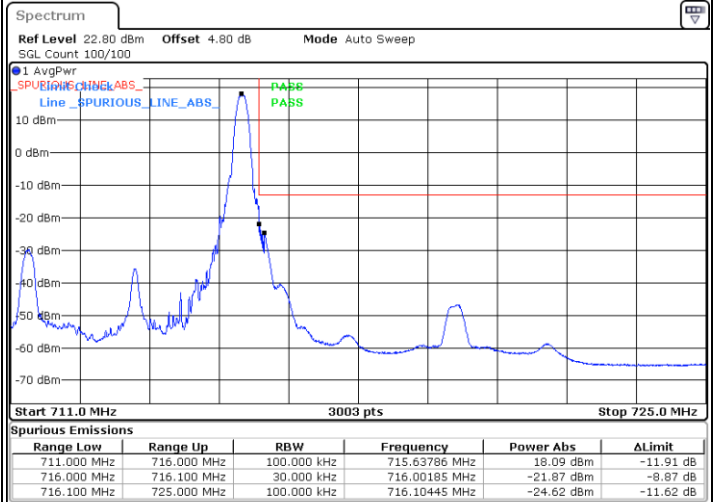
FR1 n12 / 5MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



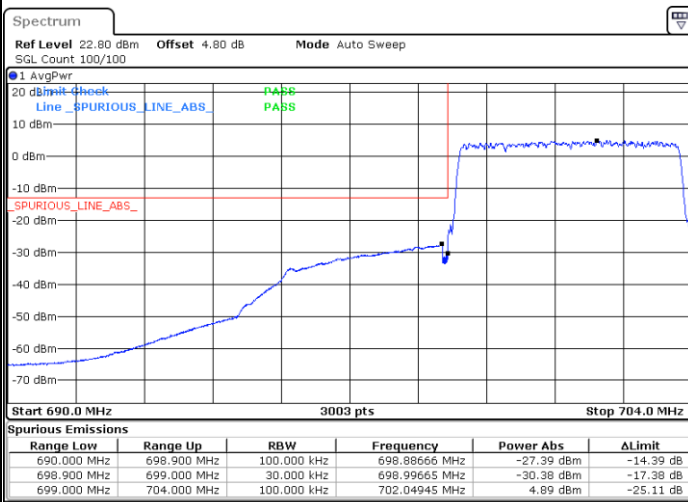
Date: 19 DEC 2020 16:40:47



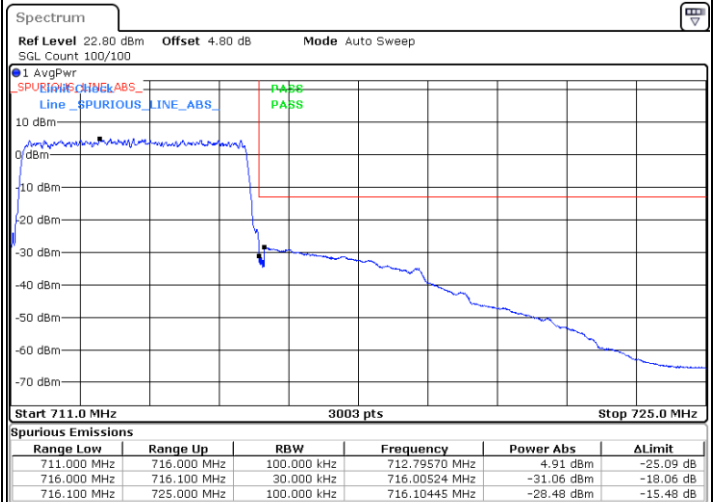
Date: 19 DEC 2020 16:47:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19 DEC 2020 16:37:38



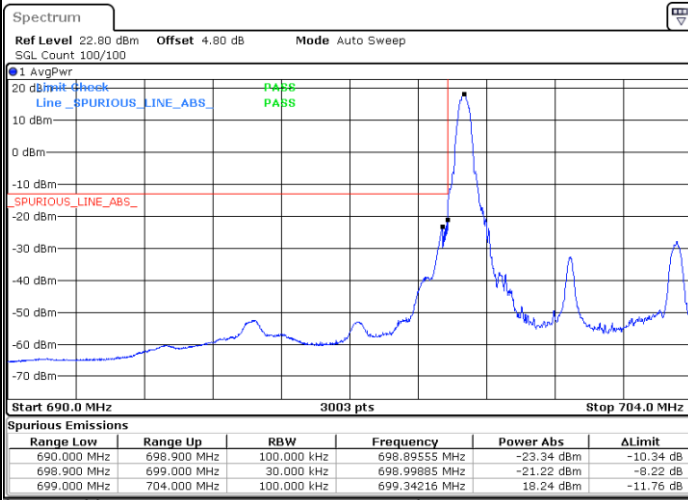
Date: 19 DEC 2020 16:44:11



FR1 n12 / 5MHz / DFT-S OFDM / 256Q

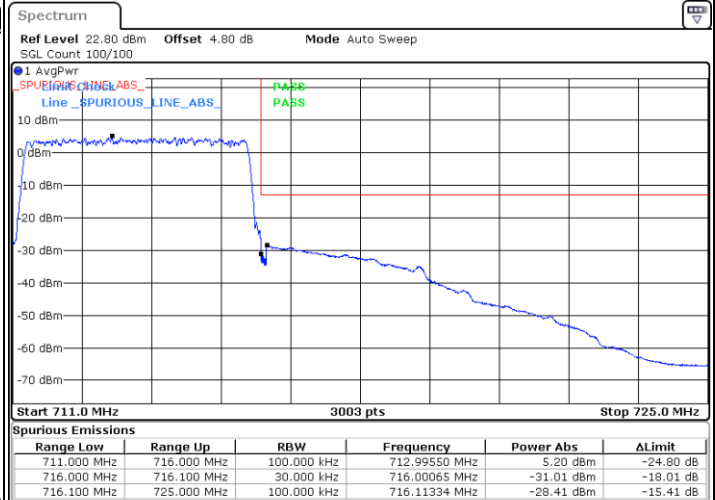
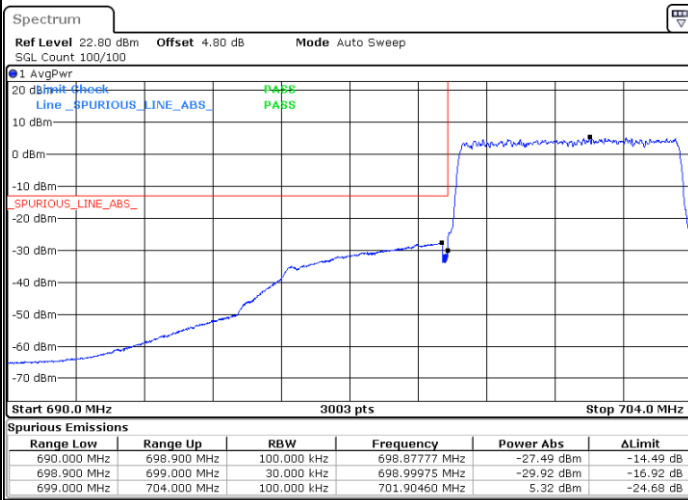
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

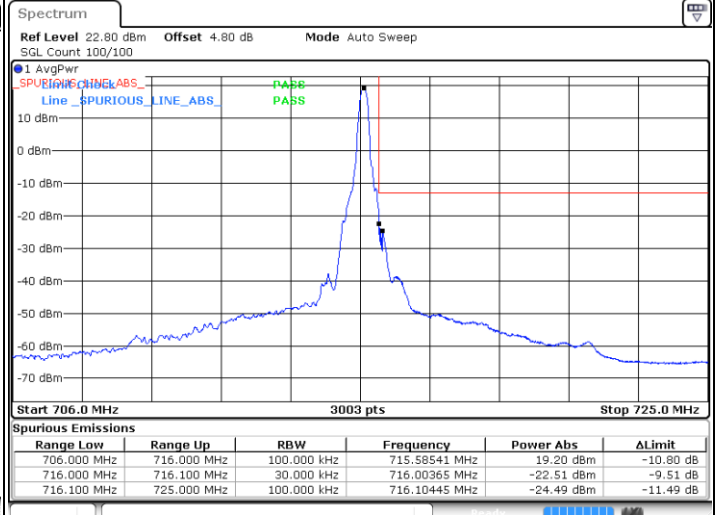
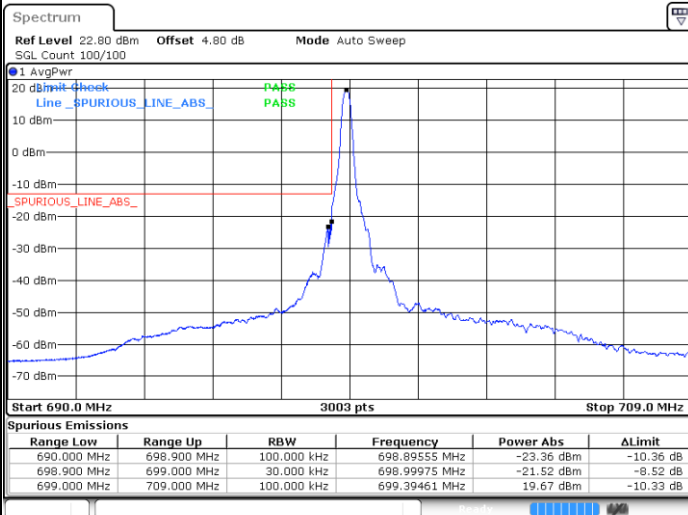




FR1 n12 / 10MHz / DFT-s-OFDM / PI/2 BPSK

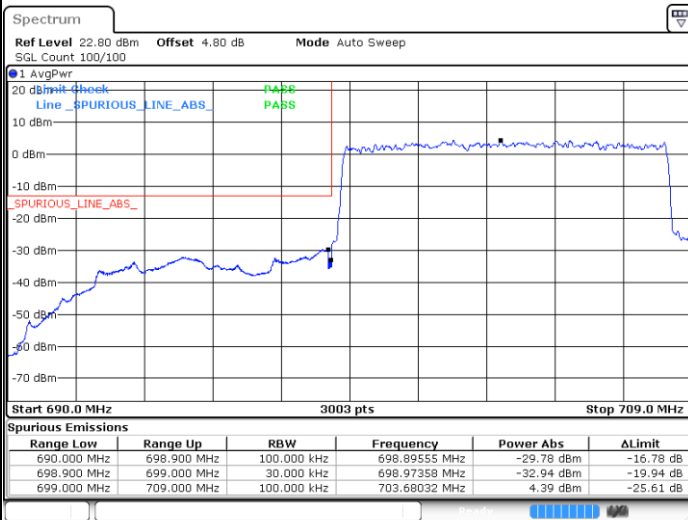
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

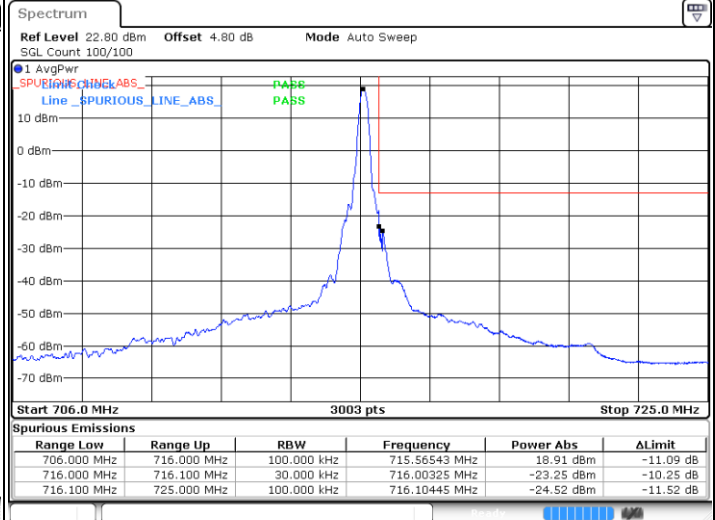
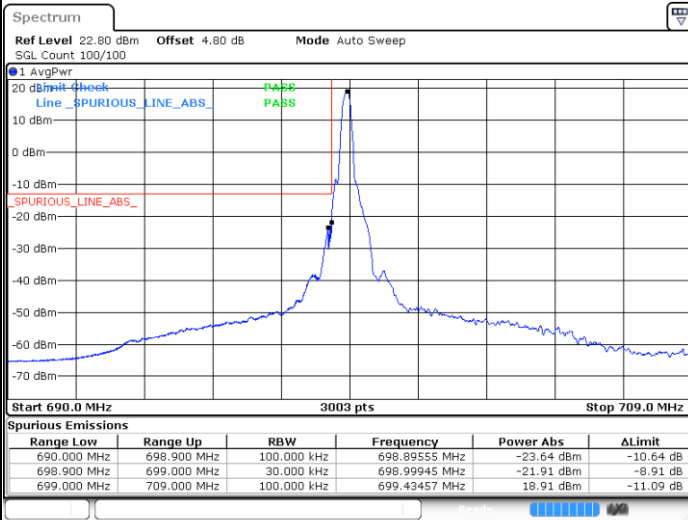




