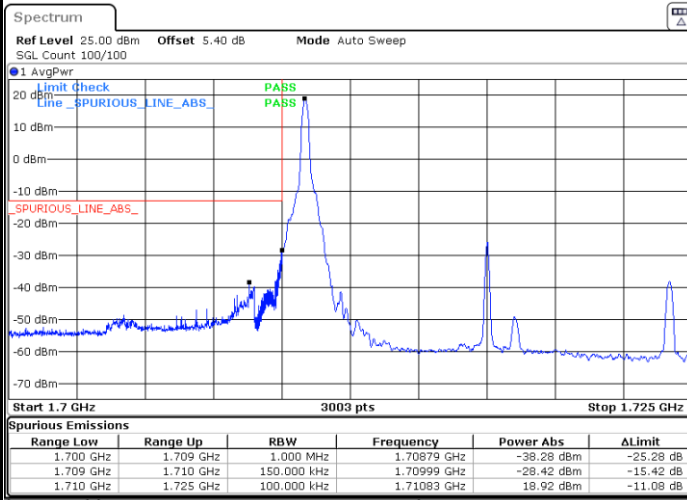




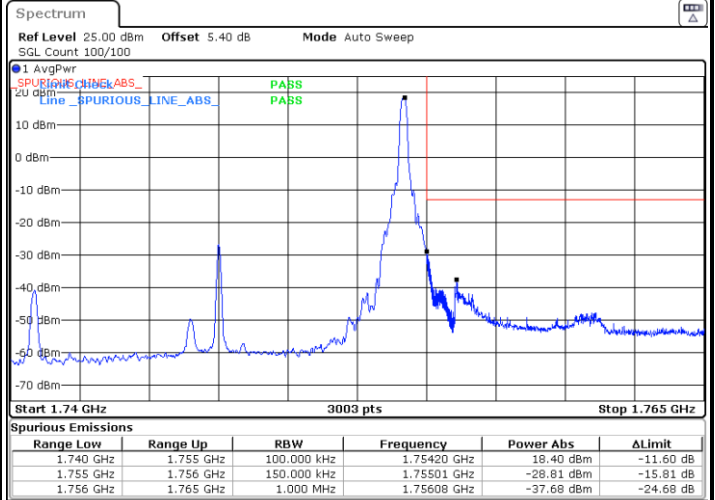
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



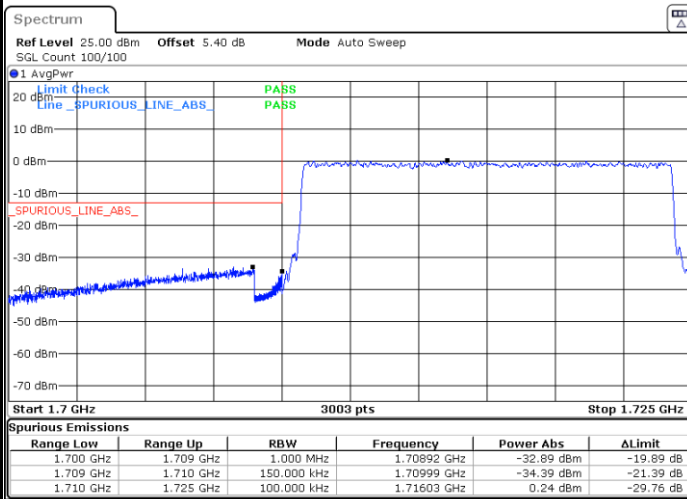
Date: 9.NOV.2022 15:04:46

Highest Band Edge / 1 RB



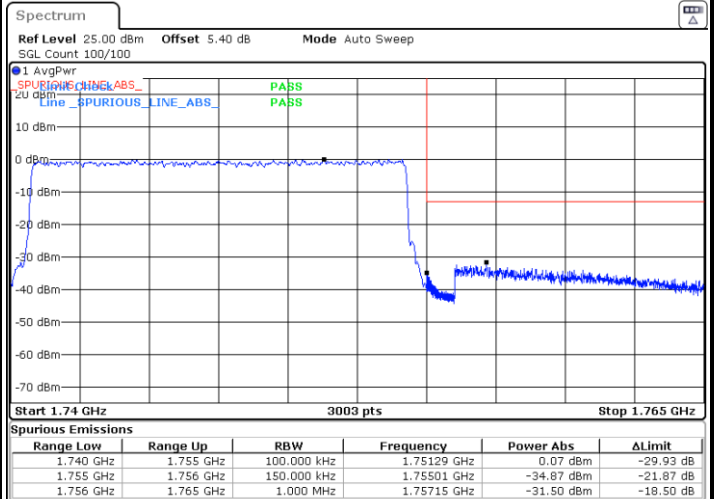
Date: 9.NOV.2022 15:06:28

Lowest Band Edge / Full RB



Date: 9.NOV.2022 15:05:21

Highest Band Edge / Full RB

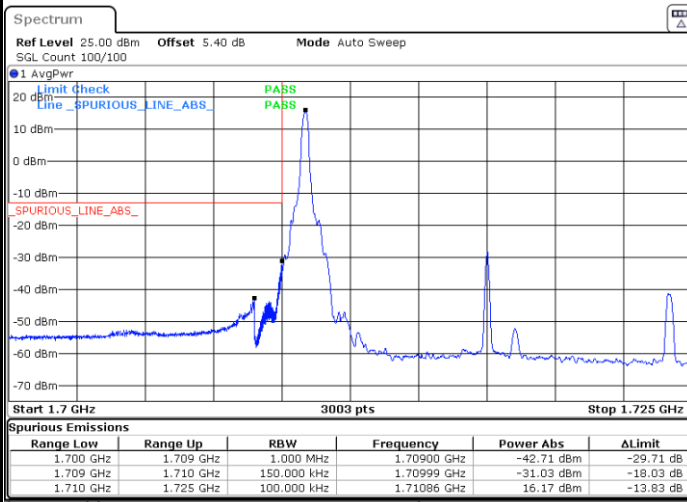


Date: 9.NOV.2022 15:05:54



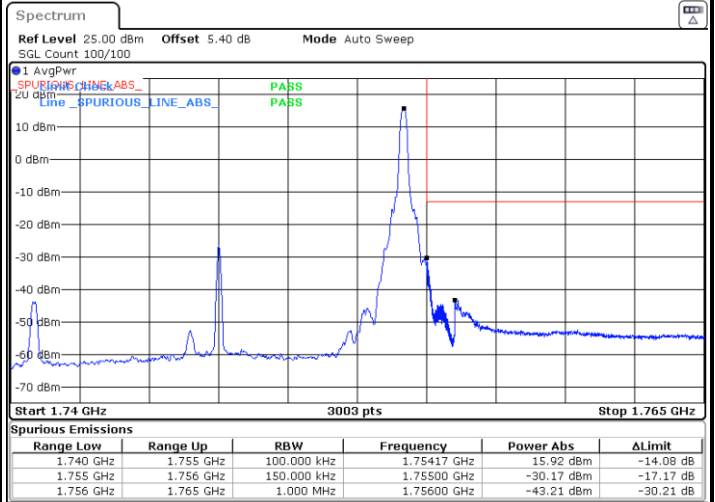
LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



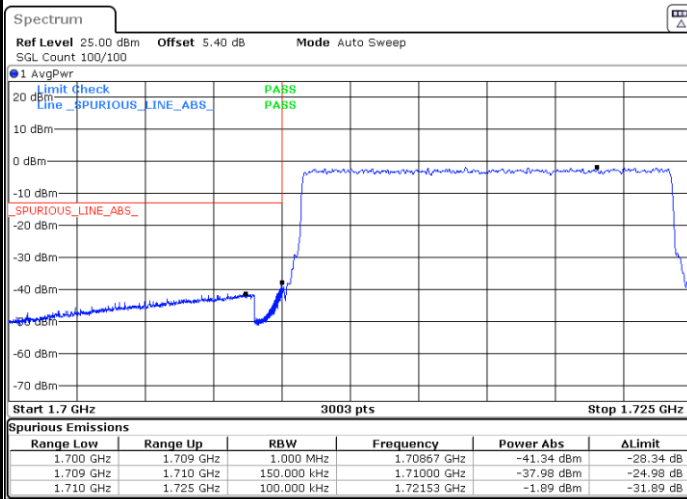
Date: 9.NOV.2022 15:11:36

Highest Band Edge / 1 RB



Date: 9.NOV.2022 15:07:05

Lowest Band Edge / Full RB



Date: 9.NOV.2022 15:11:05

Highest Band Edge / Full RB

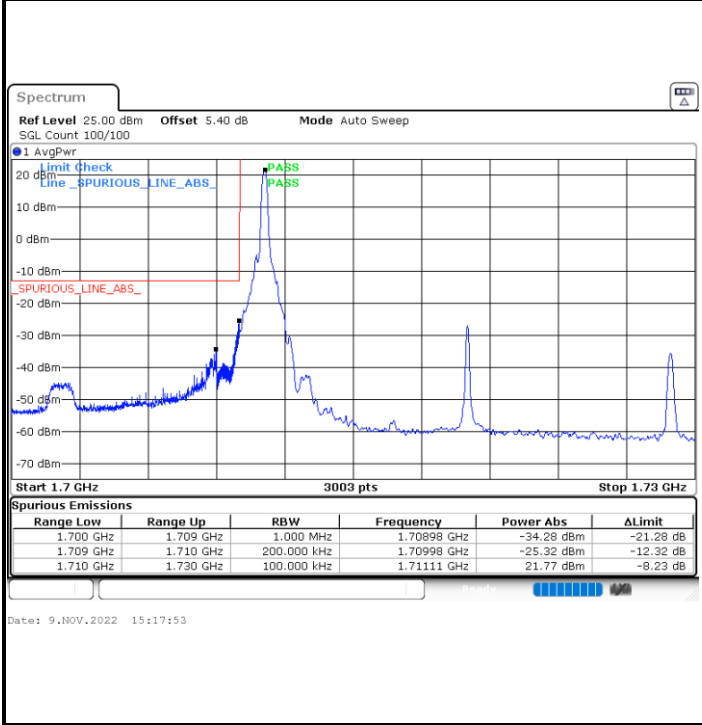


Date: 9.NOV.2022 15:07:42

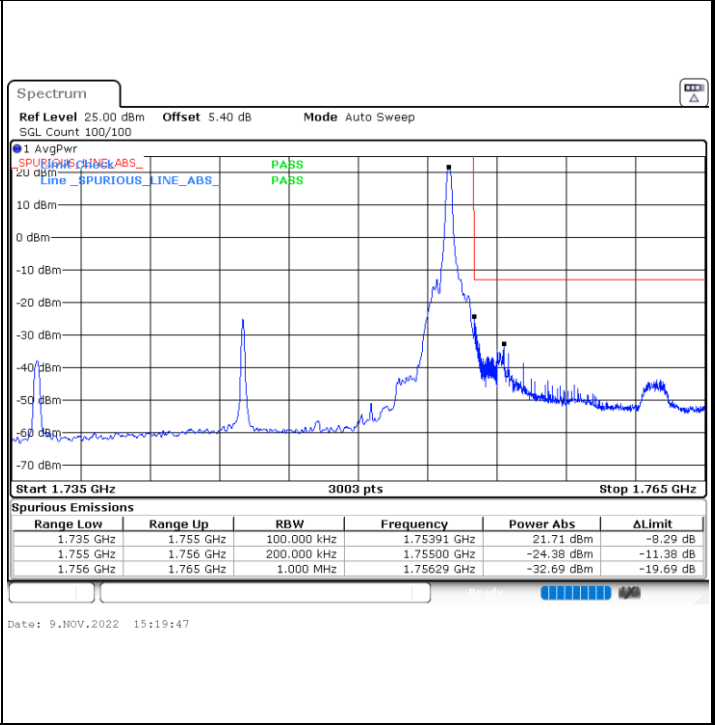


**LTE Band 4 / 20MHz / QPSK**

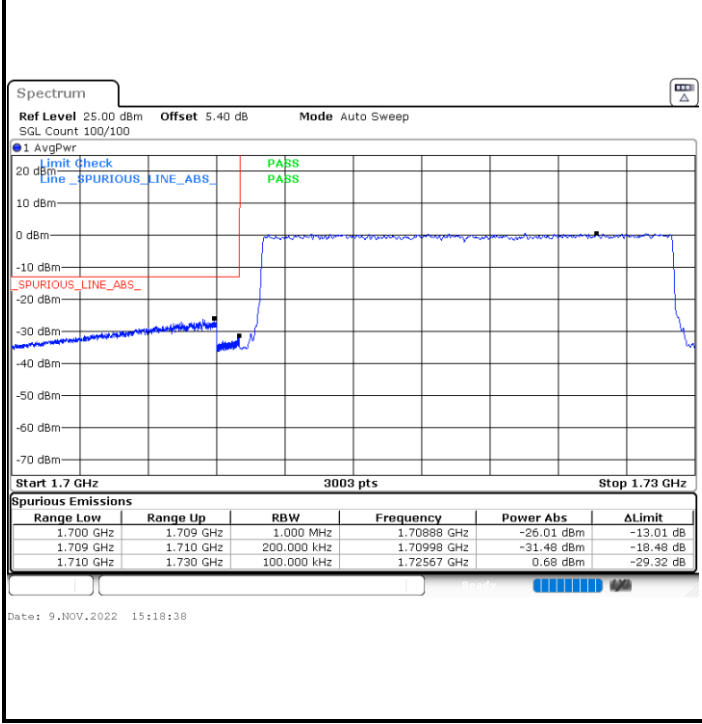
**Lowest Band Edge / 1 RB**



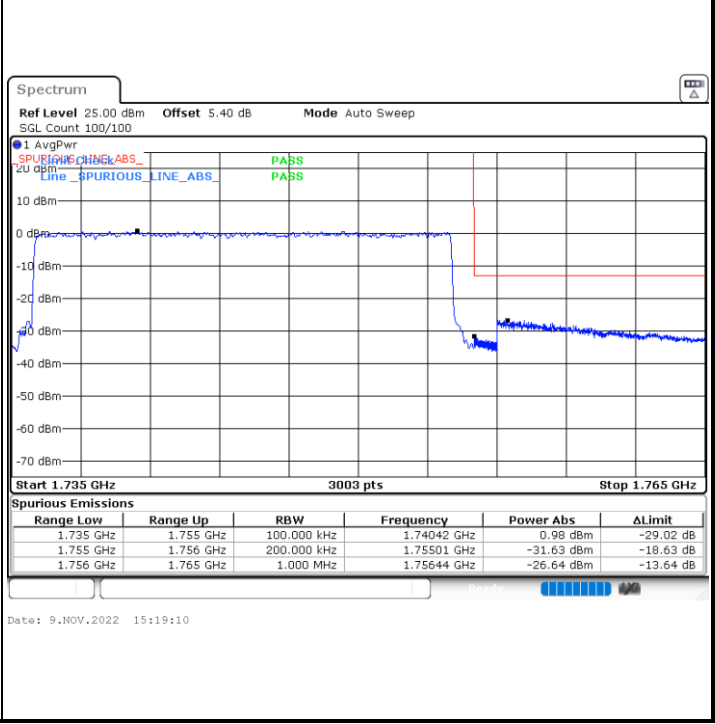
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