FR1 n12 / 10MHz / DFT-s-OFDM / QPSK

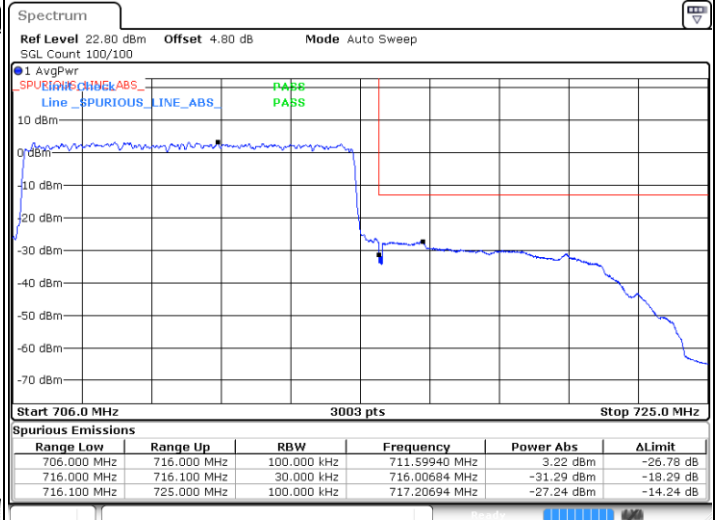
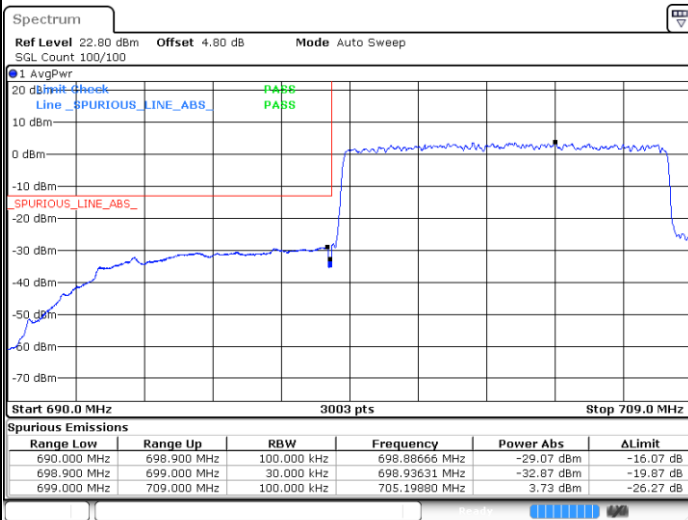
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

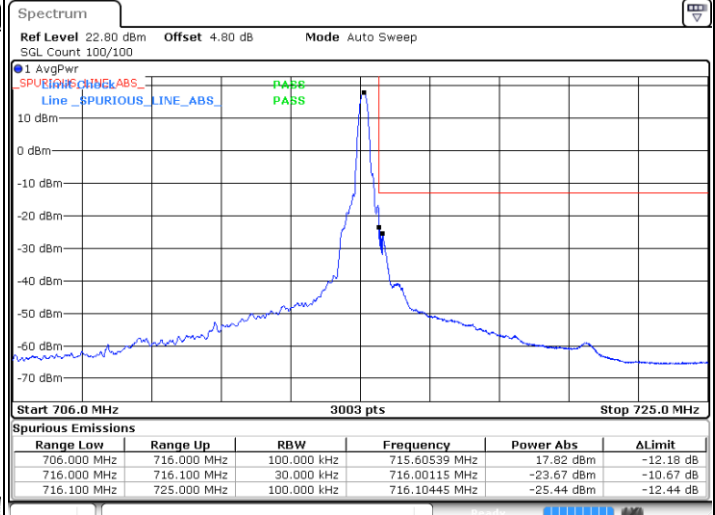
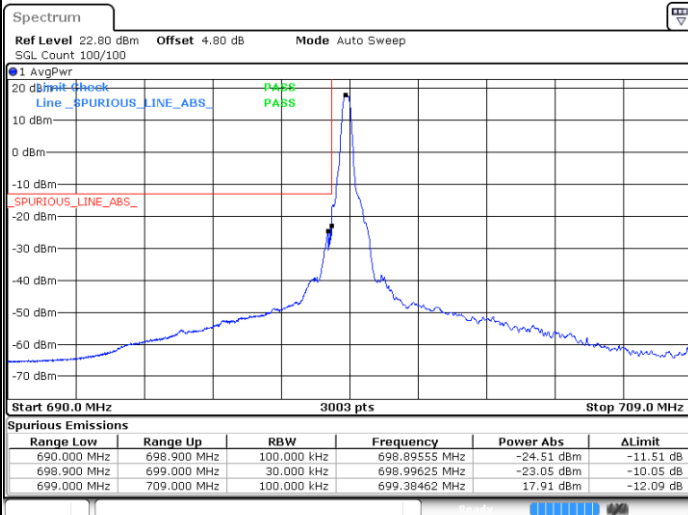




FR1 n12 / 10MHz / DFT-s-OFDM / 16QAM

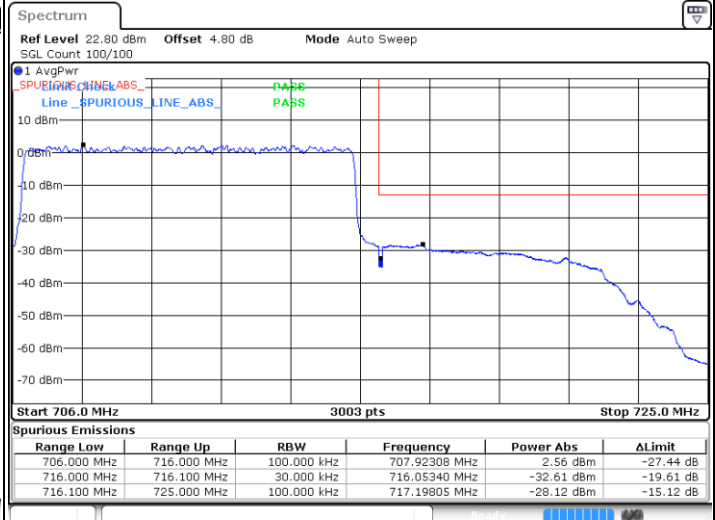
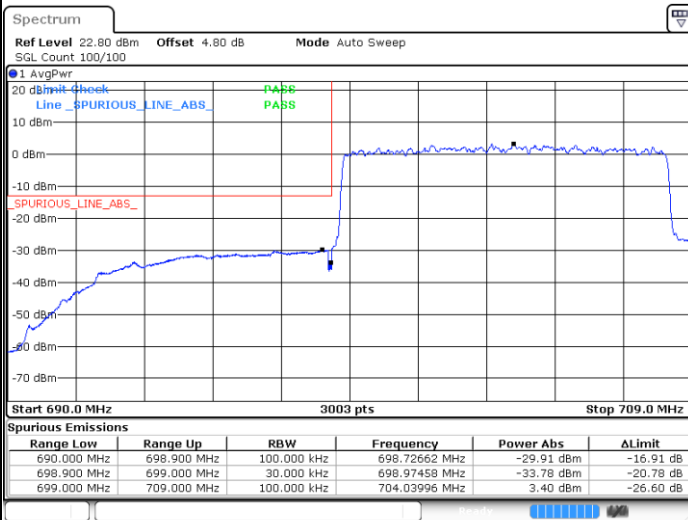
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

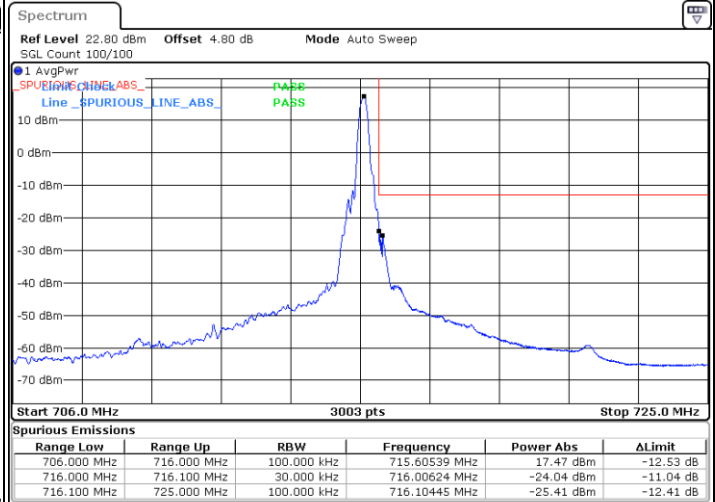
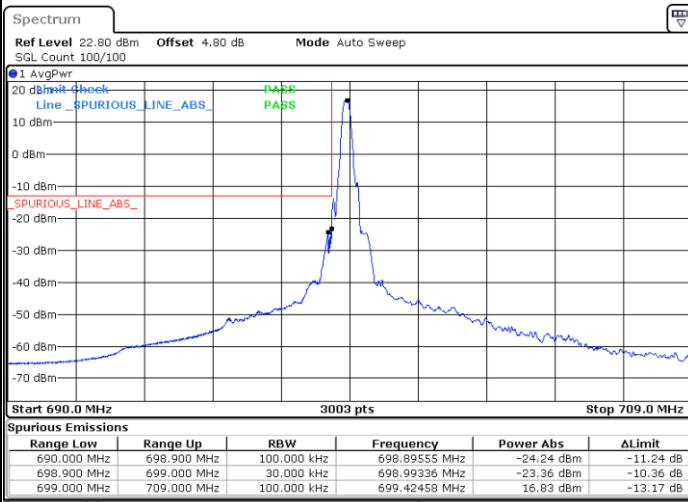




FR1 n12 / 10MHz / DFT-s-OFDM / 64QAM

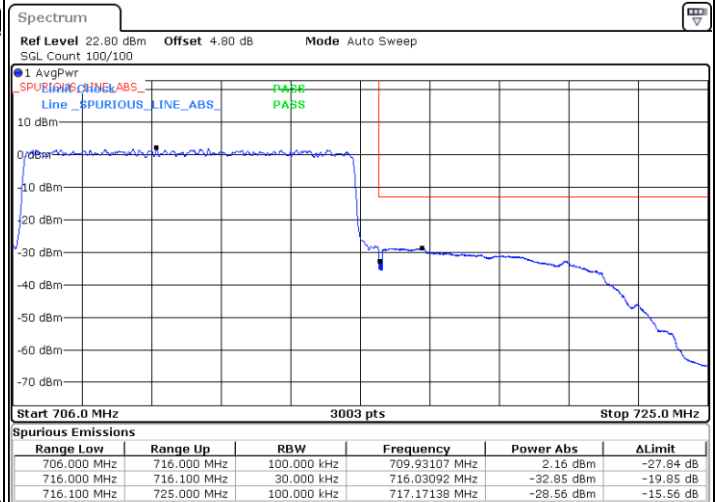
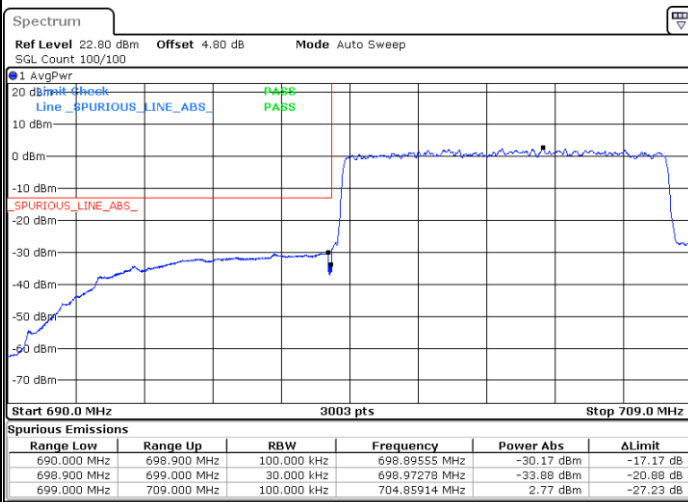
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