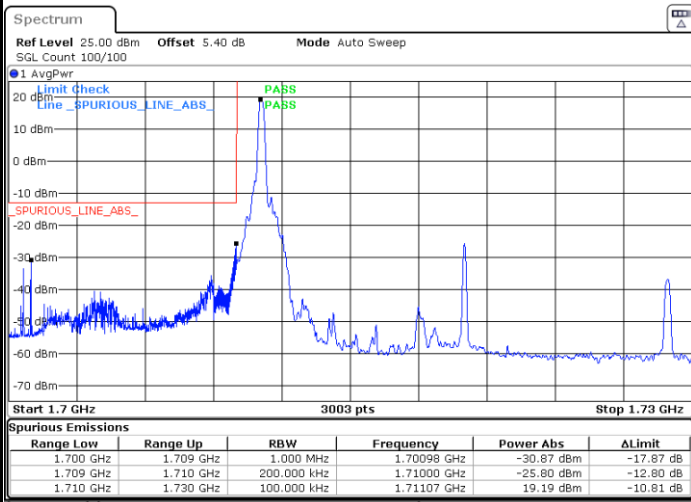
**Highest Band Edge / Full RB**





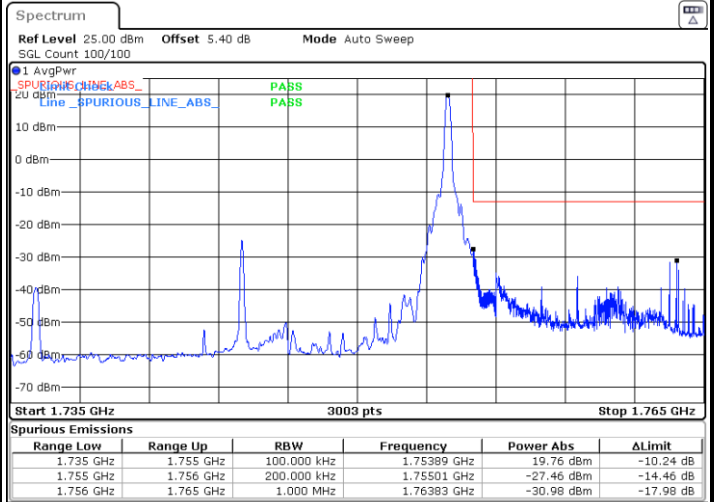
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



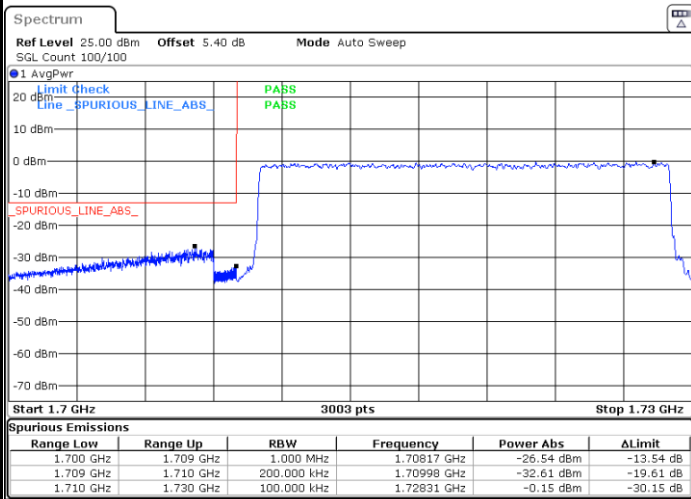
Date: 9.NOV.2022 15:22:29

Highest Band Edge / 1 RB



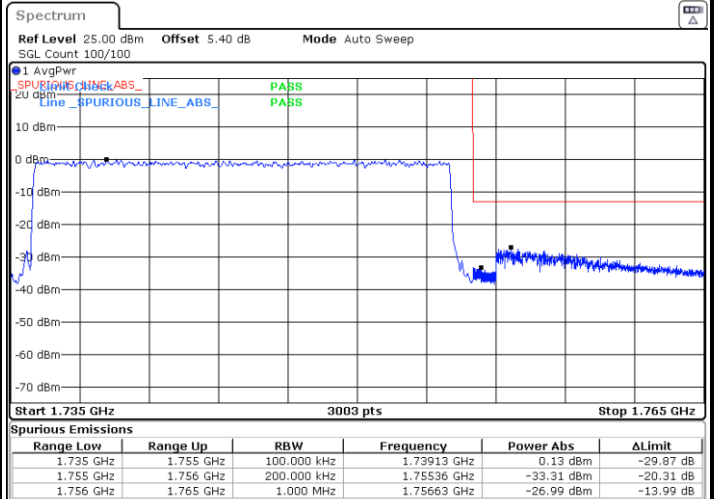
Date: 9.NOV.2022 15:20:36

Lowest Band Edge / Full RB



Date: 9.NOV.2022 15:22:04

Highest Band Edge / Full RB

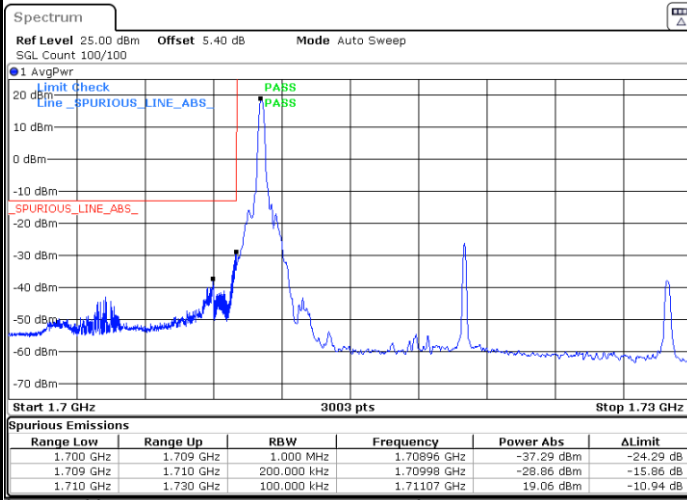


Date: 9.NOV.2022 15:21:35



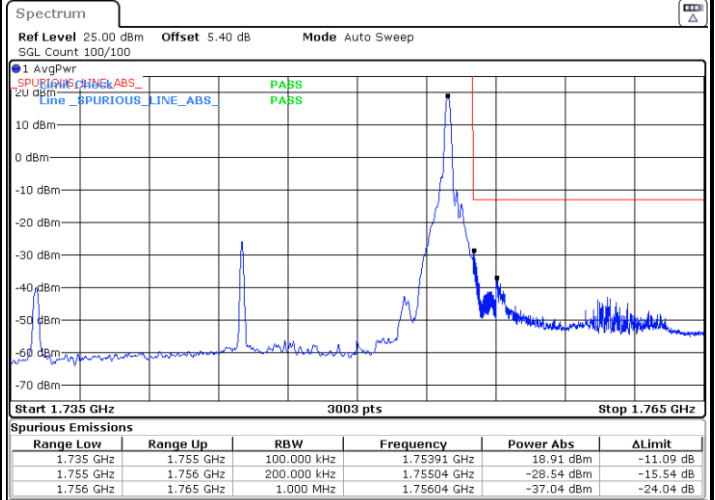
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



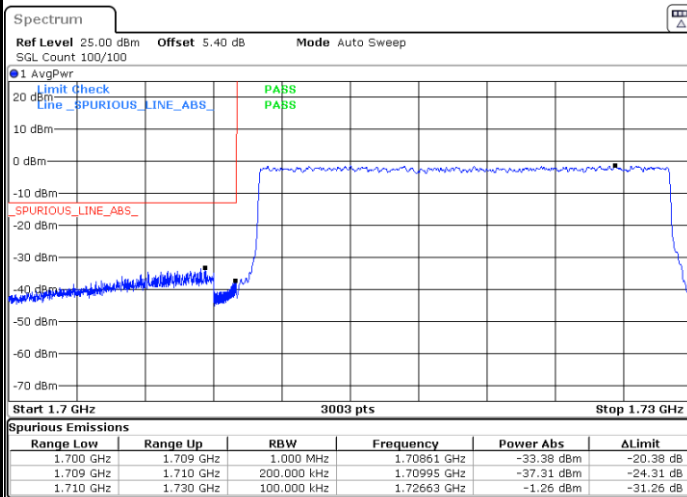
Date: 9.NOV.2022 15:23:00

Highest Band Edge / 1 RB



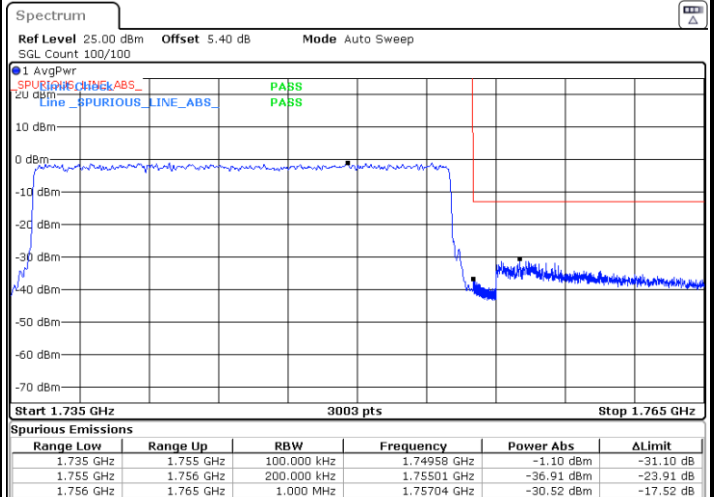
Date: 9.NOV.2022 15:24:39

Lowest Band Edge / Full RB



Date: 9.NOV.2022 15:23:34

Highest Band Edge / Full RB

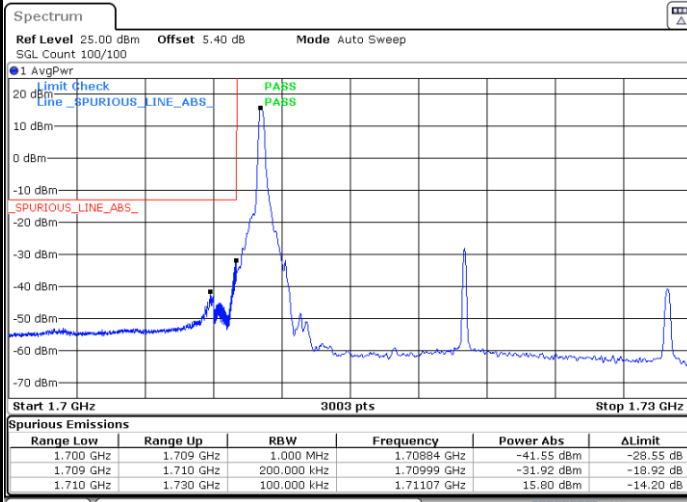


Date: 9.NOV.2022 15:24:01



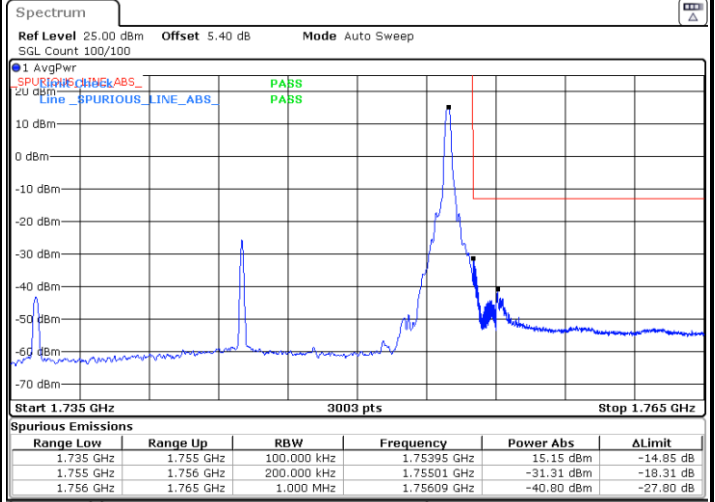
LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



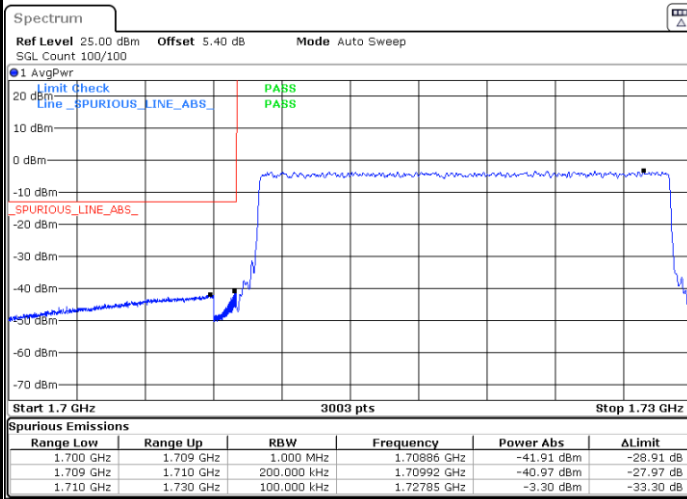
Date: 9.NOV.2022 15:27:58

Highest Band Edge / 1 RB



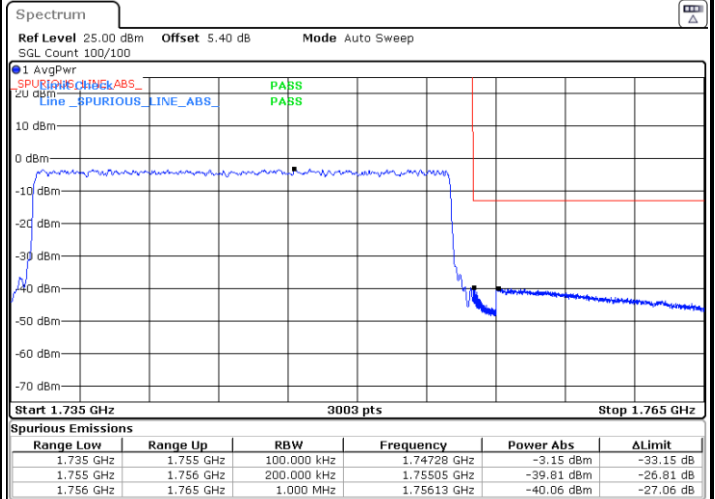
Date: 9.NOV.2022 15:25:18

Lowest Band Edge / Full RB



Date: 9.NOV.2022 15:27:29

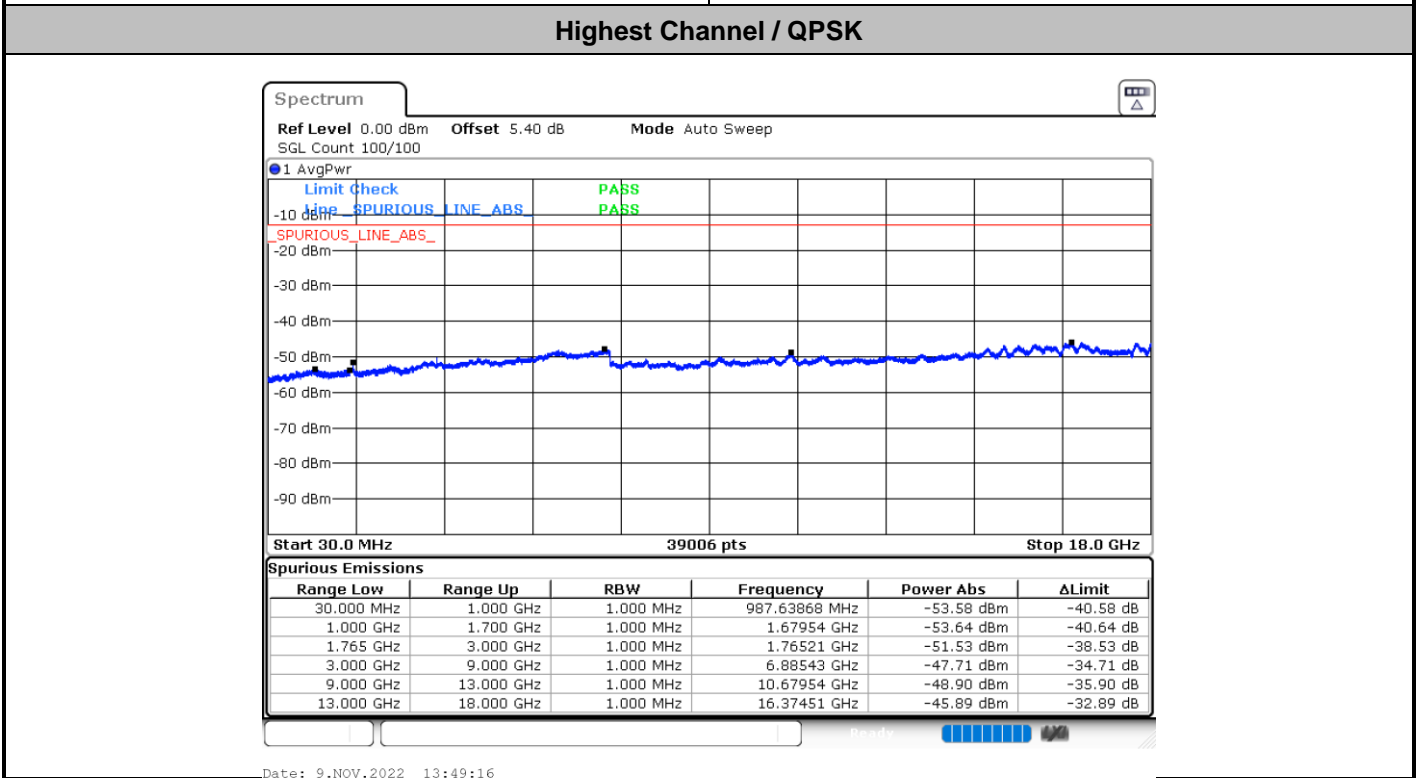
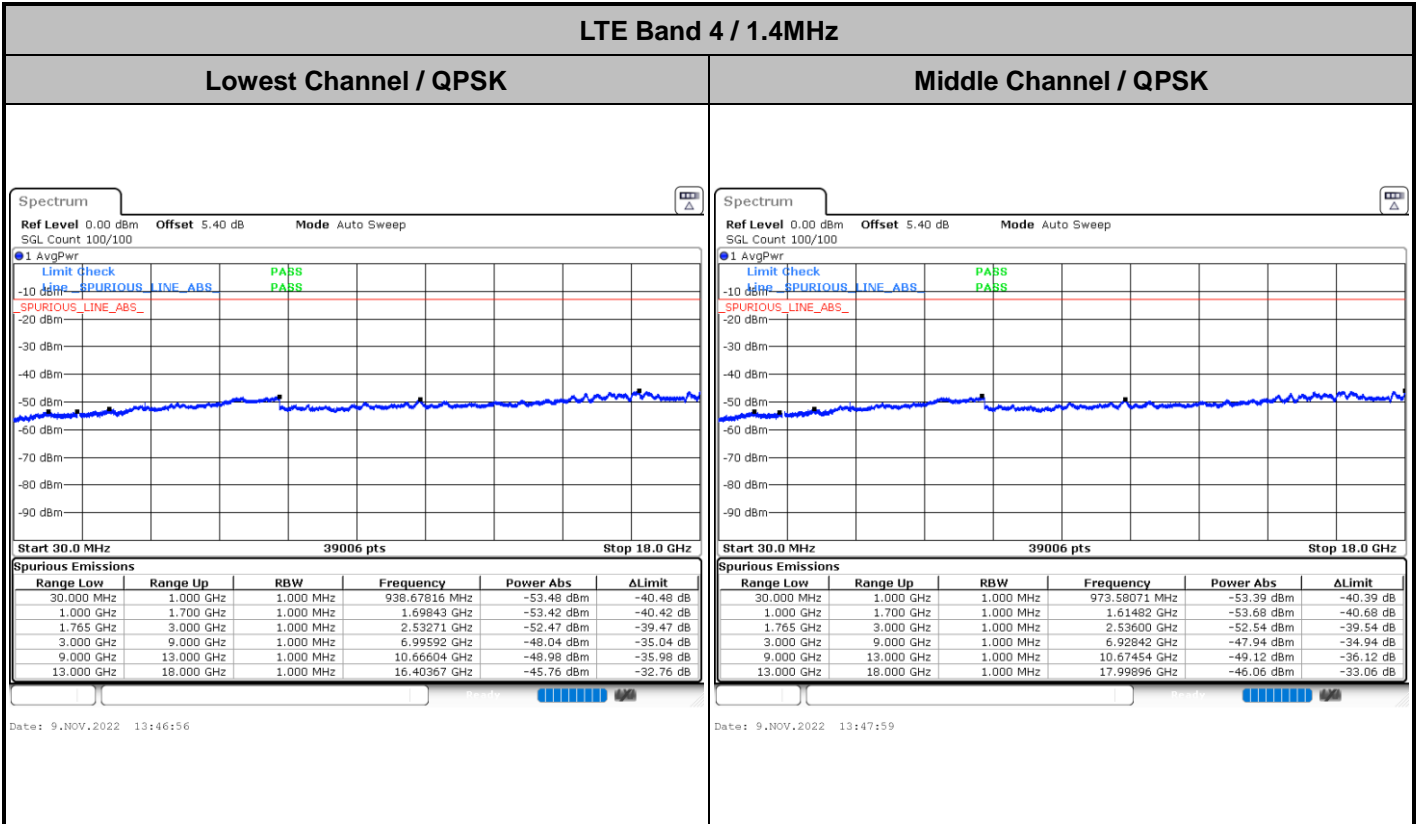
Highest Band Edge / Full RB



Date: 9.NOV.2022 15:25:54



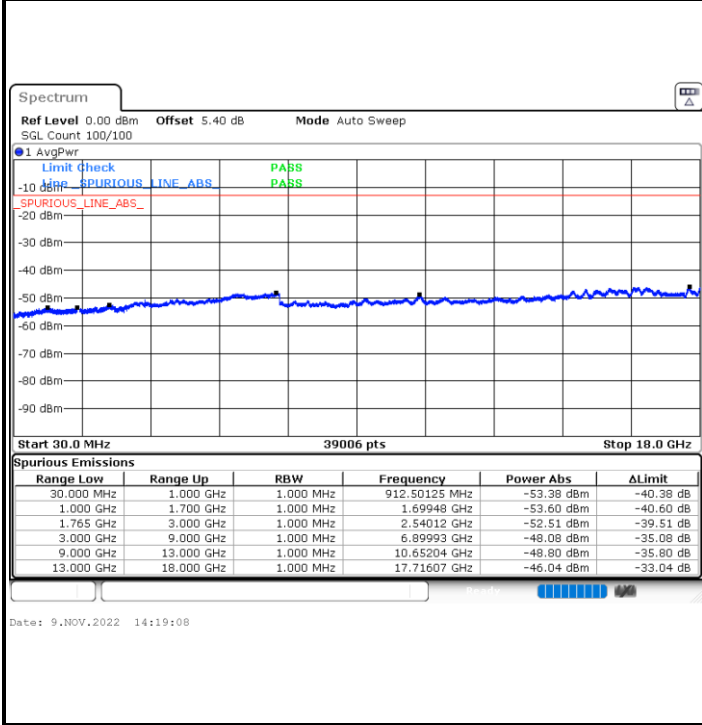
# Conducted Spurious Emission



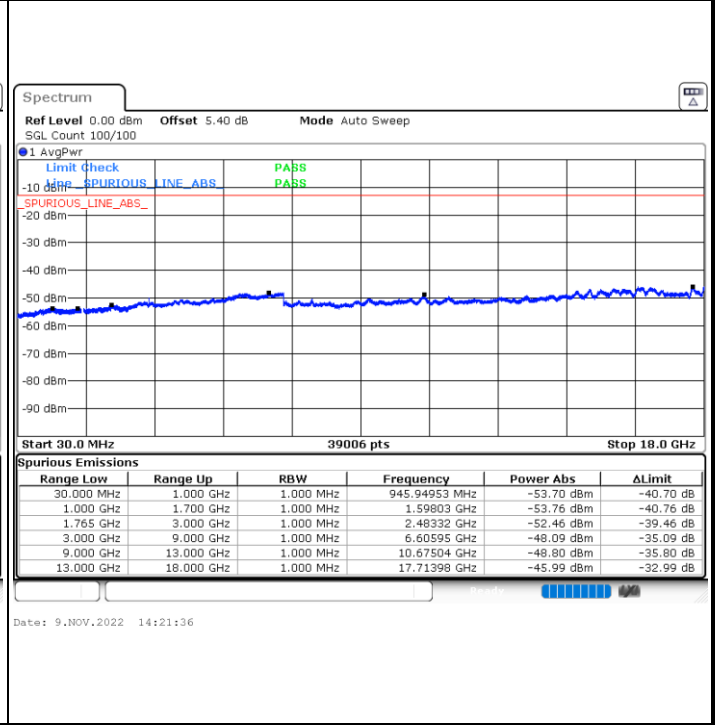


**LTE Band 4 / 3MHz**

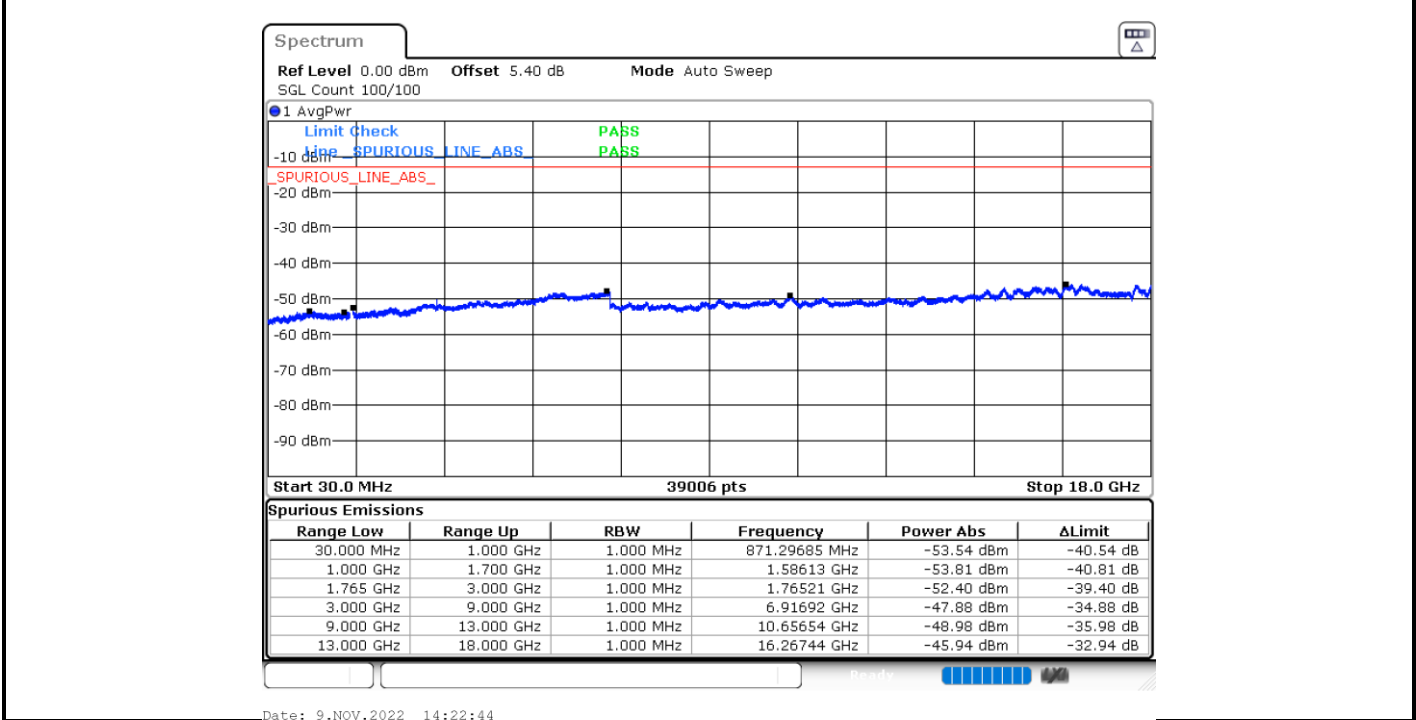
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