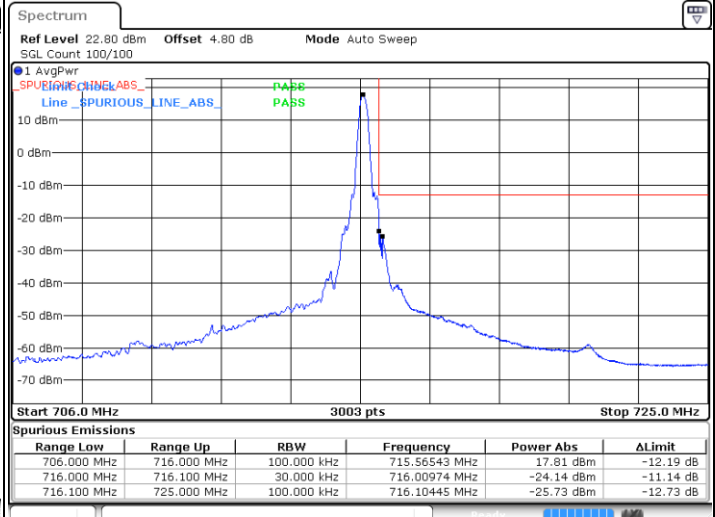
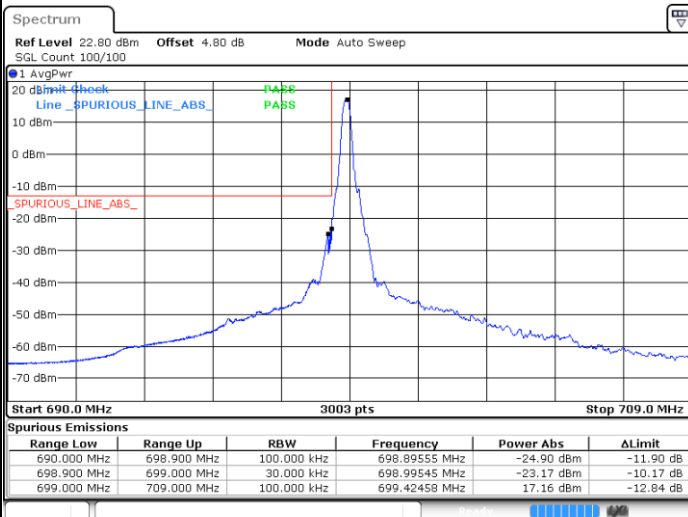




FR1 n12 / 10MHz / DFT-s-OFDM / 256QAM

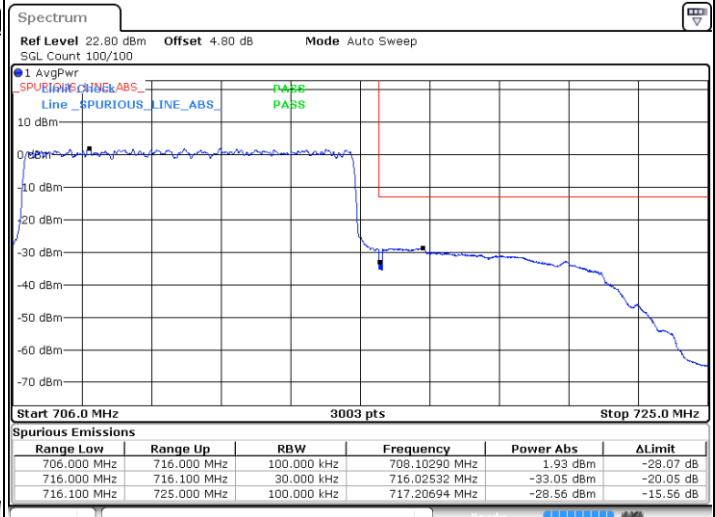
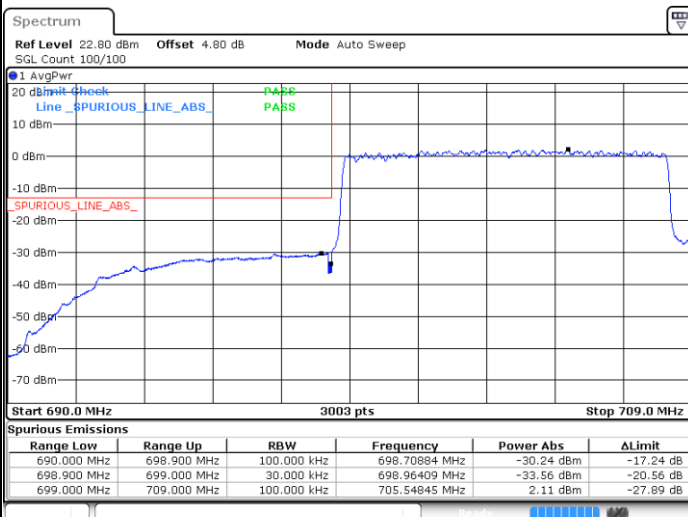
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

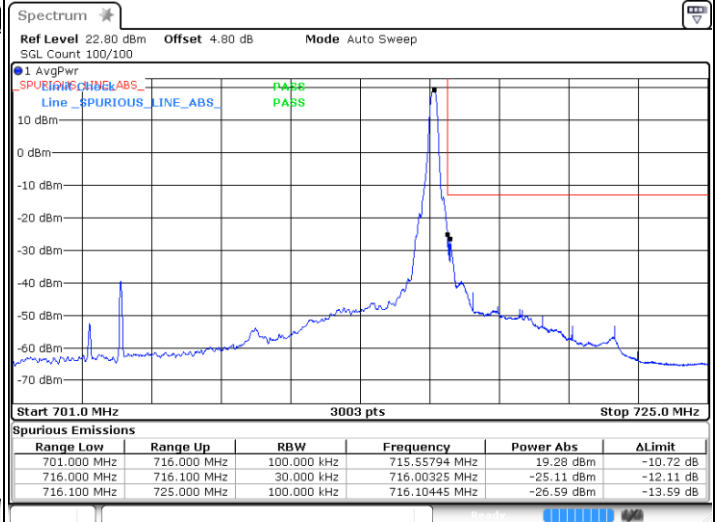
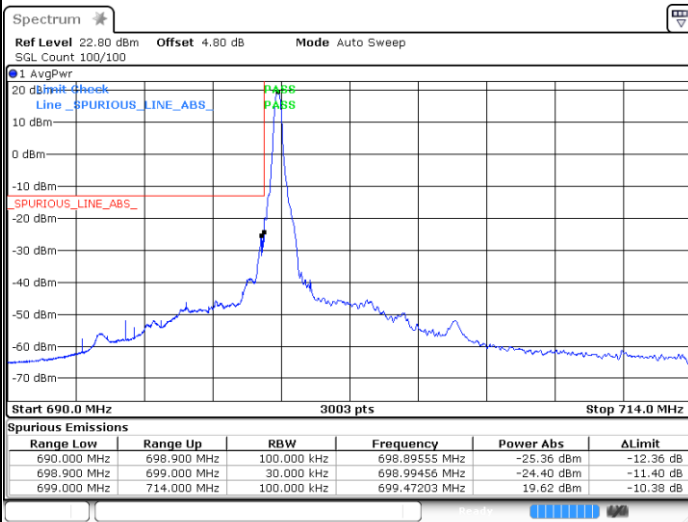




FR1 n12 / 15MHz / DFT-s-OFDM / PI/2 BPSK

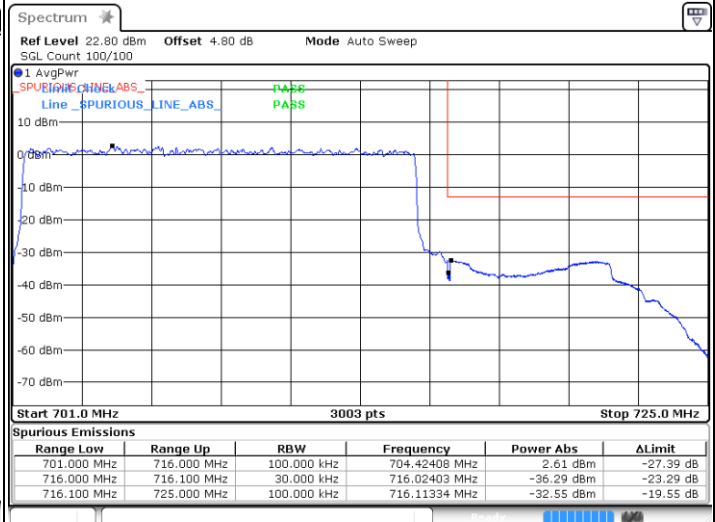
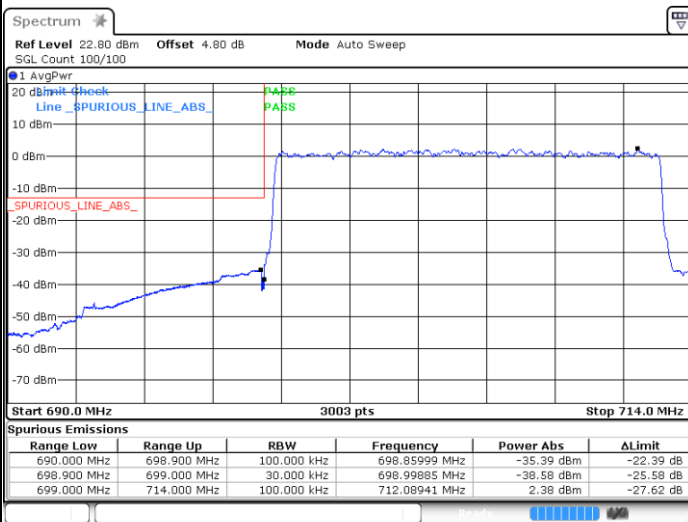
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

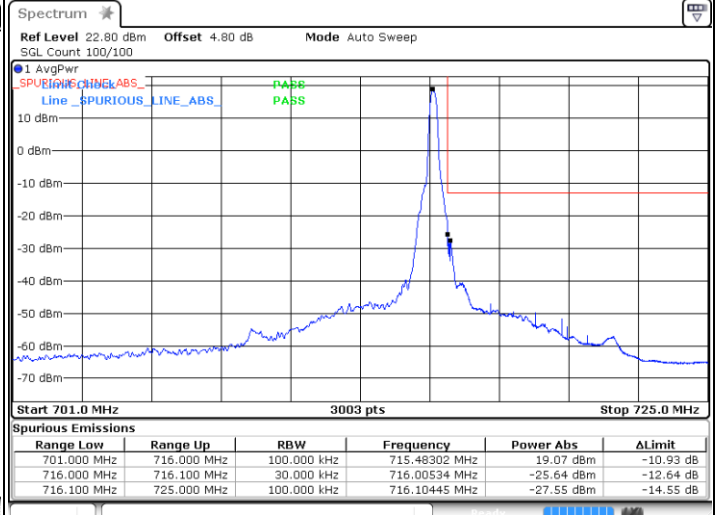
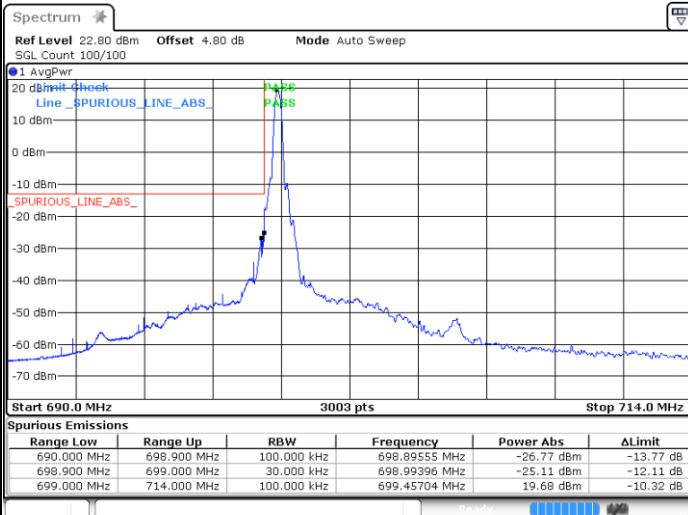




FR1 n12 / 15MHz / DFT-s-OFDM / QPSK

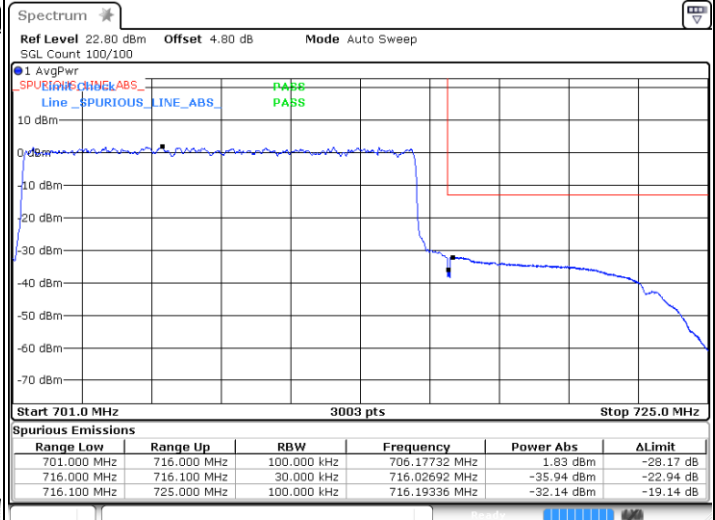
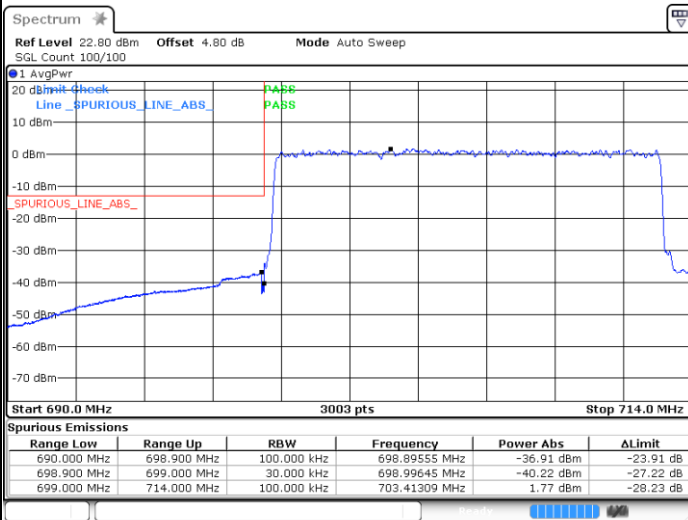
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

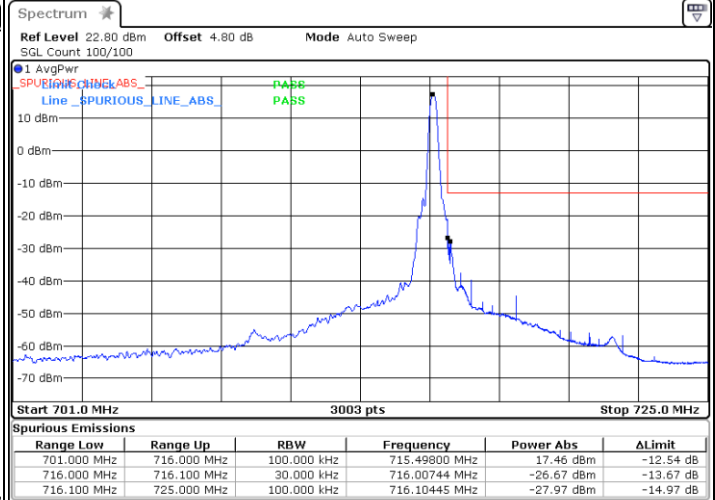
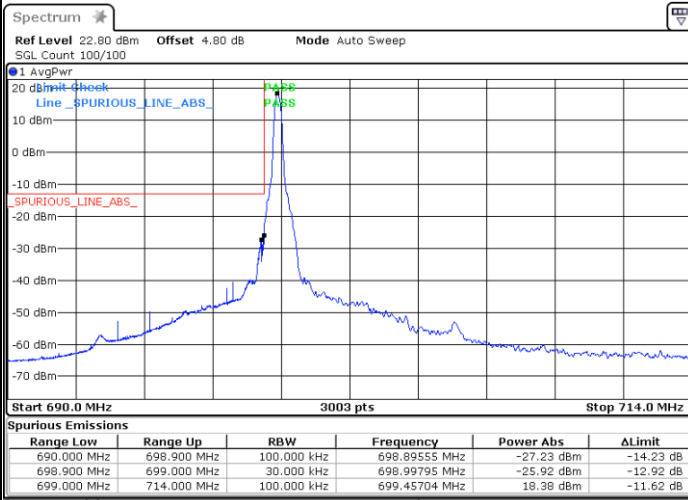




FR1 n12 / 15MHz / DFT-s-OFDM / 16QAM

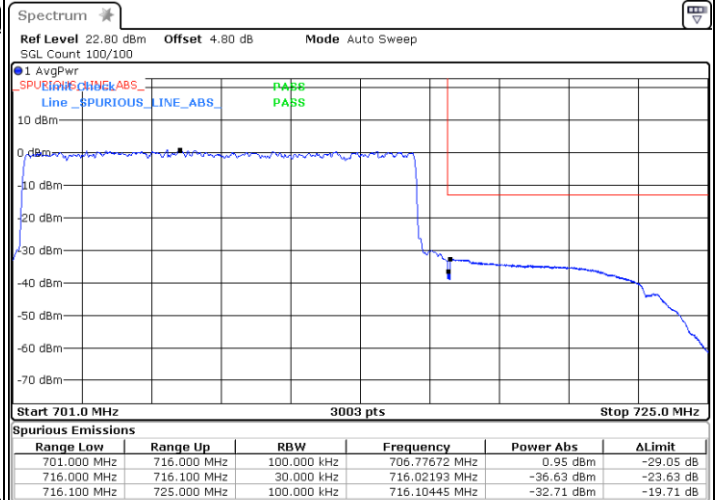
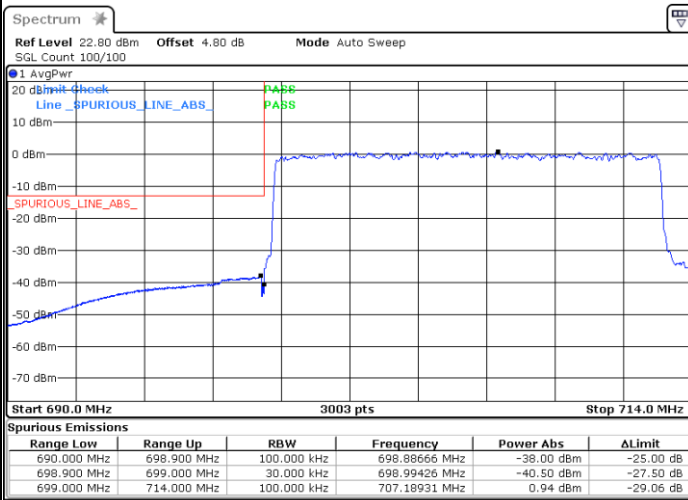
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

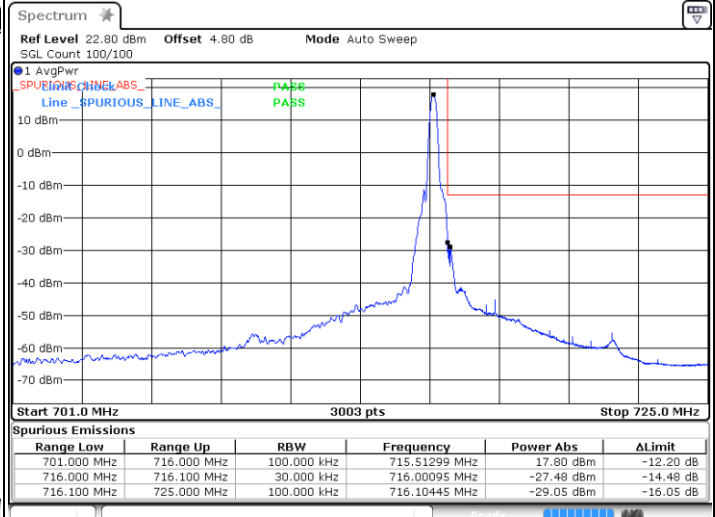
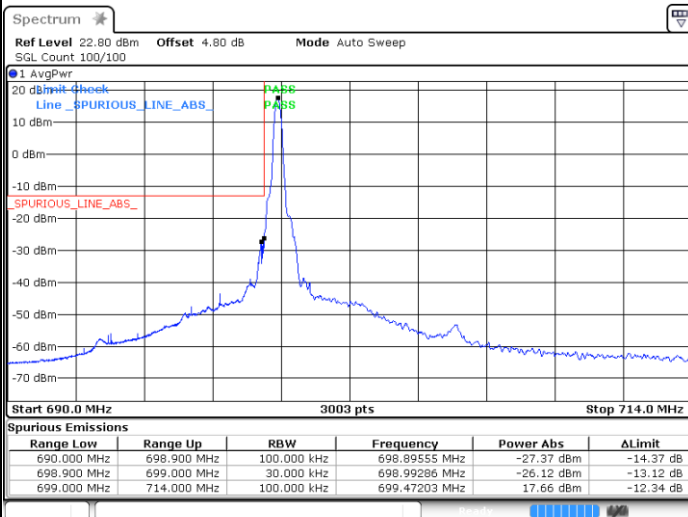




FR1 n12 / 15MHz / DFT-s-OFDM / 64QAM

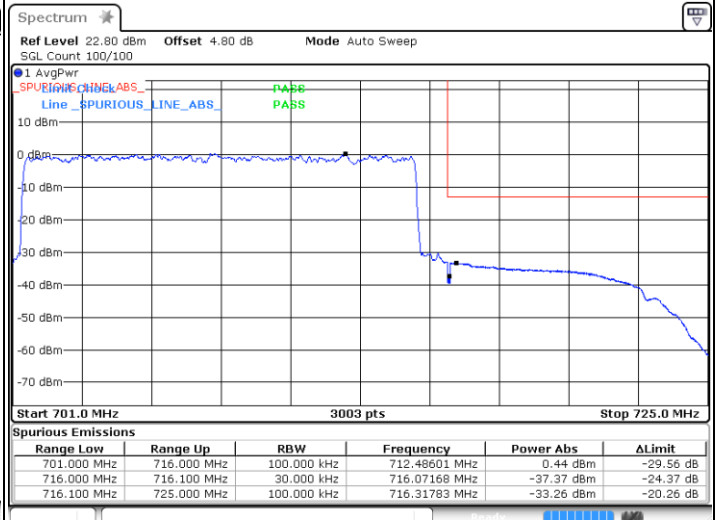
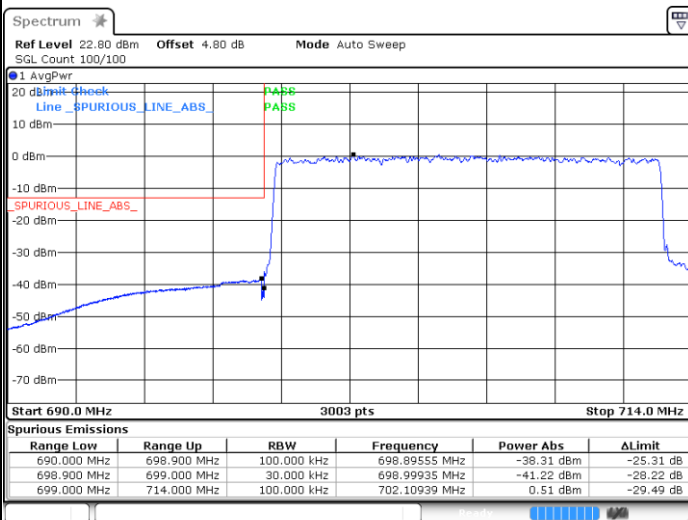
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