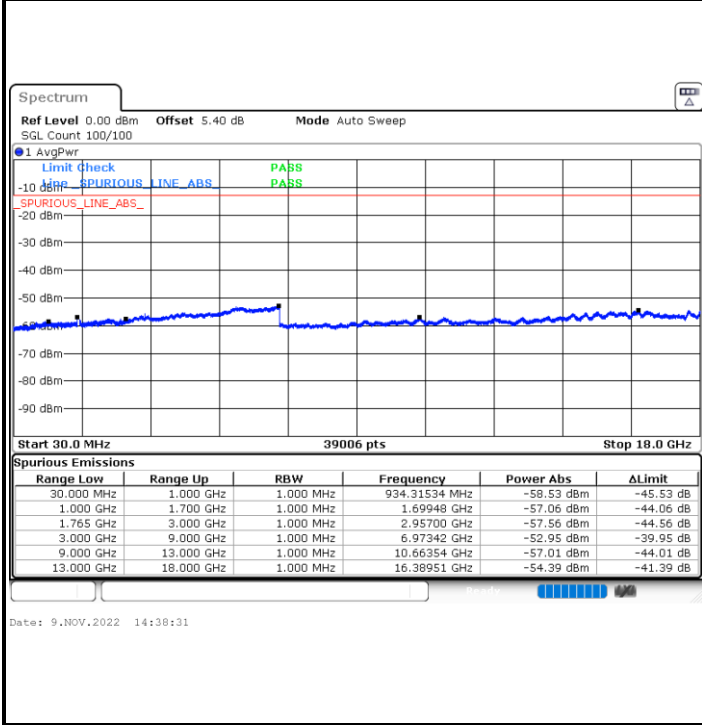






**LTE Band 4 / 5MHz**

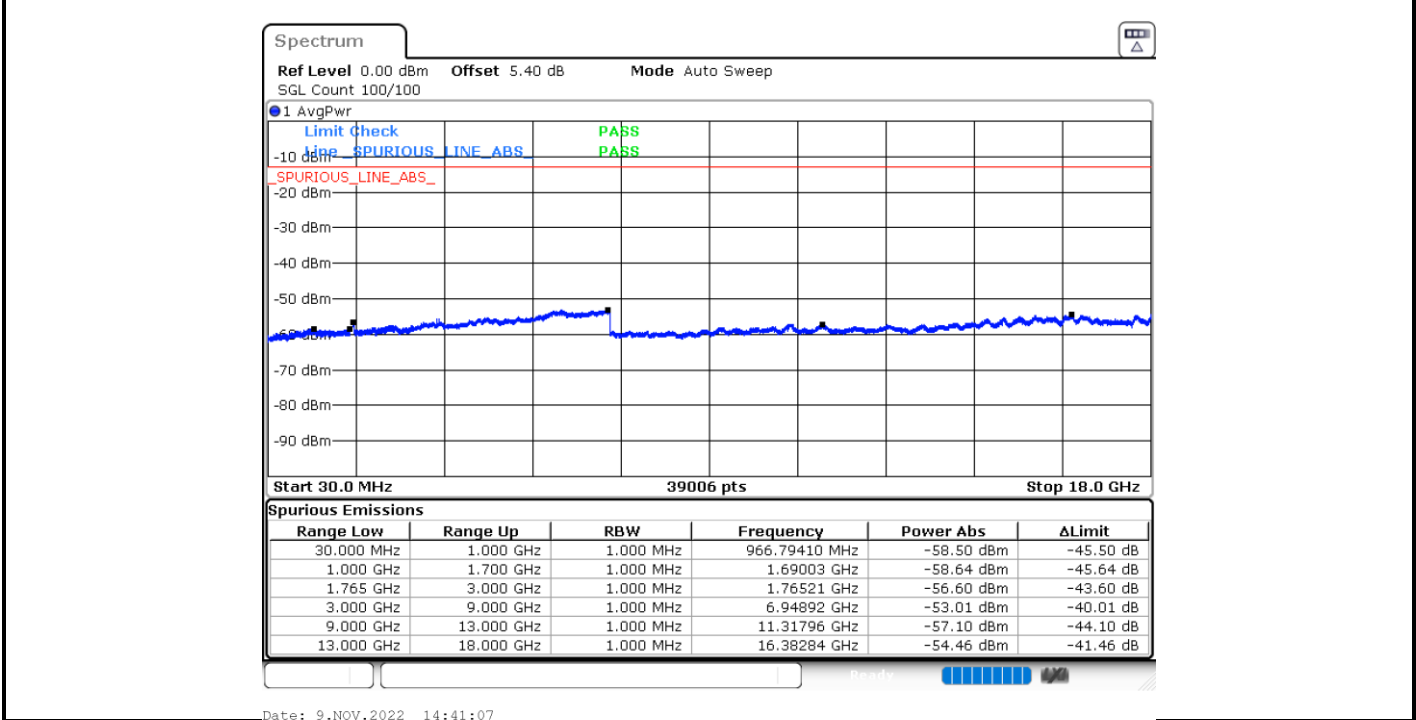
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

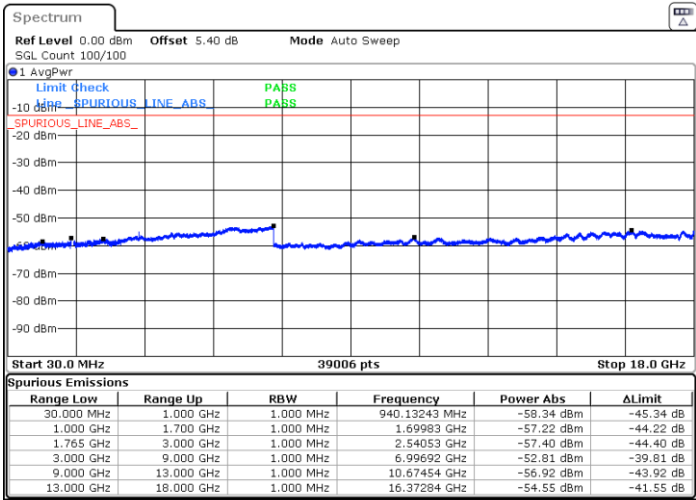




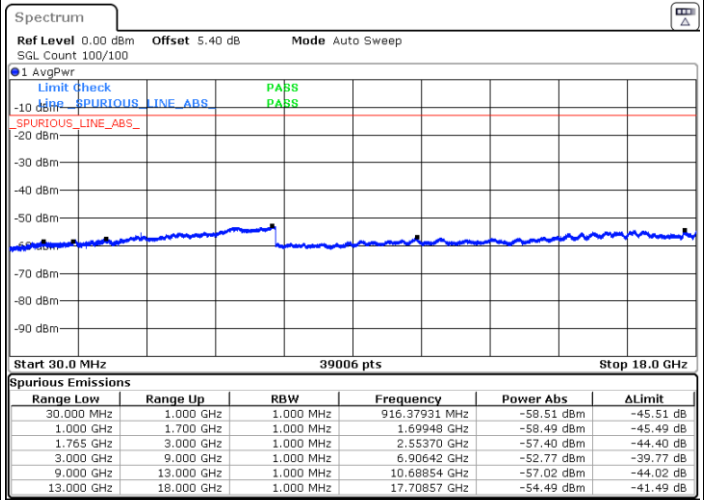
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

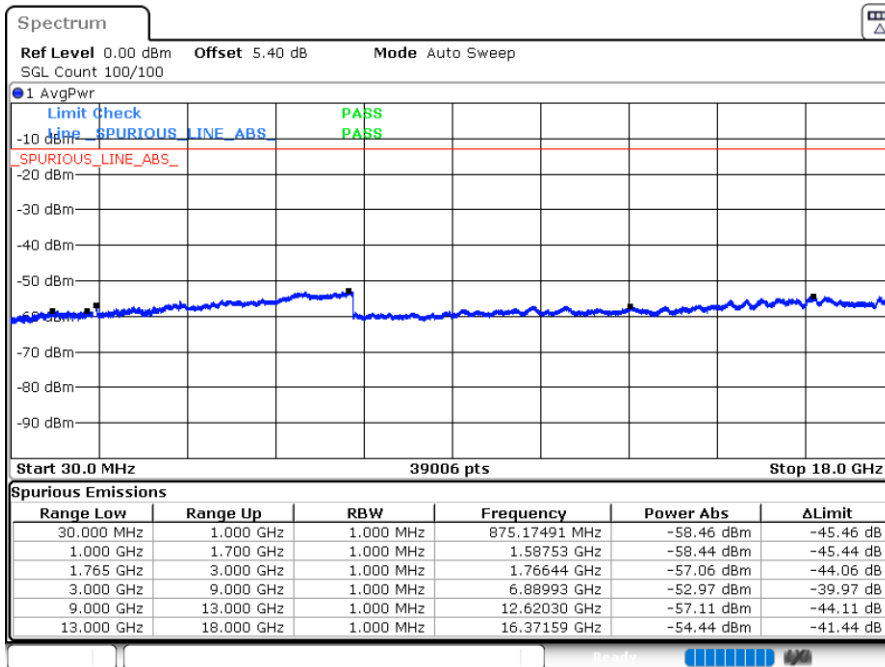


Date: 9.NOV.2022 14:55:00



Date: 9.NOV.2022 14:56:16

Highest Channel / QPSK

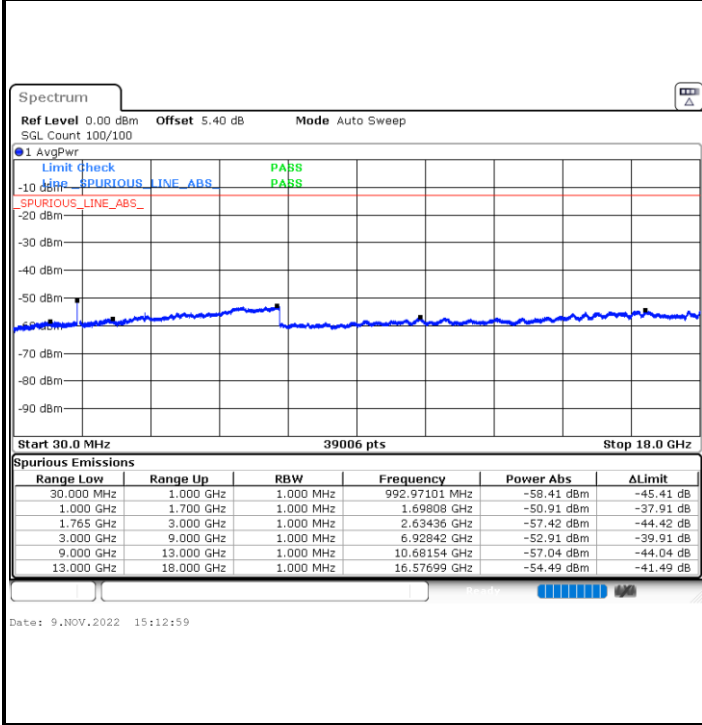


Date: 9.NOV.2022 14:57:17

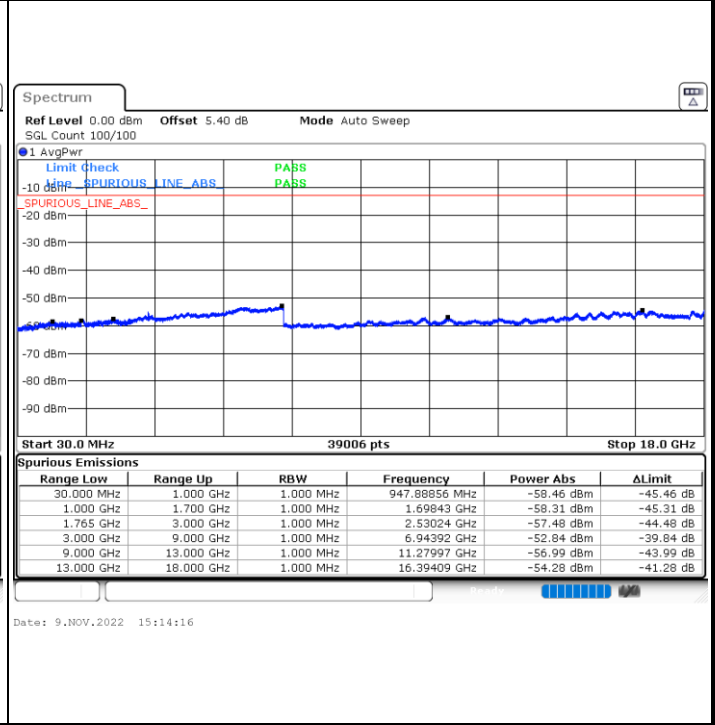


**LTE Band 4 / 15MHz**

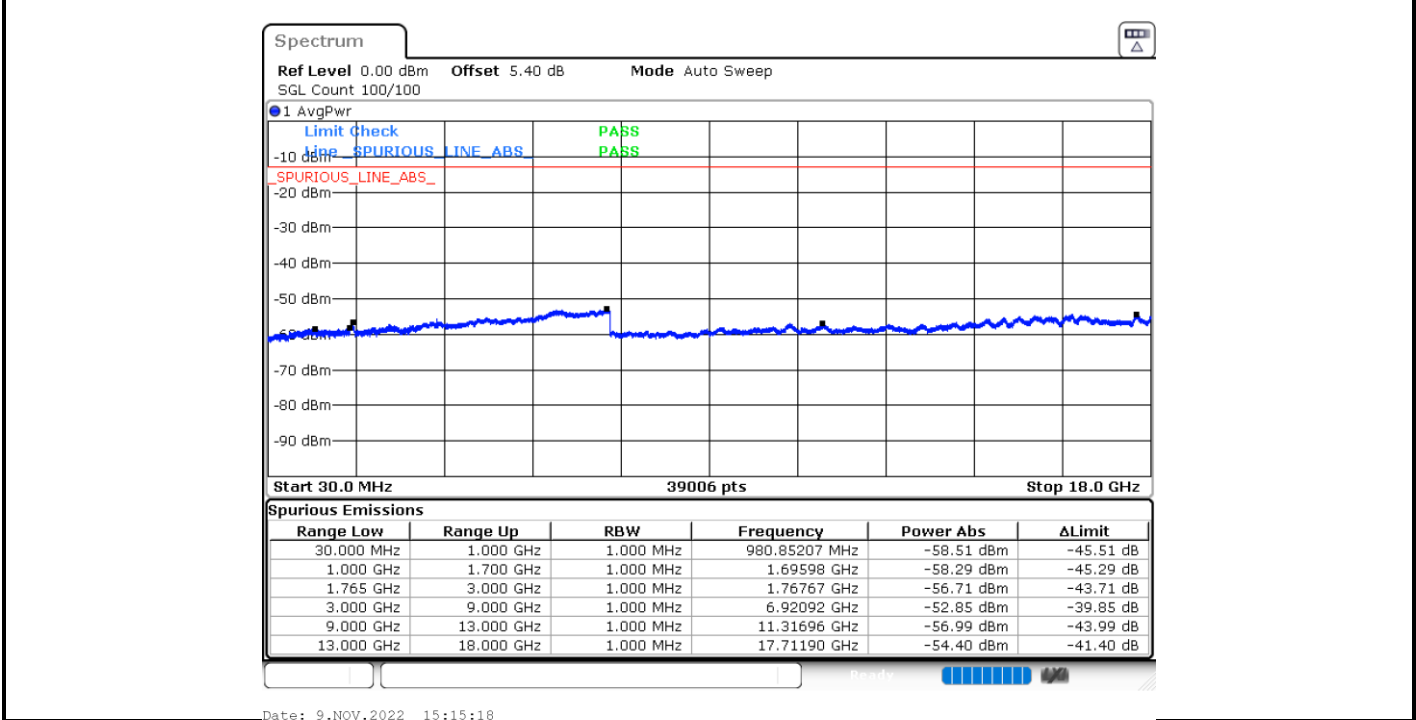
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



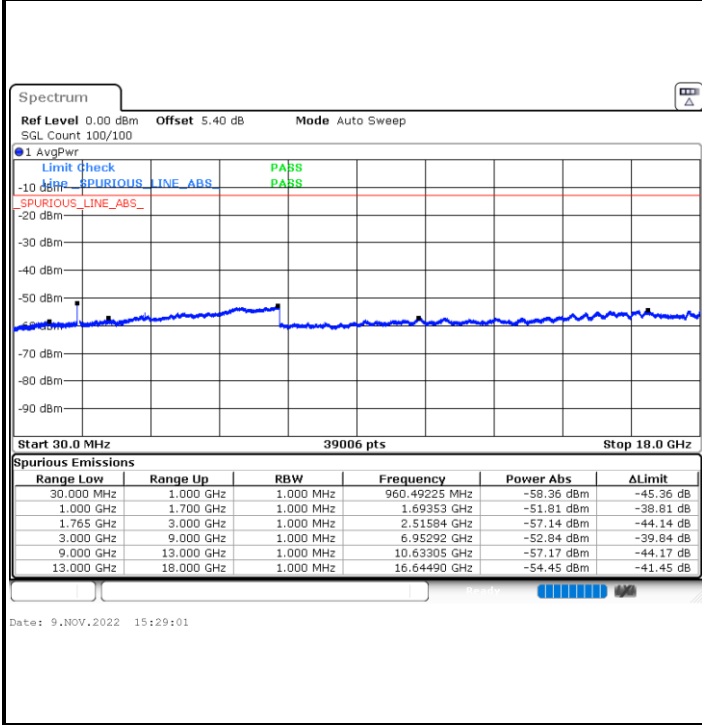
**Highest Channel / QPSK**





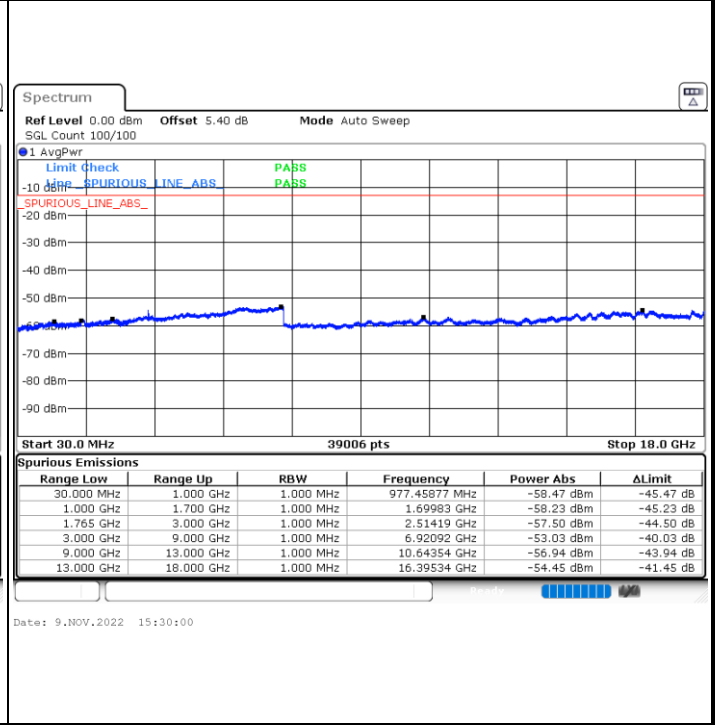
**LTE Band 4 / 20MHz**

**Lowest Channel / QPSK**



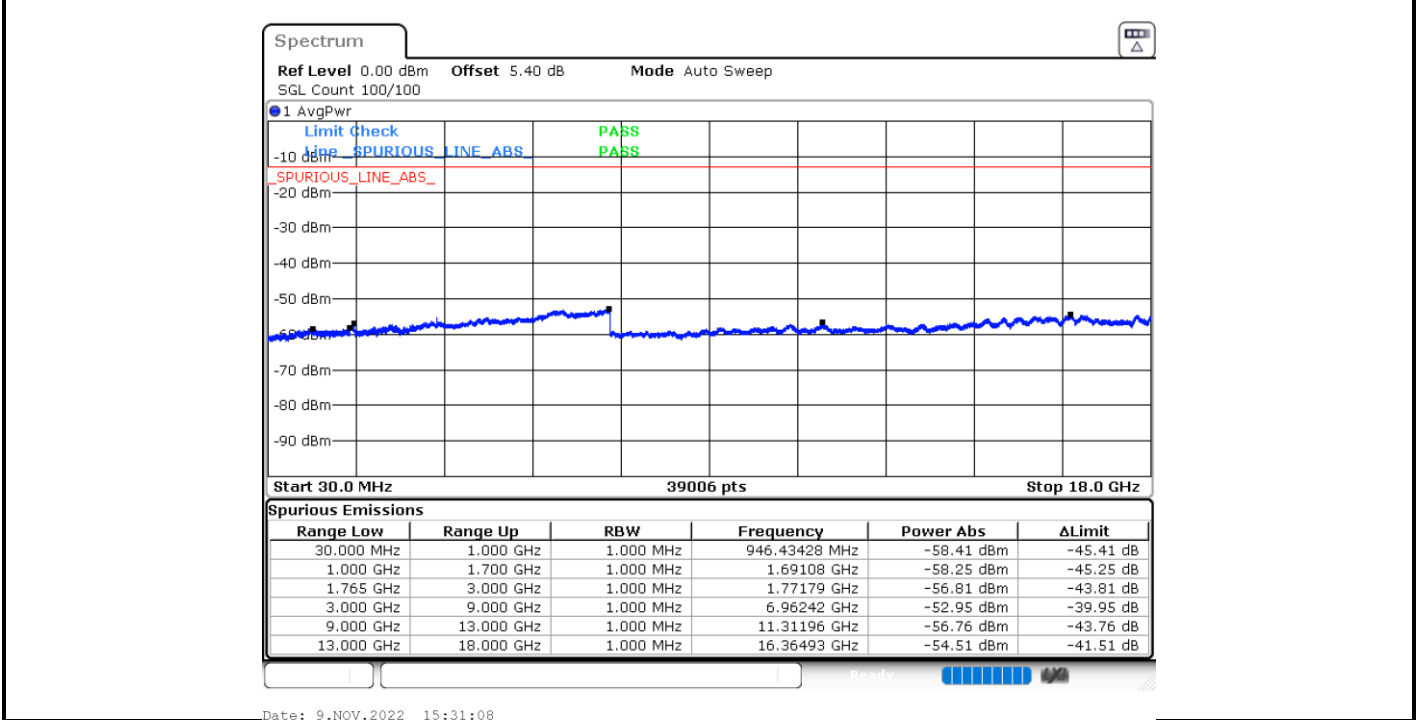
Date: 9.NOV.2022 15:29:01

**Middle Channel / QPSK**



Date: 9.NOV.2022 15:30:00

**Highest Channel / QPSK**



Date: 9.NOV.2022 15:31:08



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

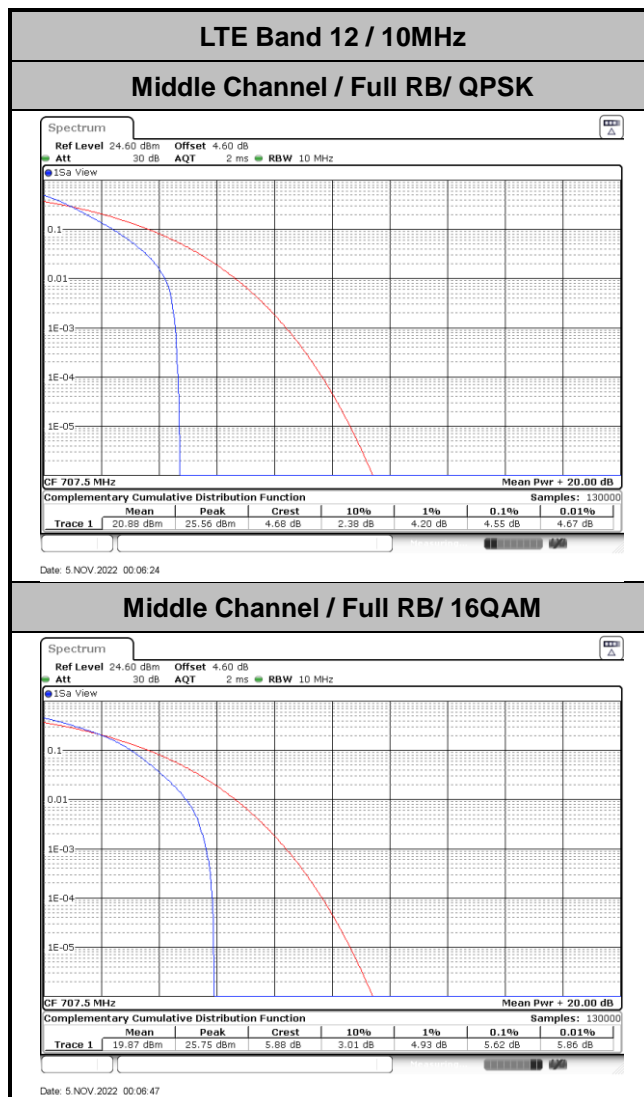
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

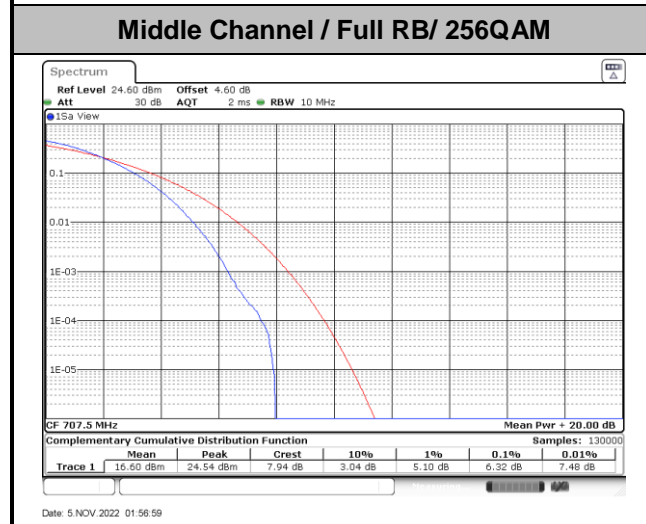
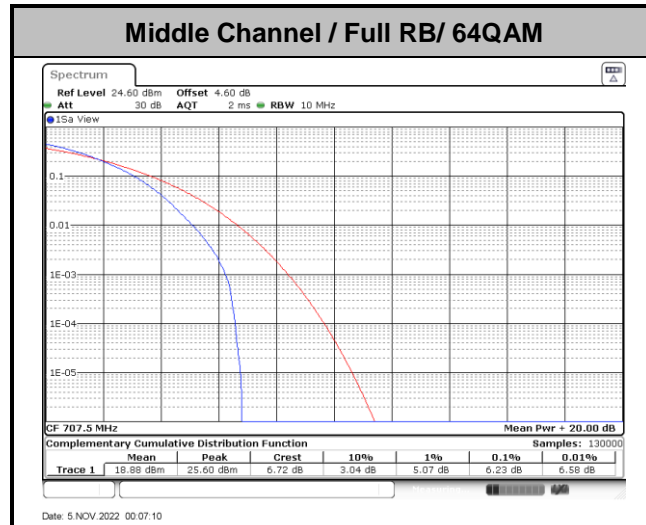