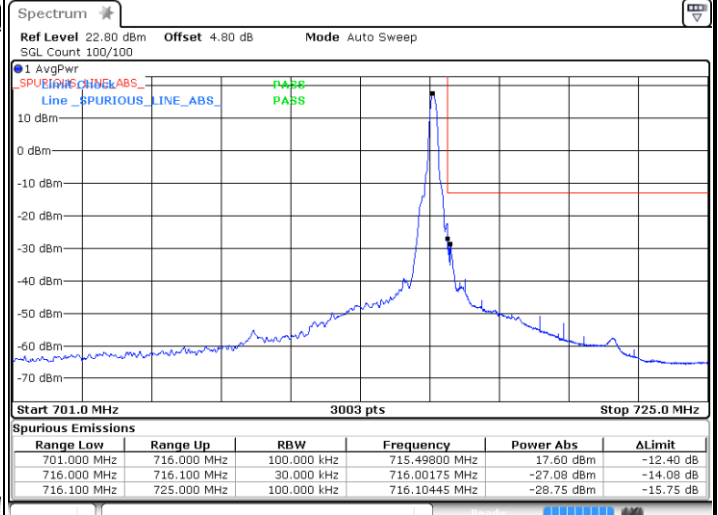
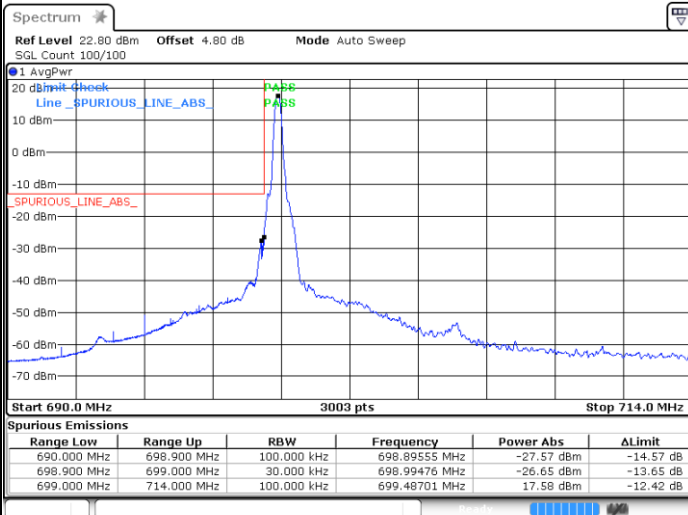




FR1 n12 / 15MHz / DFT-s-OFDM / 256QAM

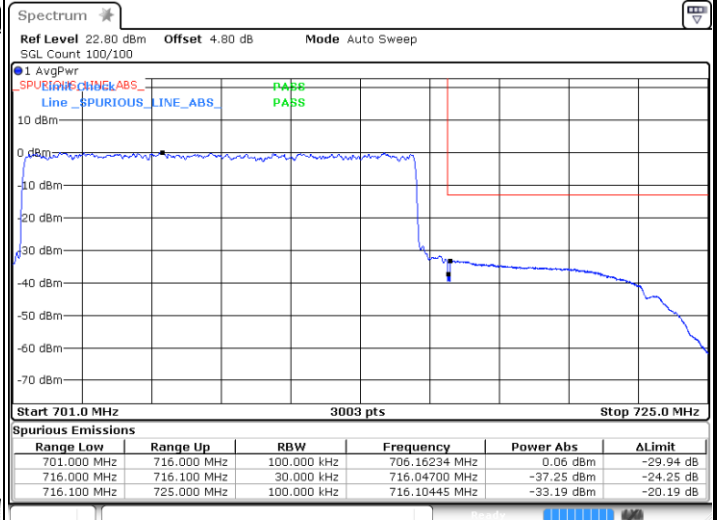
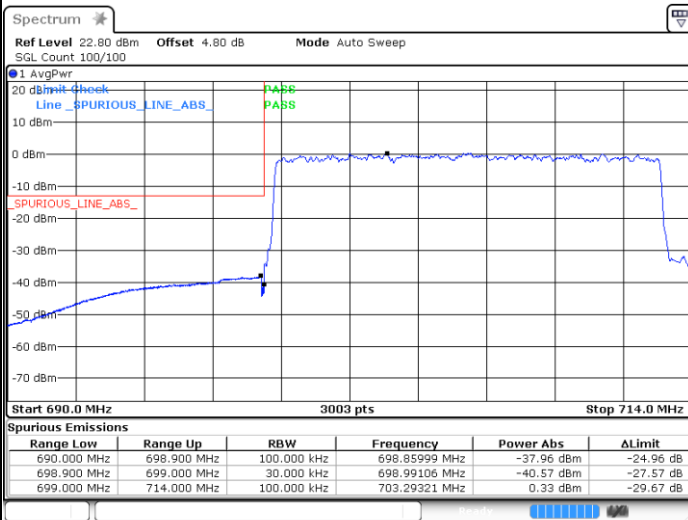
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

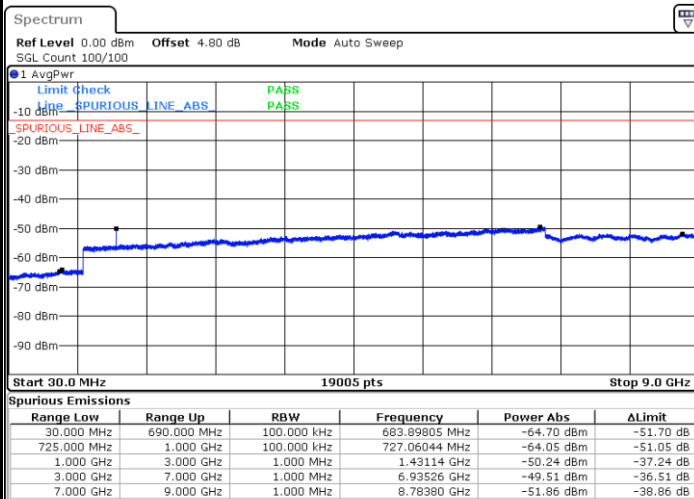




Conducted Spurious Emission

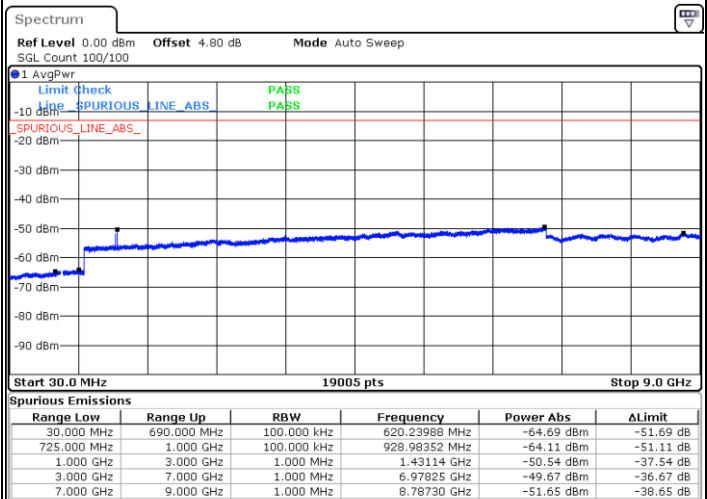
FR1 n12 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



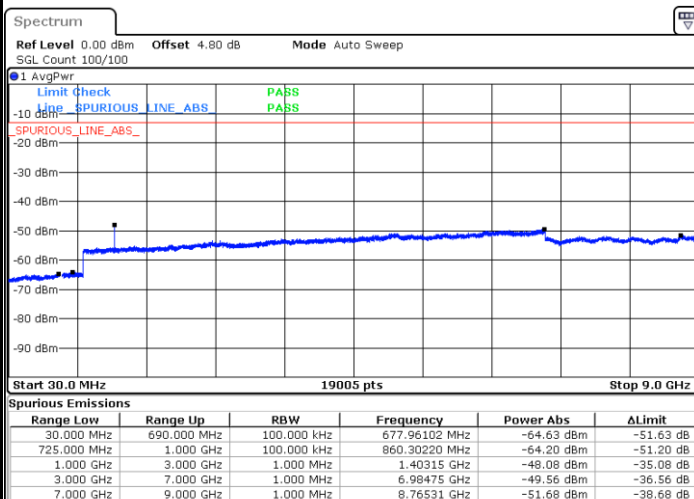
Date: 19 DEC 2020 17:46:03

Middle Channel / 1RB1



Date: 19 DEC 2020 17:46:27

Highest Channel / 1RB1

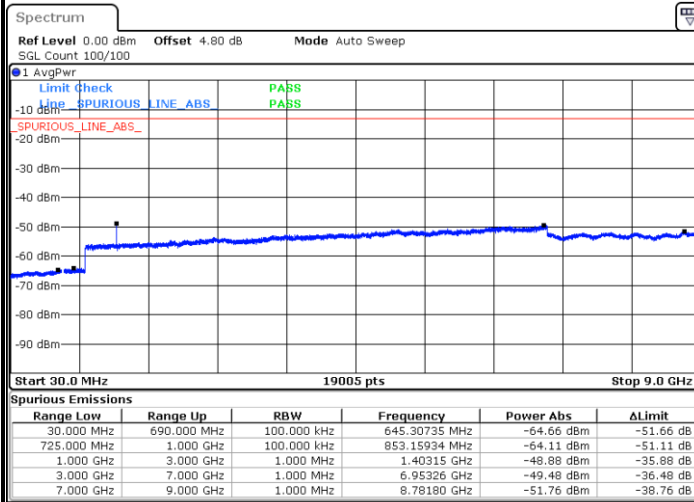


Date: 19 DEC 2020 17:46:51



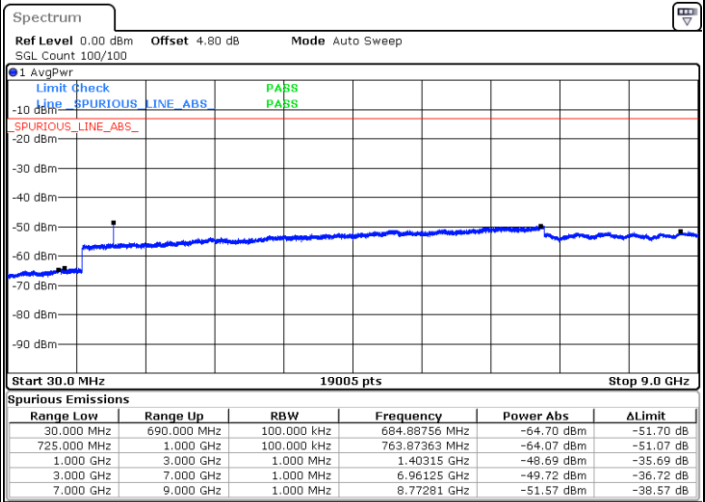
FR1 n12 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