# LTE Band 12

## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.62	6.23	6.32	PASS

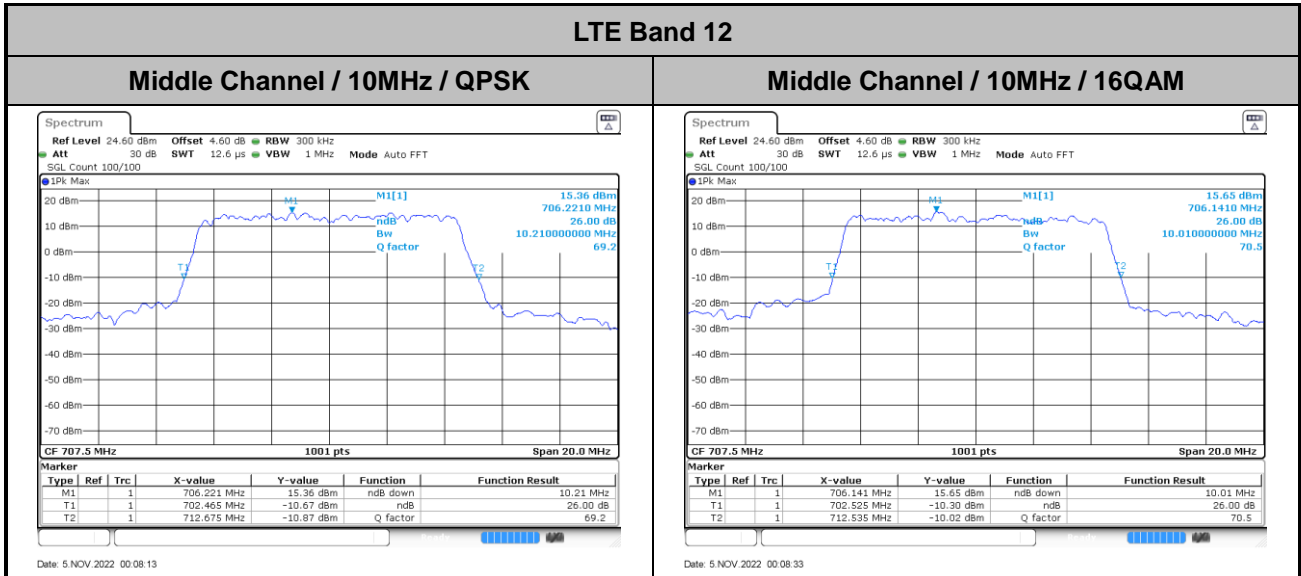






**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.21	10.01

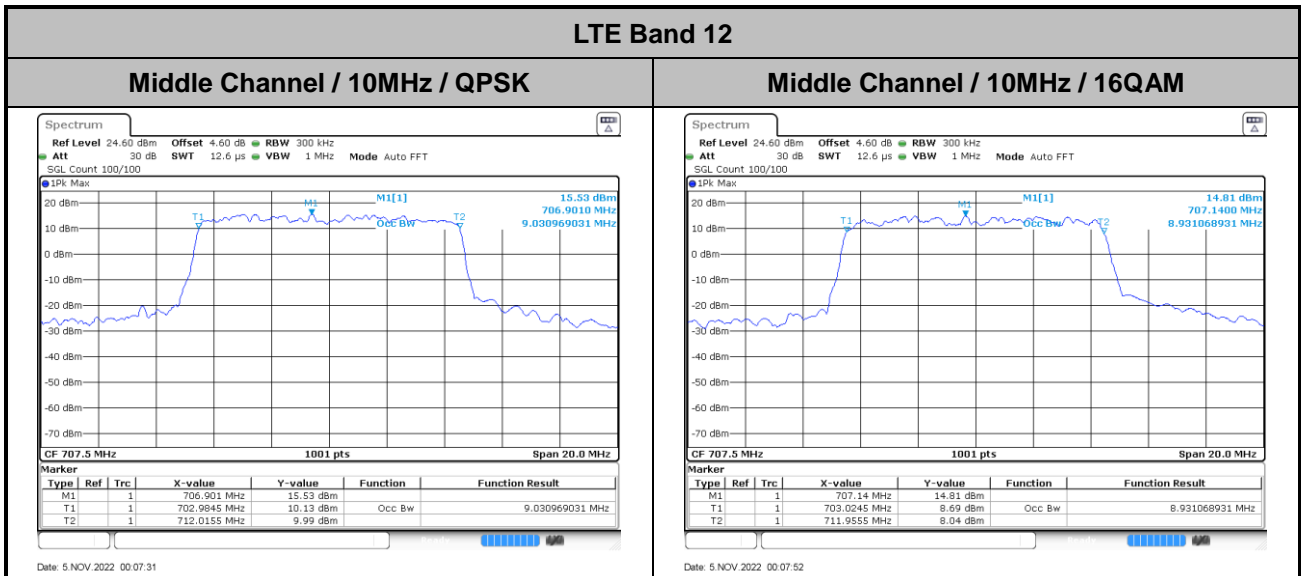






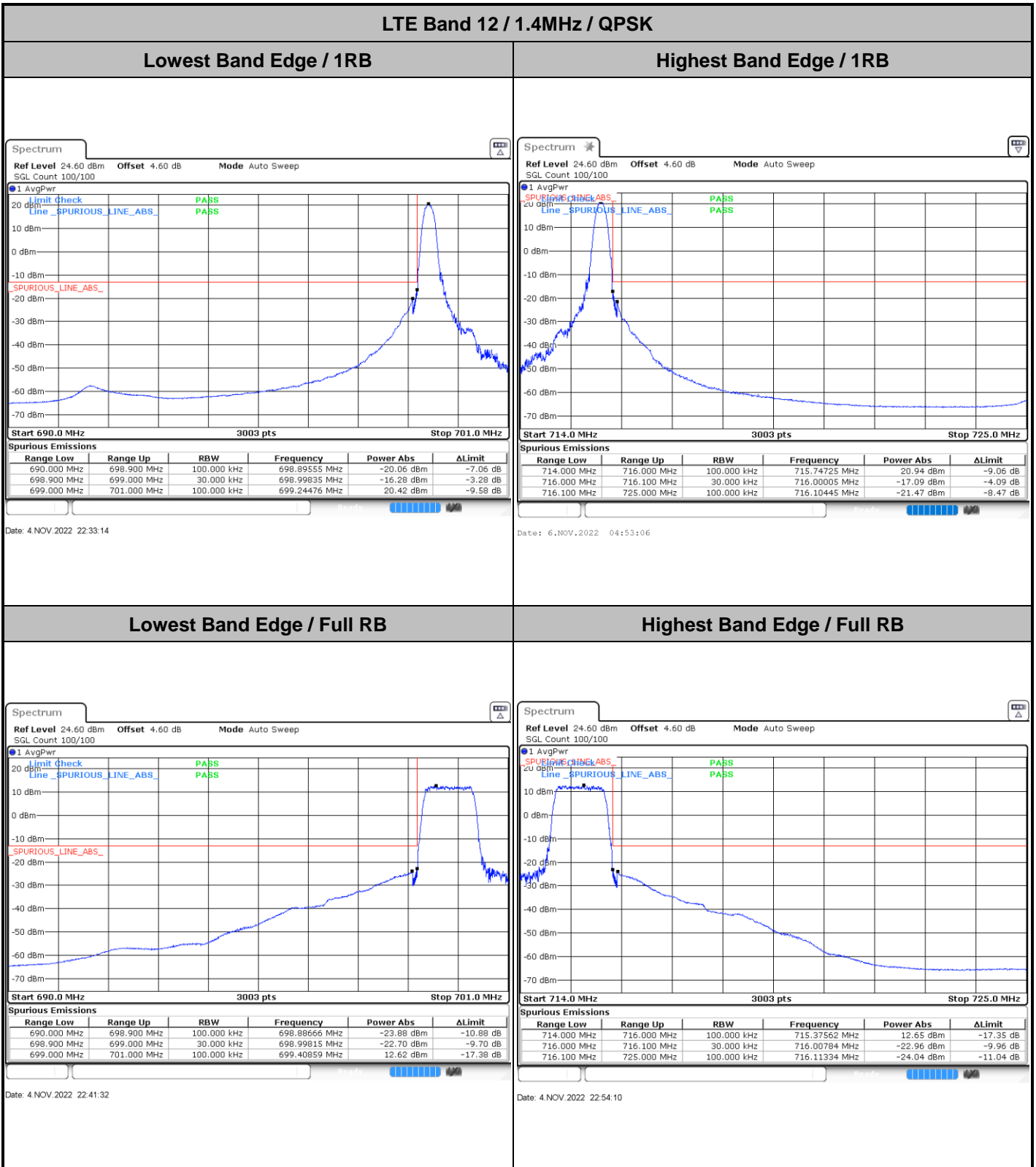
## Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 12 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.03	8.93





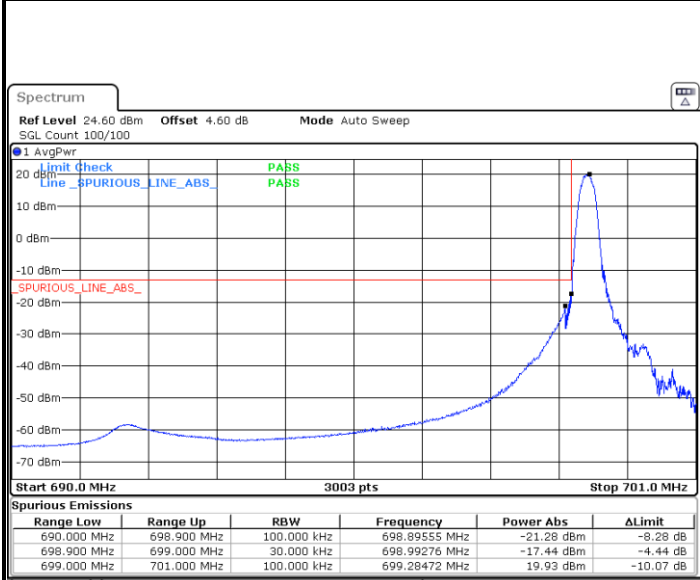
# Conducted Band Edge





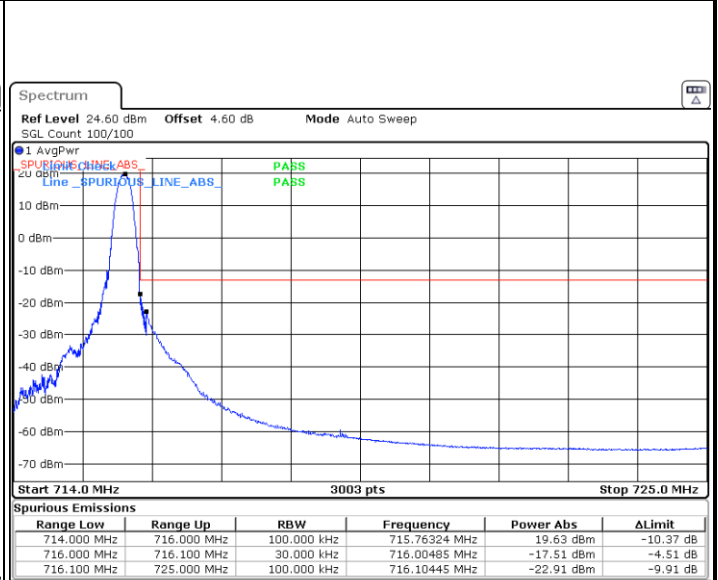
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



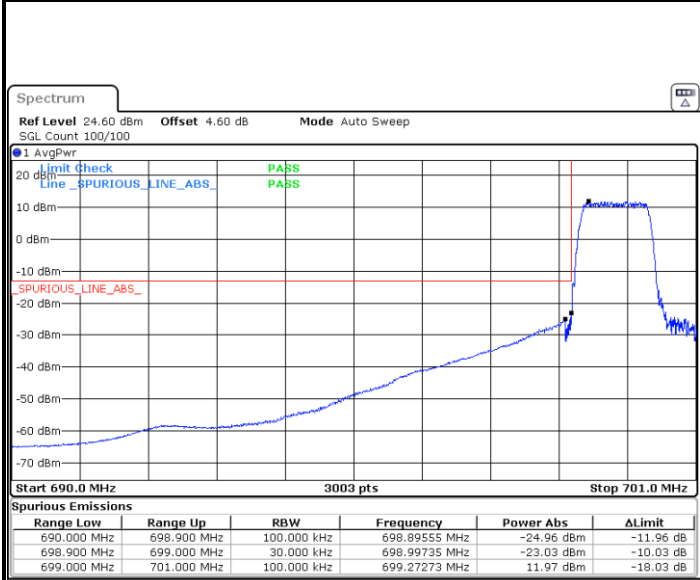
Date: 4 NOV. 2022 22:34:54

Highest Band Edge / 1 RB



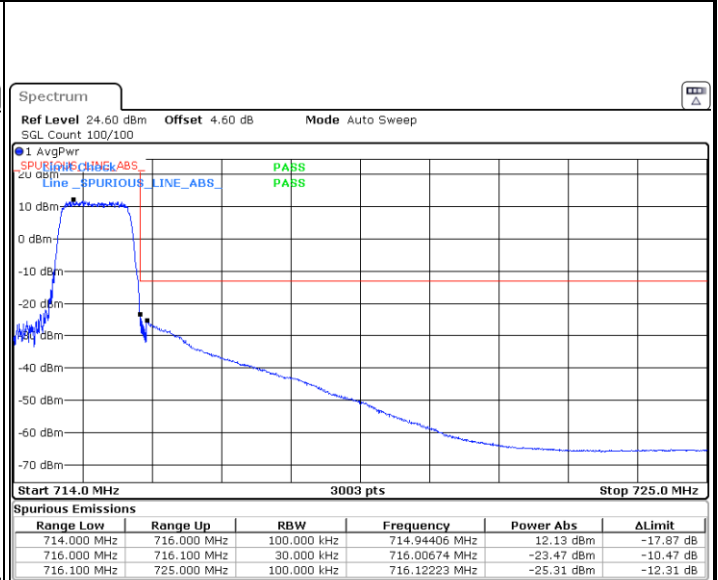
Date: 4 NOV. 2022 22:47:31

Lowest Band Edge / Full RB



Date: 4 NOV. 2022 22:39:52

Highest Band Edge / Full RB

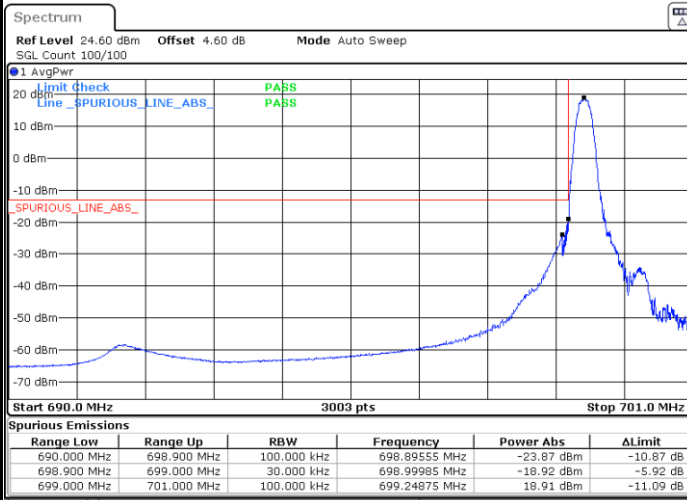


Date: 4 NOV. 2022 22:52:31



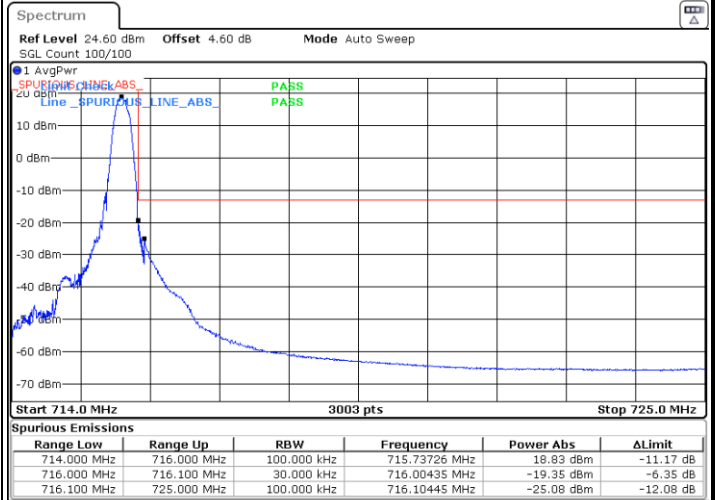
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