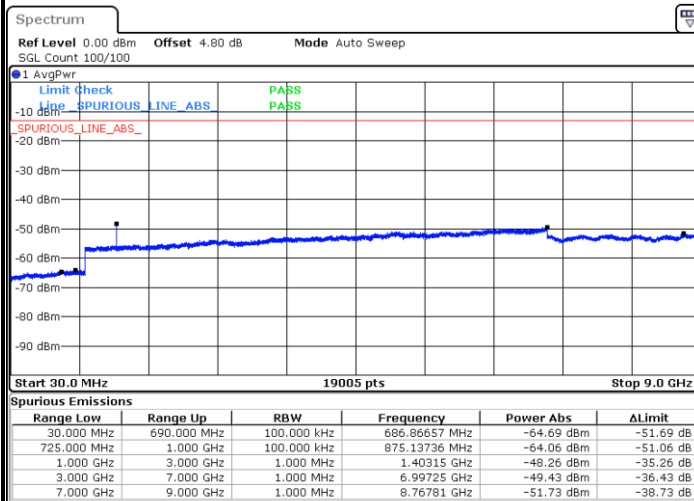
Date: 19 DEC 2020 17:47:23

Middle Channel / 1RB1



Date: 19 DEC 2020 17:47:48

Highest Channel / 1RB1

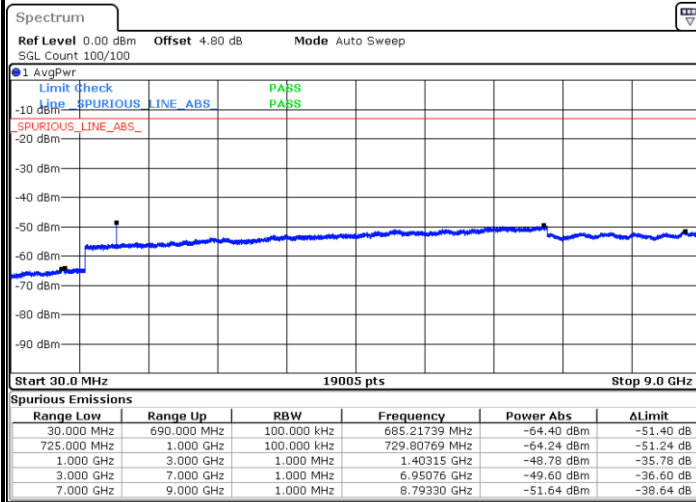


Date: 19 DEC 2020 17:48:12



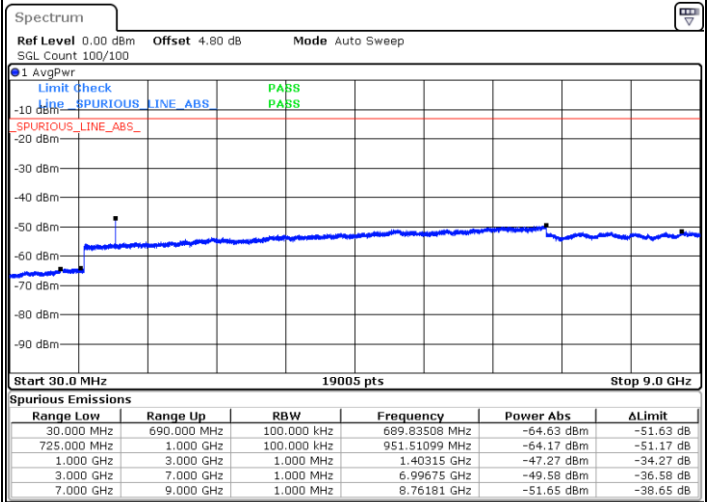
FR1 n12 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



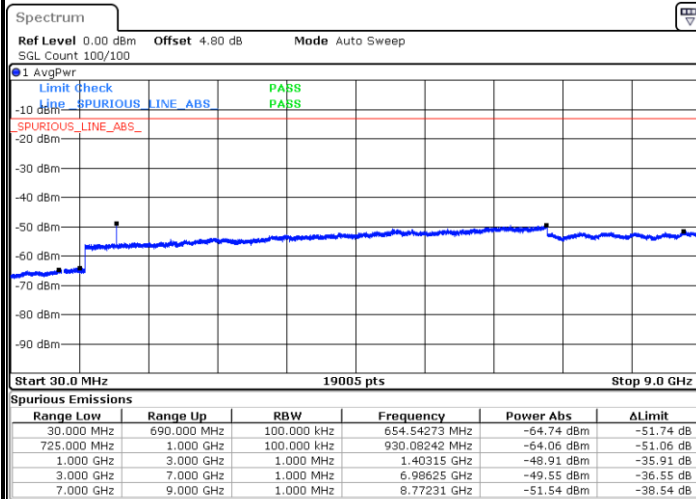
Date: 19 DEC 2020 17:48:38

Middle Channel / 1RB1



Date: 19 DEC 2020 17:57:14

Highest Channel / 1RB1



Date: 19 DEC 2020 18:18:27

Frequency Stability

Test Conditions		FR1 n12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0055	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0064	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =7.3 V. ; Maximum Voltage =8.7 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n41 SA

Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.5	5.16	5.14	5.28	PASS
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.36				PASS