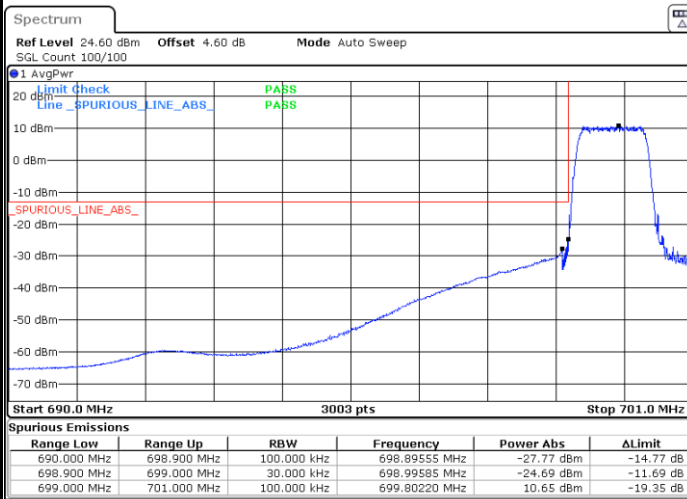
Date: 4 NOV. 2022 22:36:33

Highest Band Edge / 1 RB



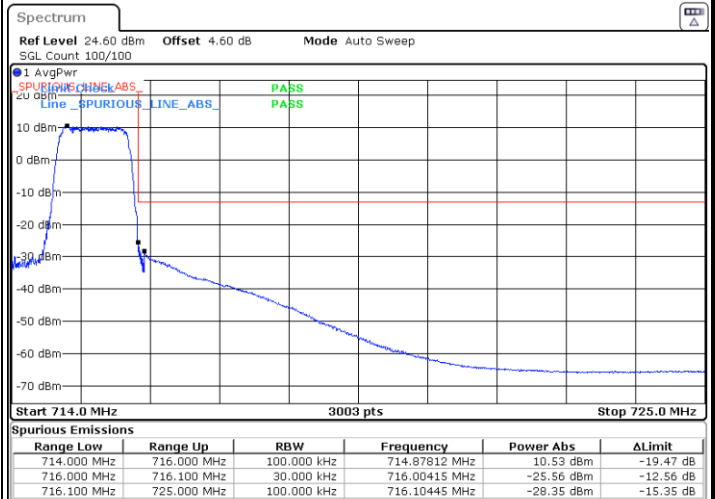
Date: 4 NOV. 2022 22:49:11

Lowest Band Edge / Full RB



Date: 4 NOV. 2022 22:38:13

Highest Band Edge / Full RB

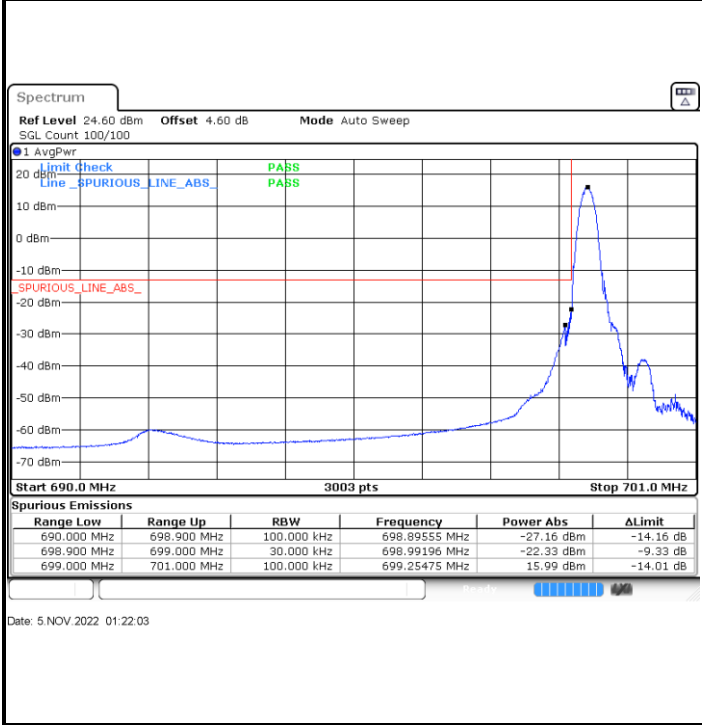


Date: 4 NOV. 2022 22:50:51

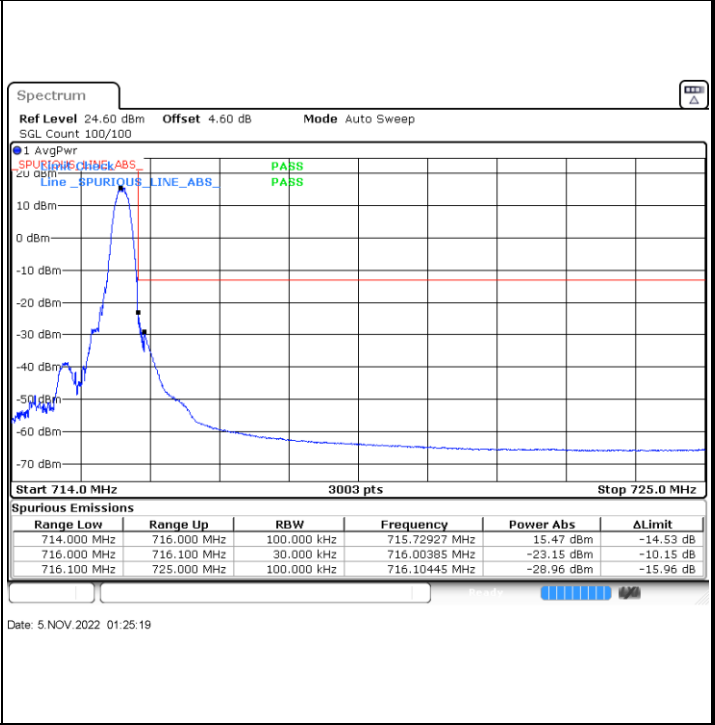


LTE Band 12 / 1.4MHz / 256QAM

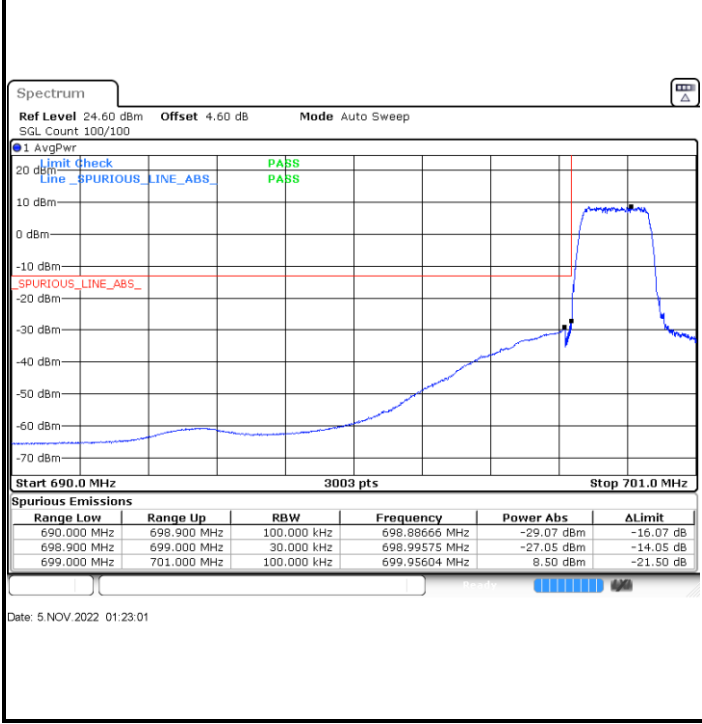
Lowest Band Edge / 1 RB



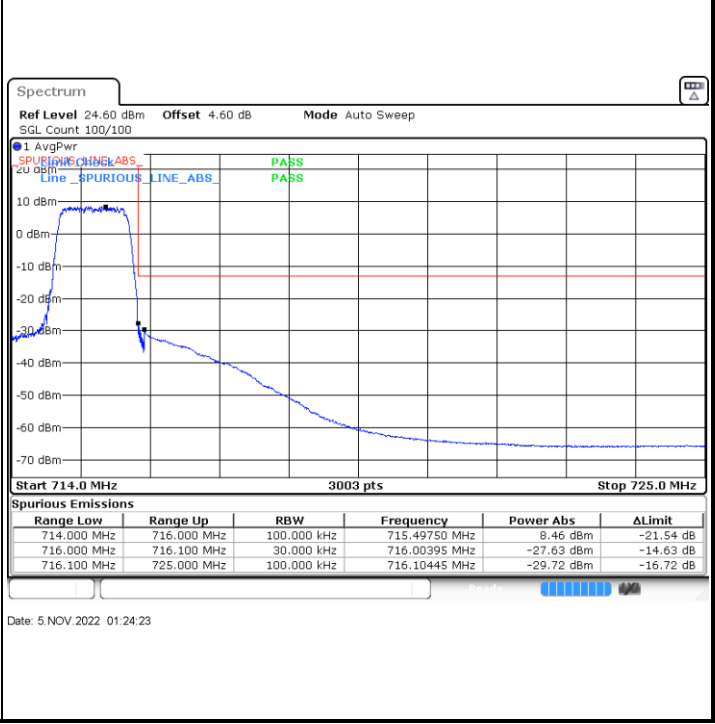
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



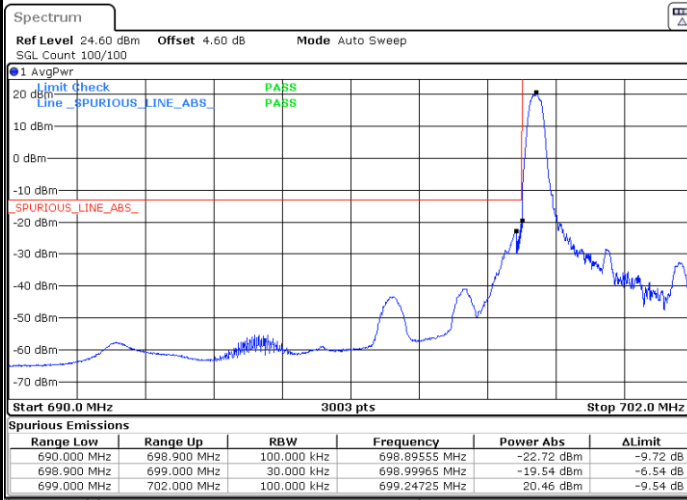
Highest Band Edge / Full RB





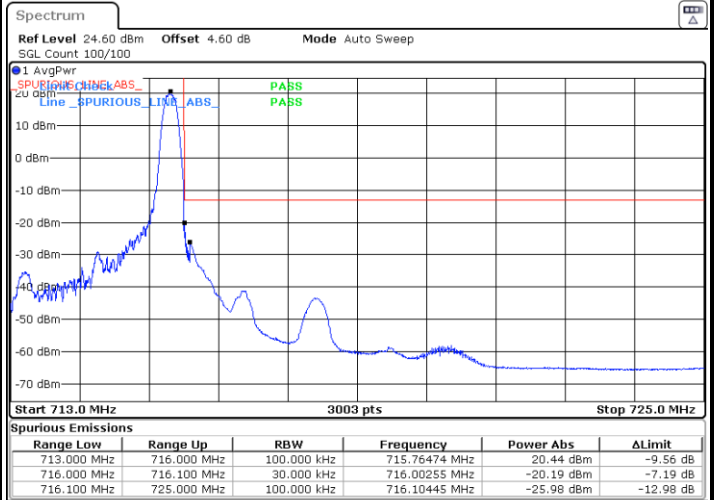
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



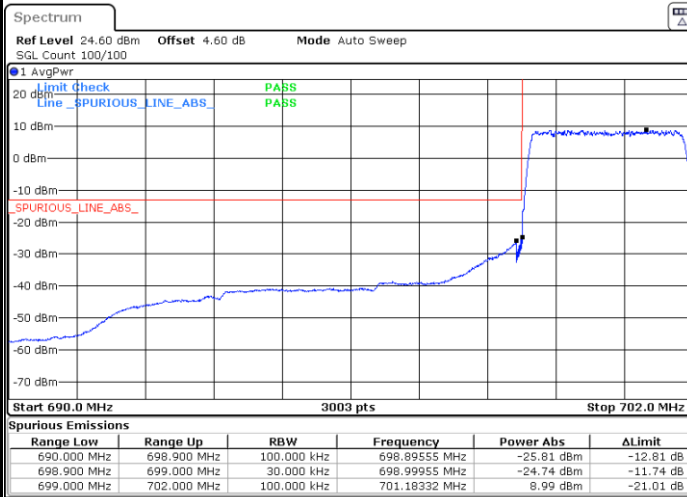
Date: 4 NOV. 2022 22:57:11

Highest Band Edge / 1 RB



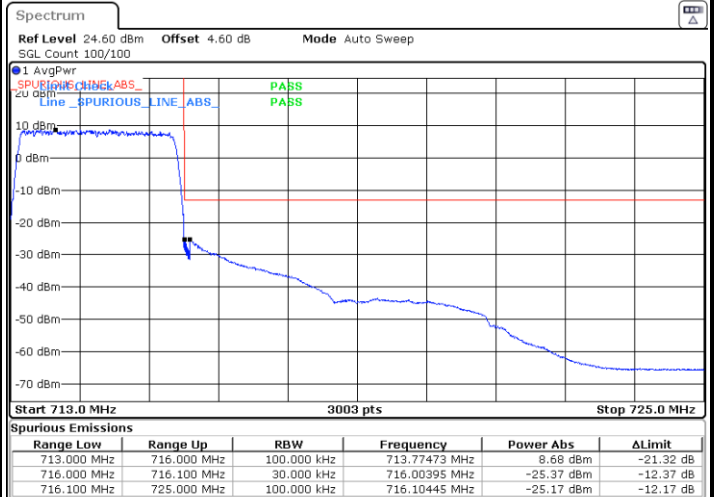
Date: 4 NOV. 2022 23:09:49

Lowest Band Edge / Full RB



Date: 4 NOV. 2022 23:05:29

Highest Band Edge / Full RB

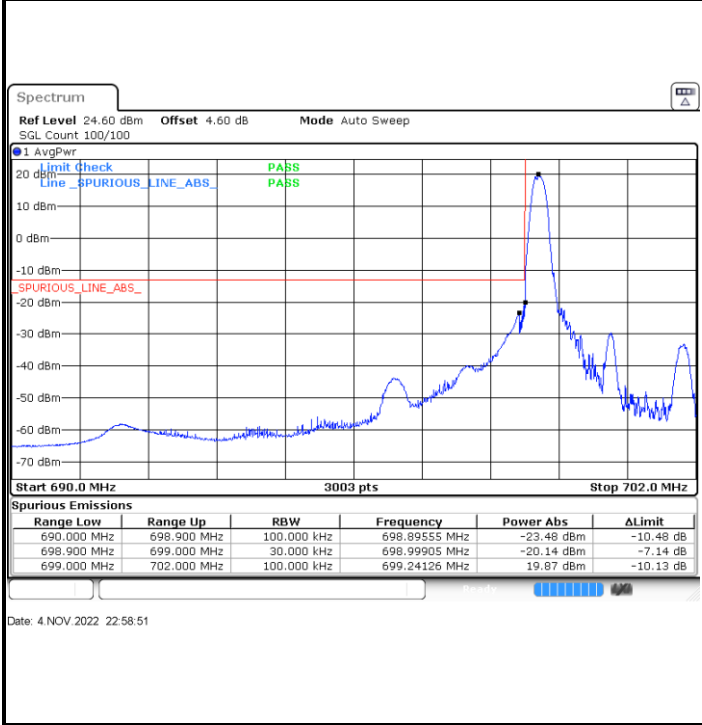


Date: 4 NOV. 2022 23:18:07

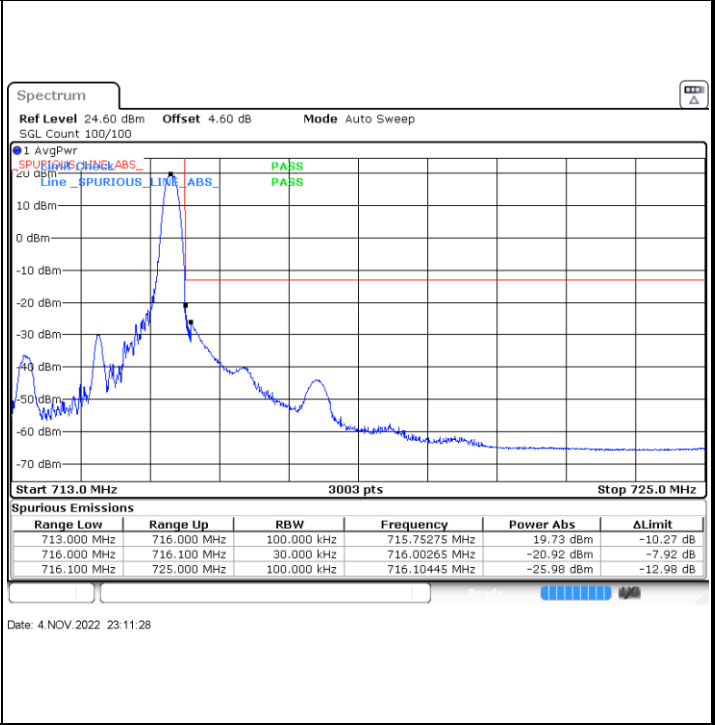


LTE Band 12 / 3MHz / 16QAM

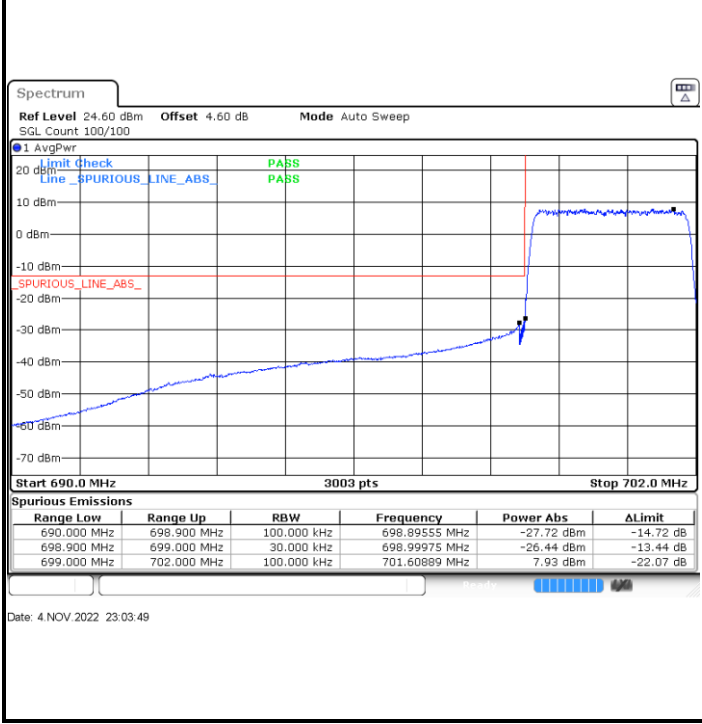
Lowest Band Edge / 1 RB



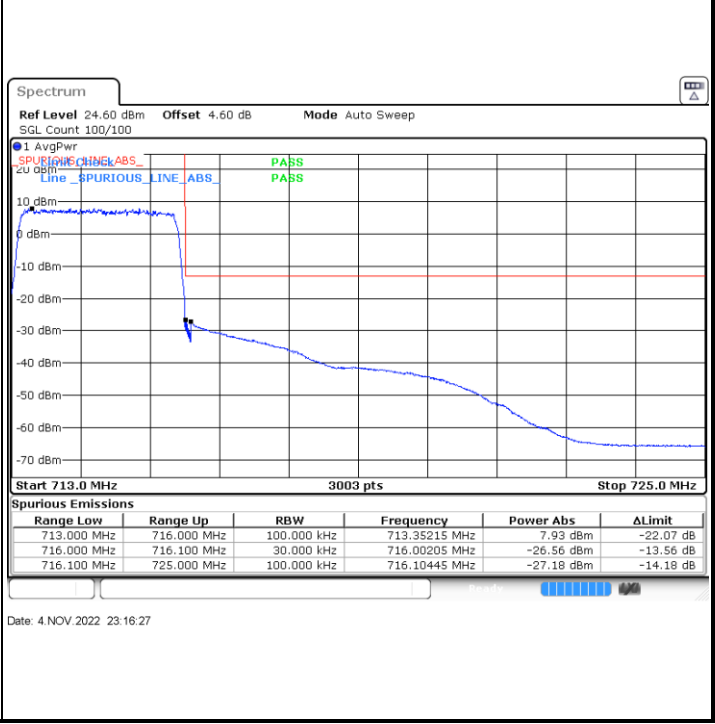
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