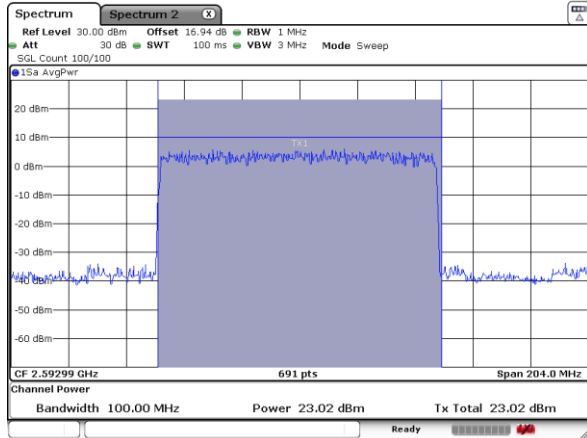
Note: PAR=Peak-Average



FR1 n41 / 100MHz / DFT-S OFDM

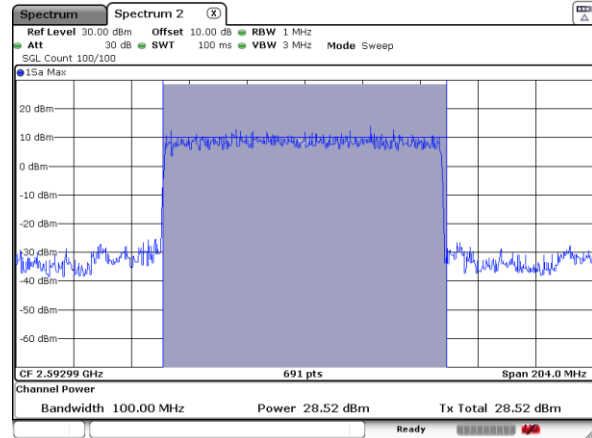
Middle Channel / Full RB

BPSK-Average

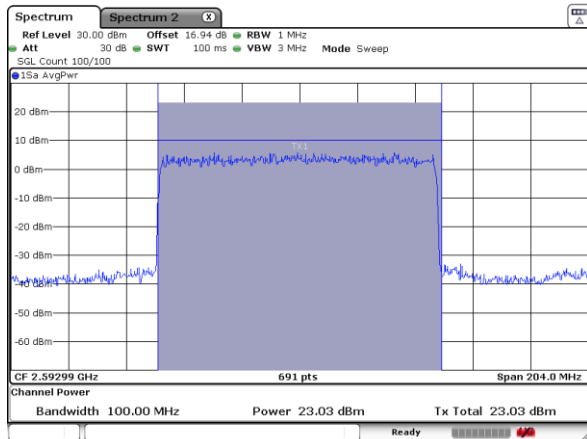


Middle Channel / Full RB

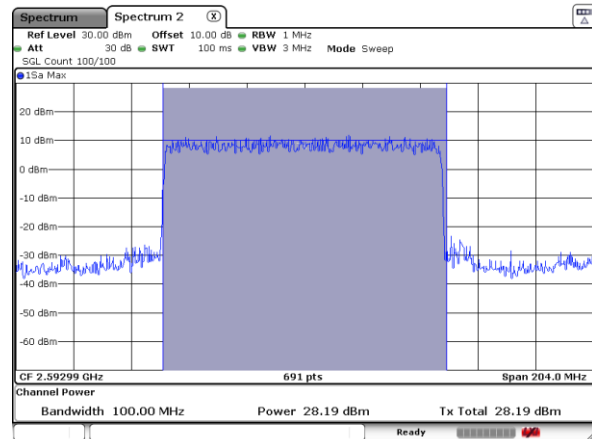
BPSK-Peak



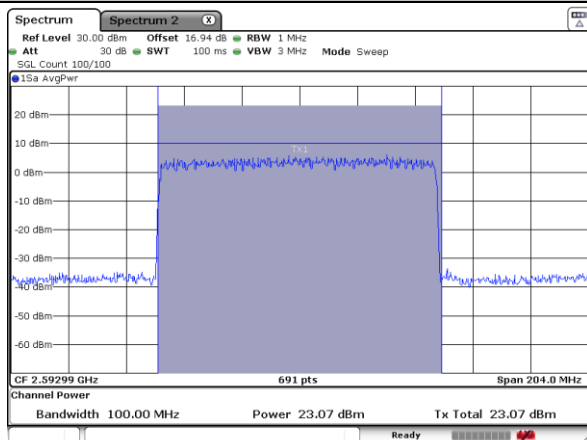
QPSK-Average



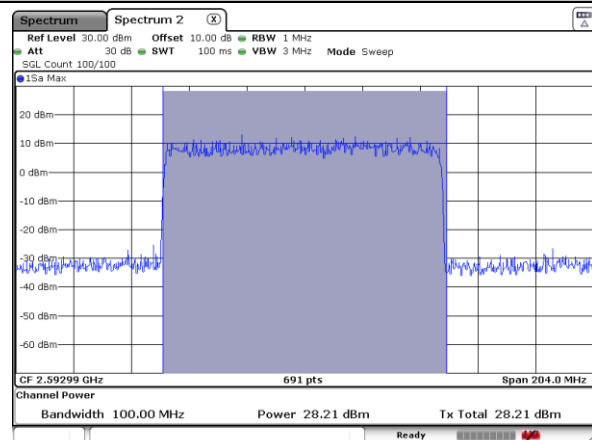
QPSK-Peak

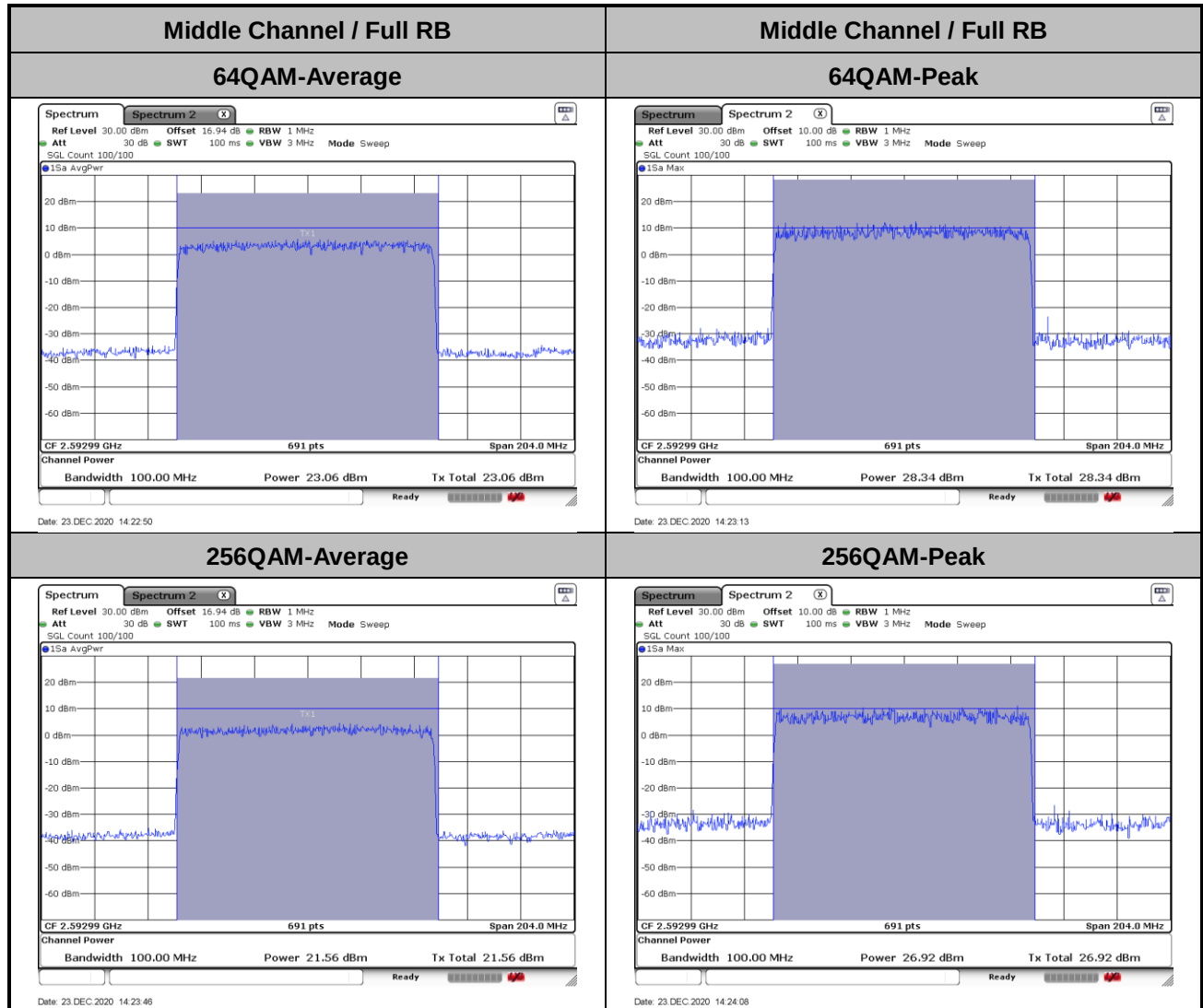


16QAM-Average



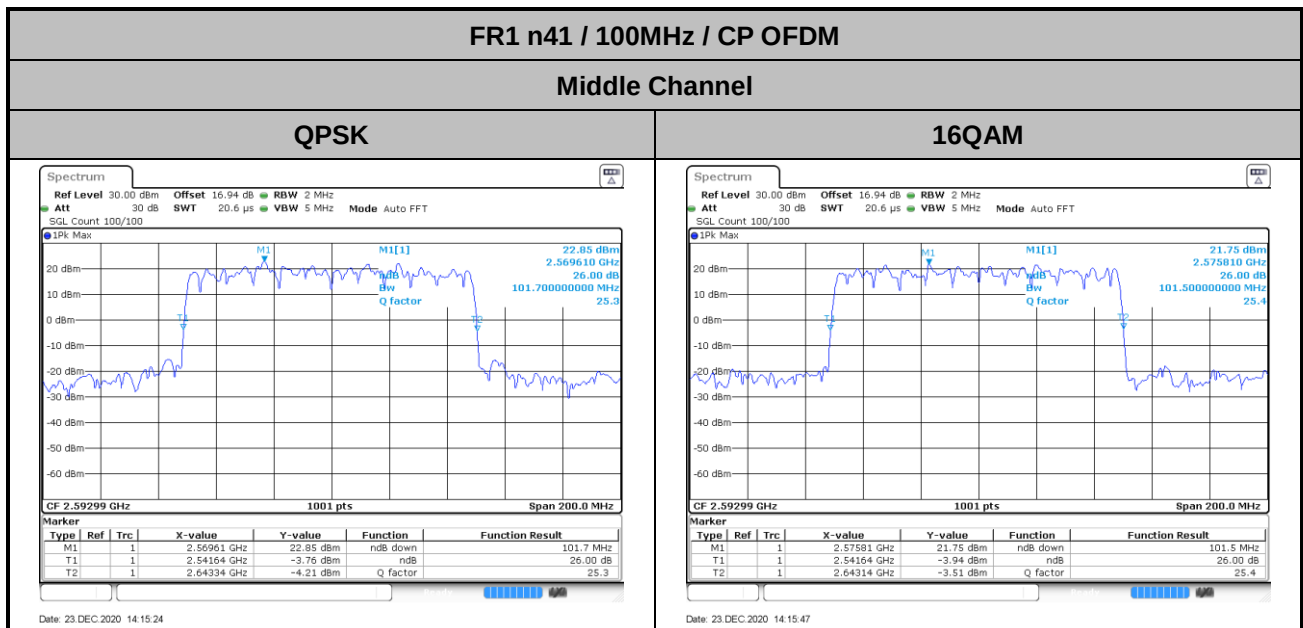
16QAM-Peak





**26dB Bandwidth**

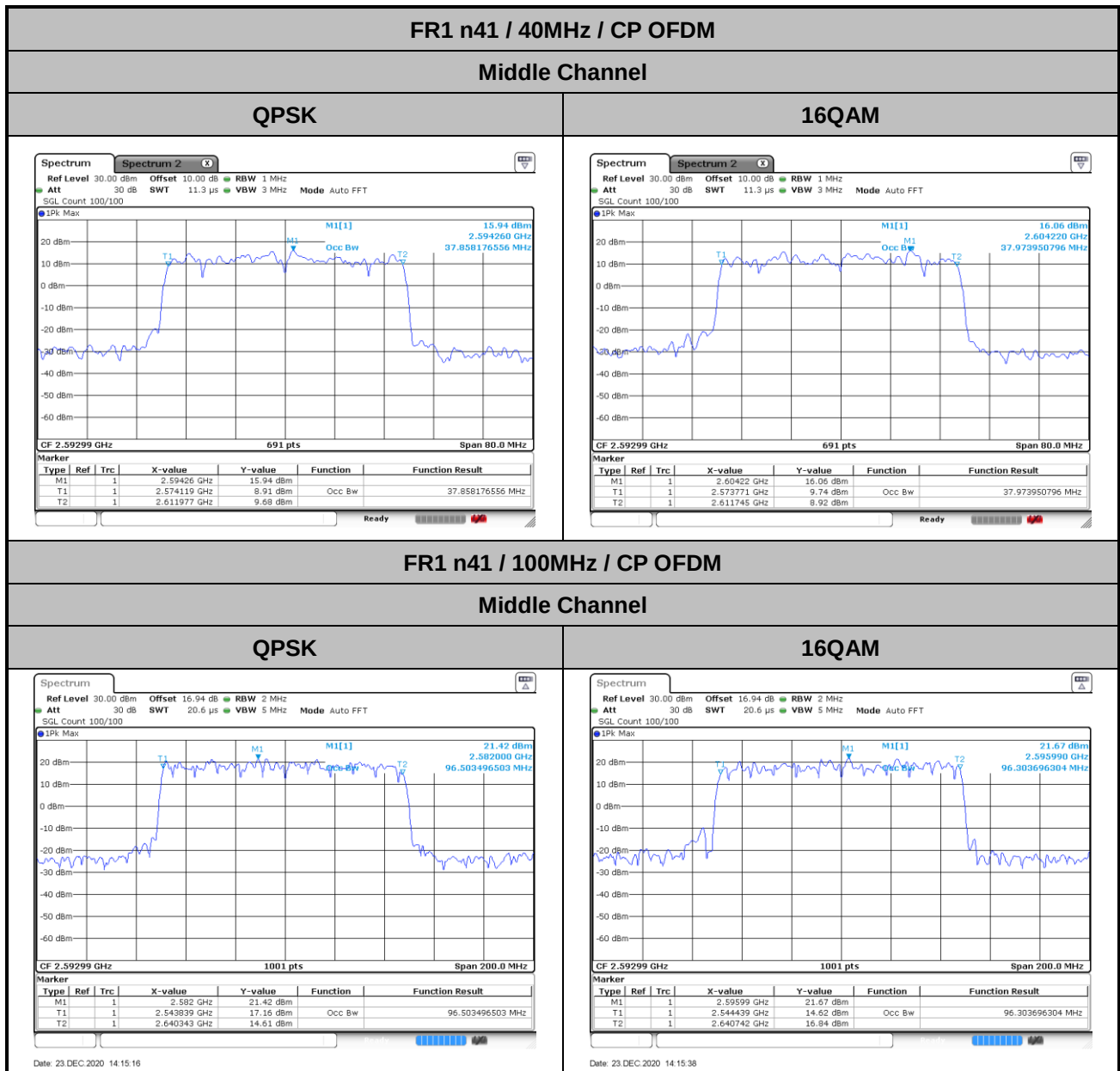
Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	101.7	101.5

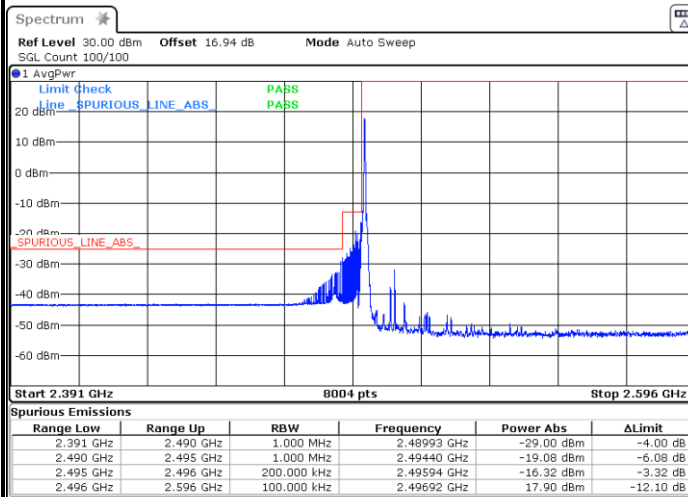
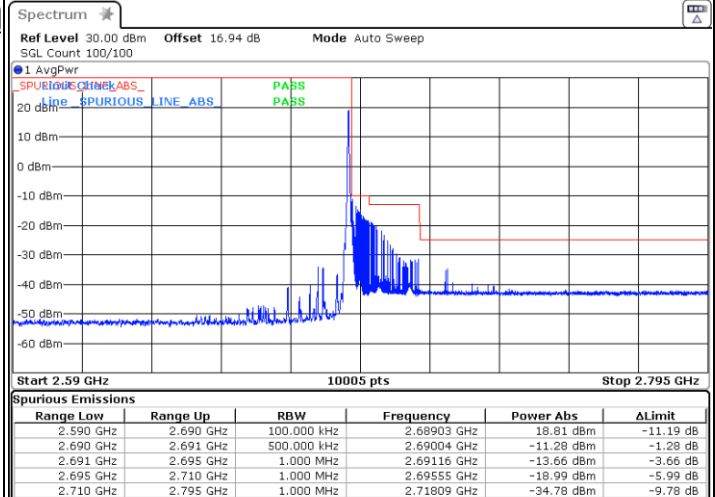
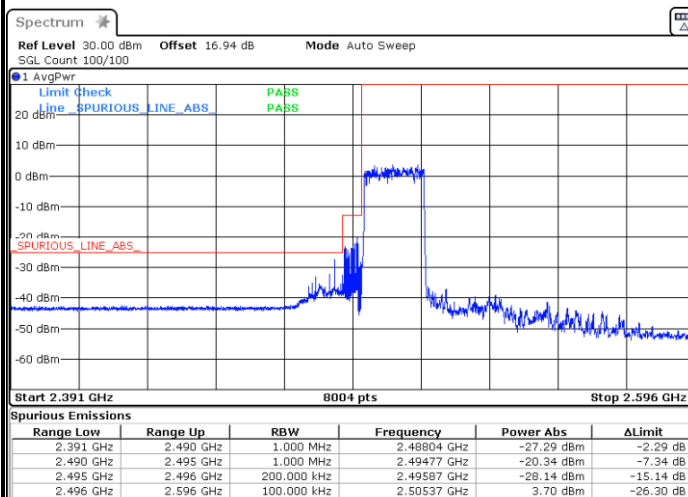
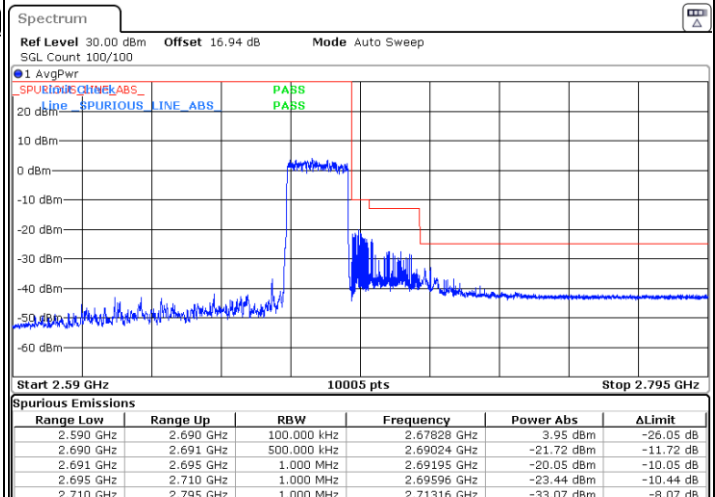




Occupied Bandwidth

Mode	FR1 n41 : OB BW(MHz) / CP OFDM			
BW	40MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Middle CH	37.858	37.974	96.503	96.304

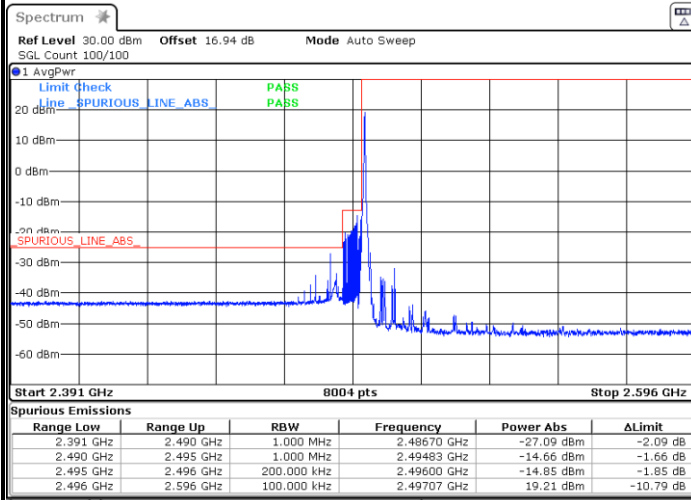


**Conducted Band Edge****FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

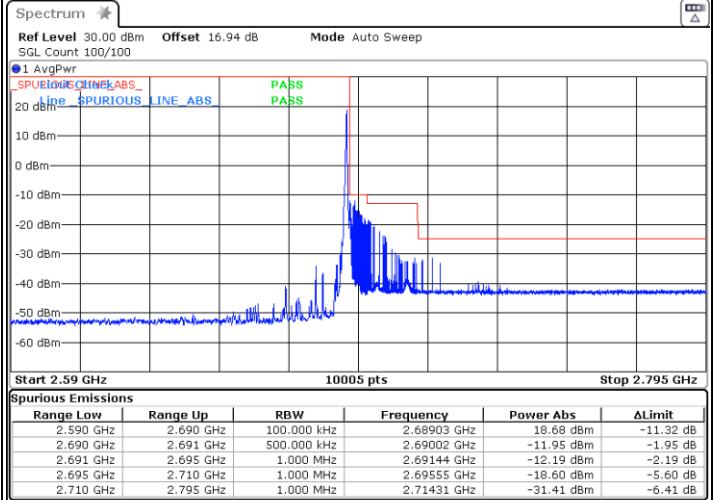


FR1 n41 / 20MHz / DFT-S OFDM / QPSK

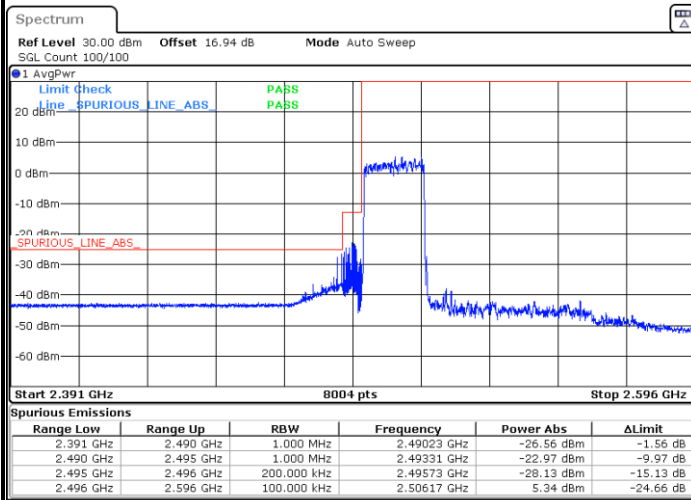
Lowest Band Edge / 1RB0



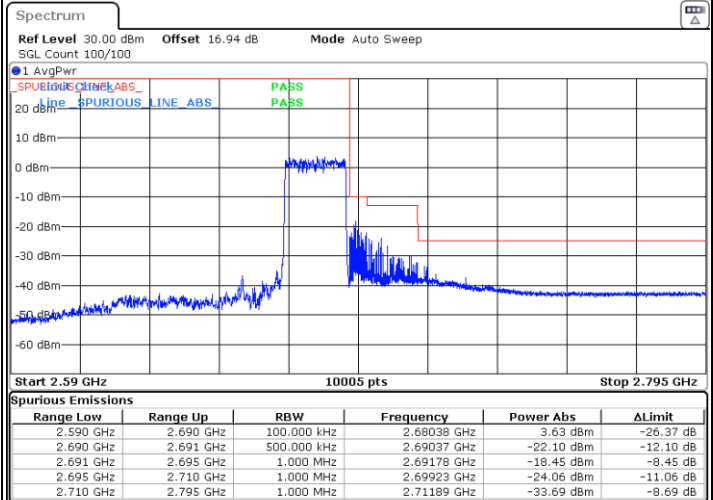
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



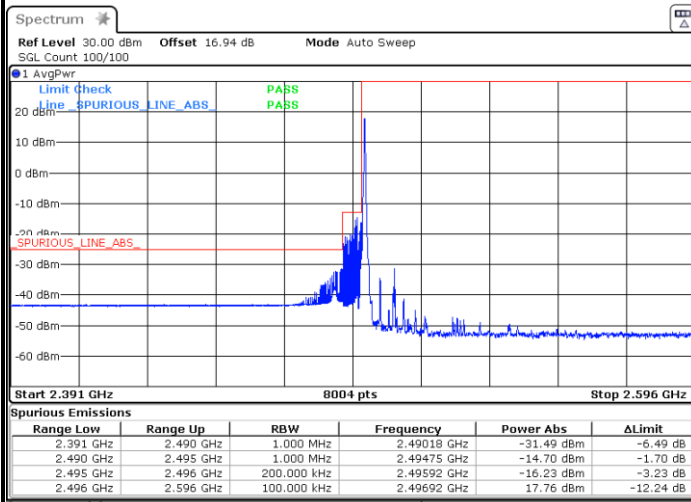
Highest Band Edge / Full RB



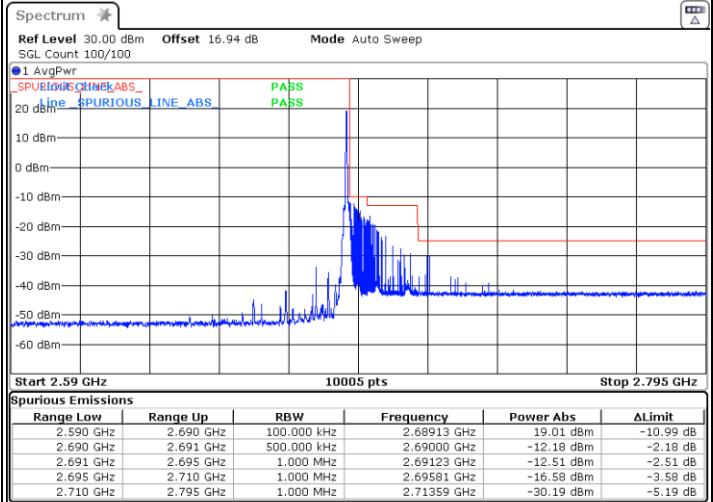


FR1 n41 / 20MHz / DFT-S OFDM / 16QAM

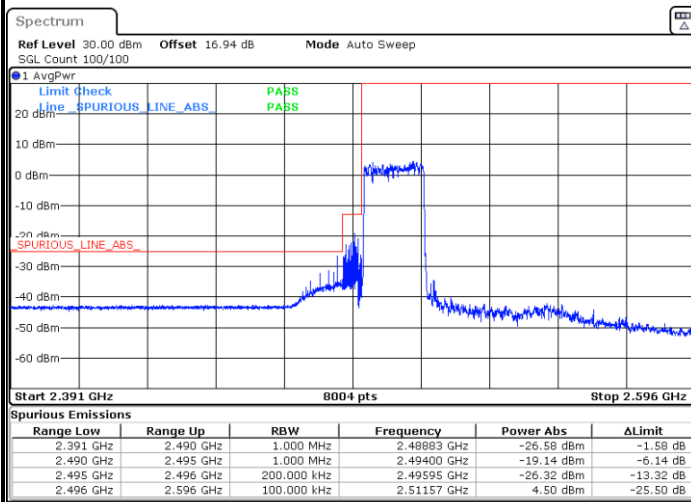
Lowest Band Edge / 1RB0



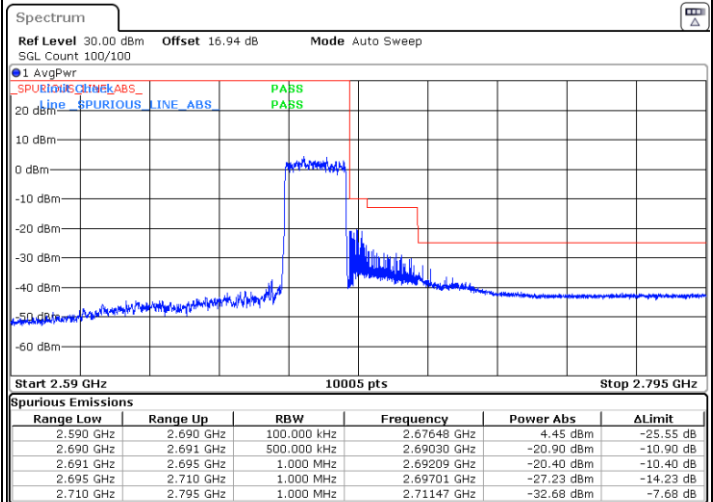
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



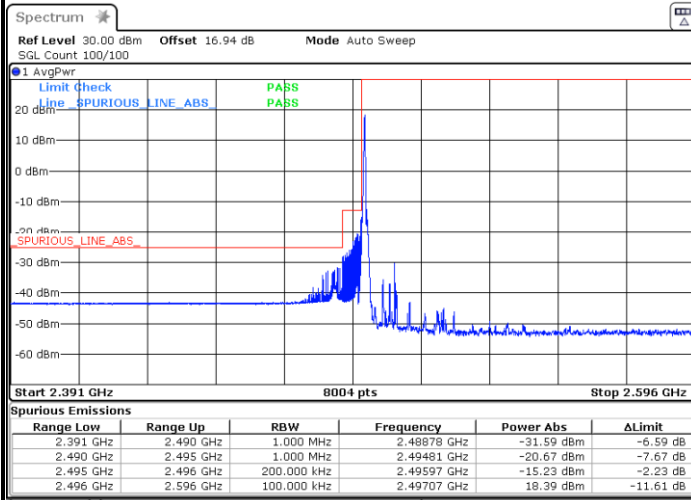
Highest Band Edge / Full RB



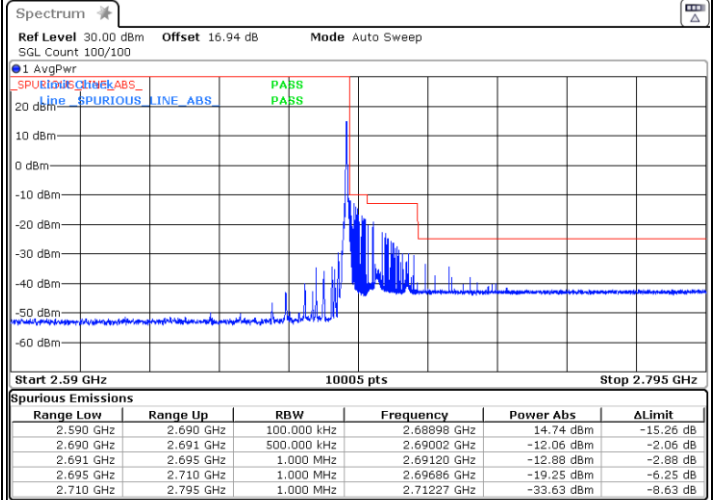


FR1 n41 / 20MHz / DFT-S OFDM / 64QAM

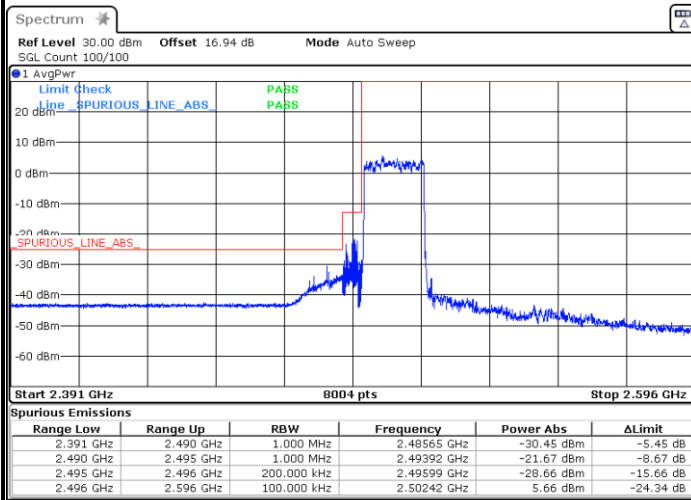
Lowest Band Edge / 1RB0



Highest Band Edge / 1RB24



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