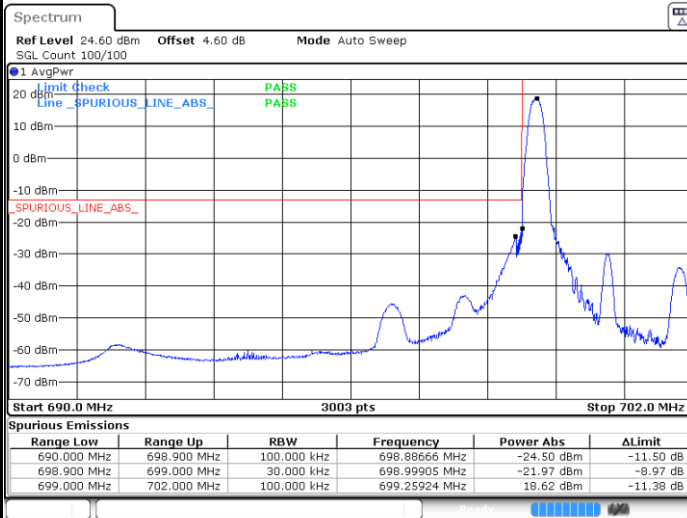
Highest Band Edge / Full RB





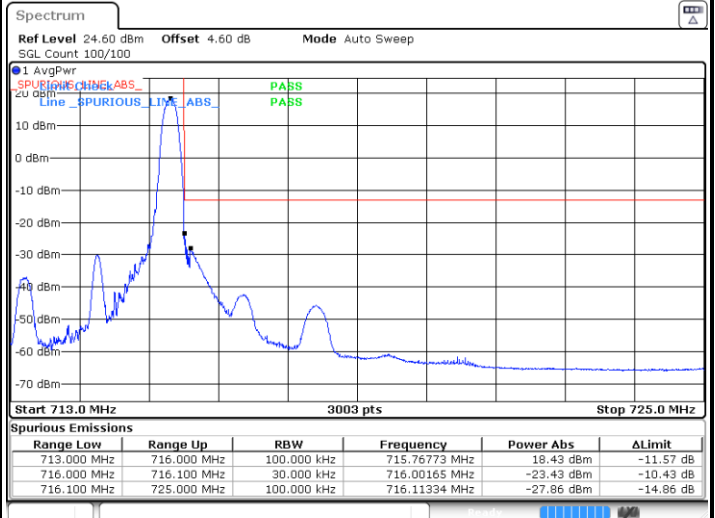
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



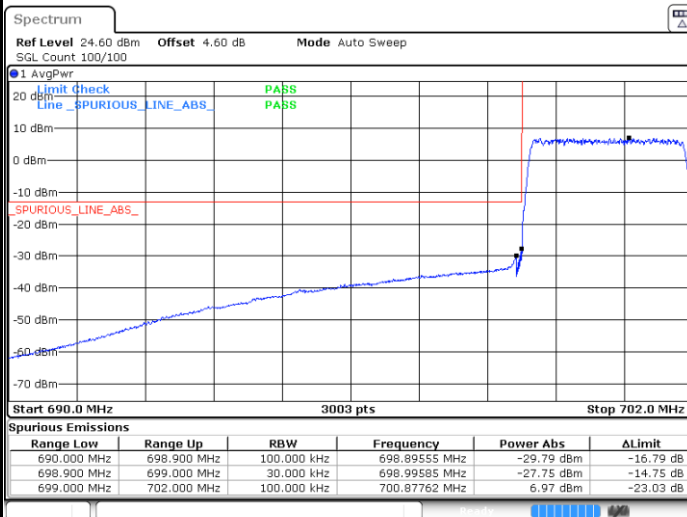
Date: 4 NOV. 2022 23:00:30

Highest Band Edge / 1 RB



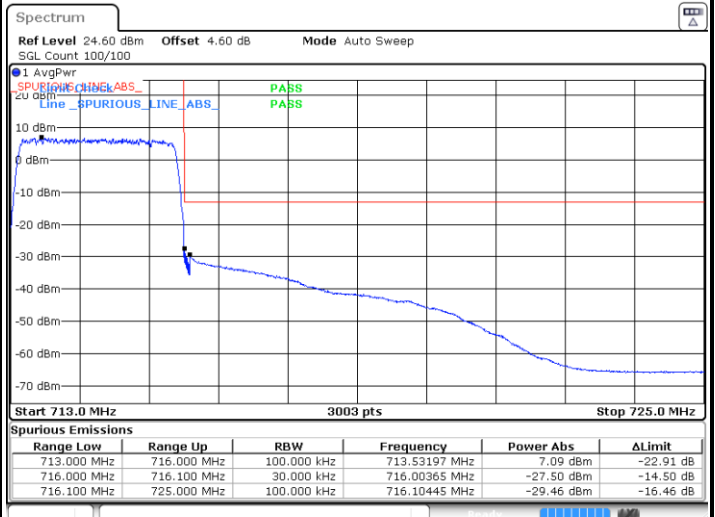
Date: 4 NOV. 2022 23:13:08

Lowest Band Edge / Full RB



Date: 4 NOV. 2022 23:02:10

Highest Band Edge / Full RB

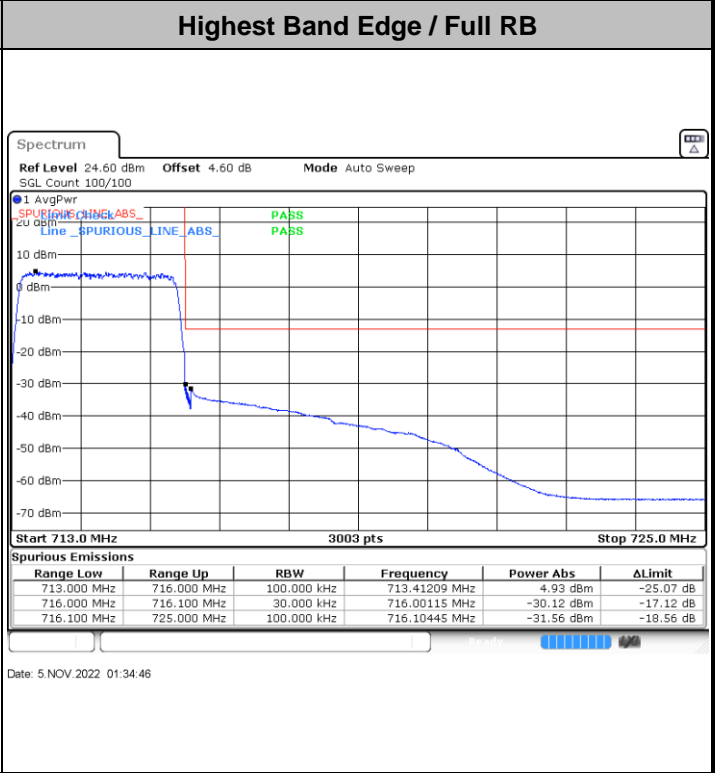
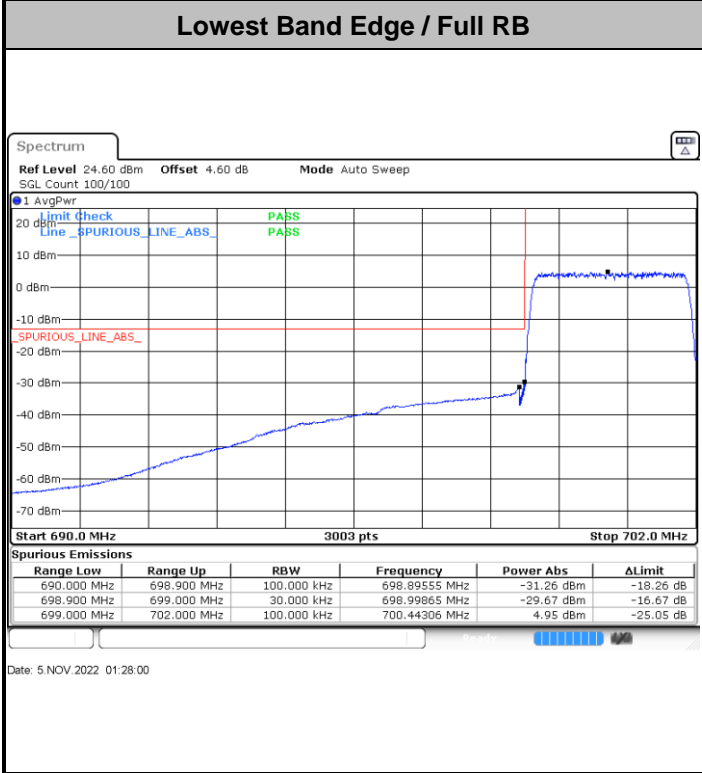
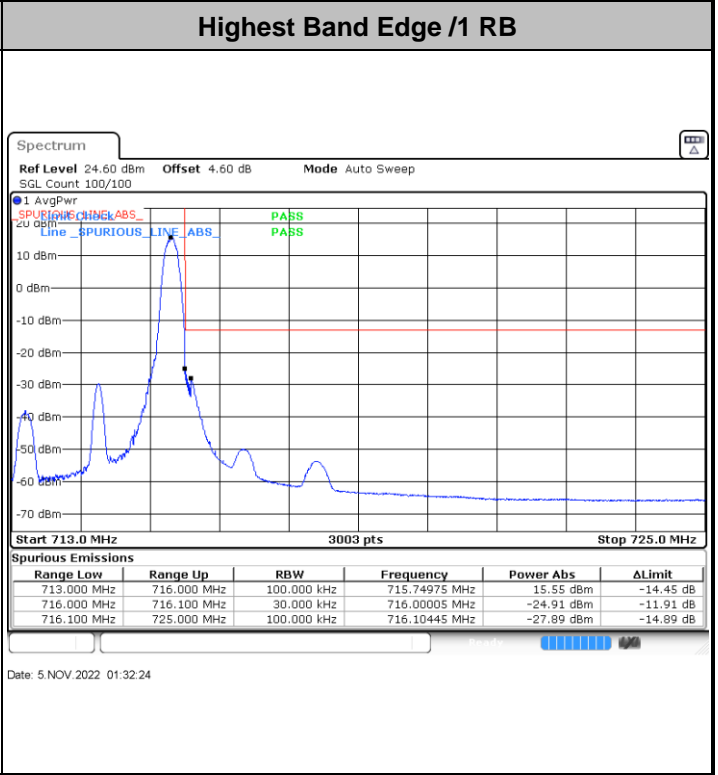
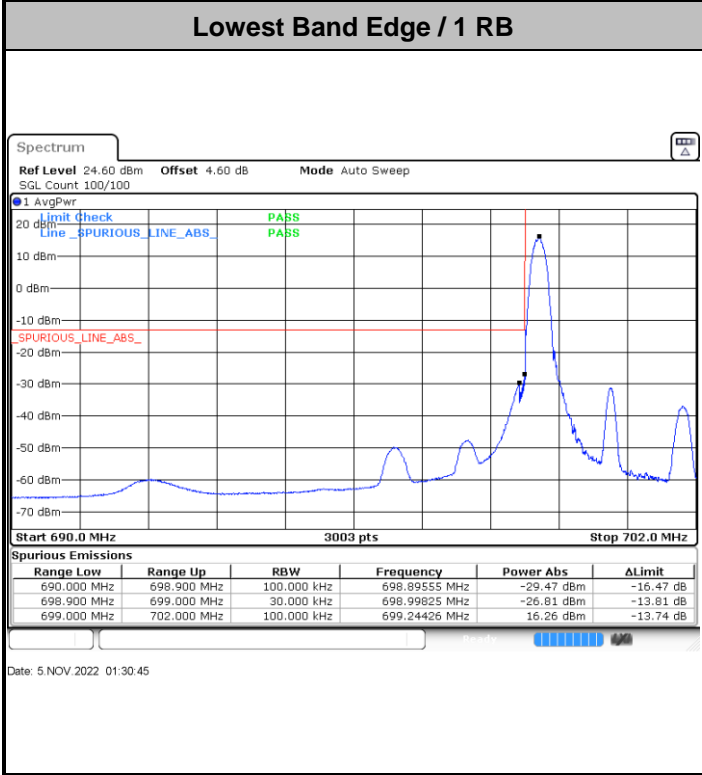


Date: 4 NOV. 2022 23:14:48





LTE Band 12 / 3MHz / 256QAM

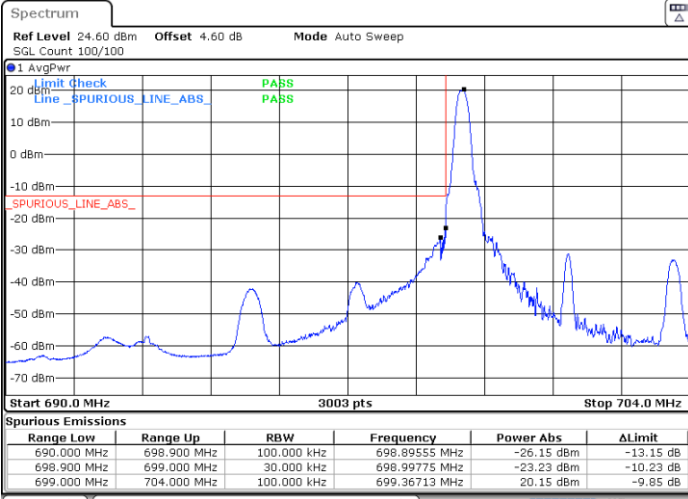




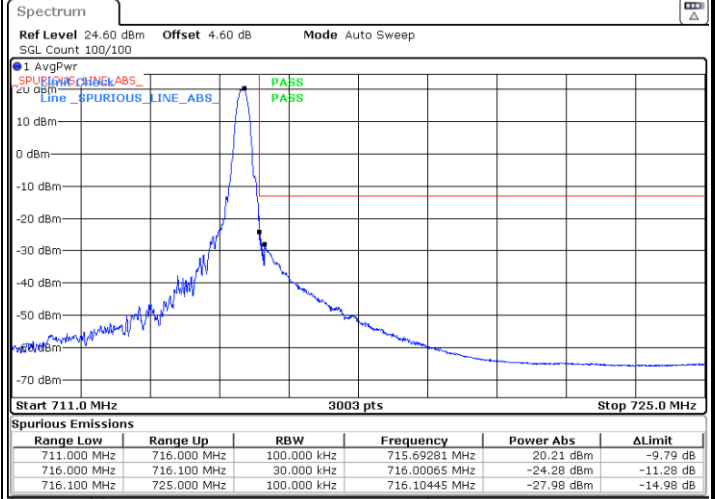
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



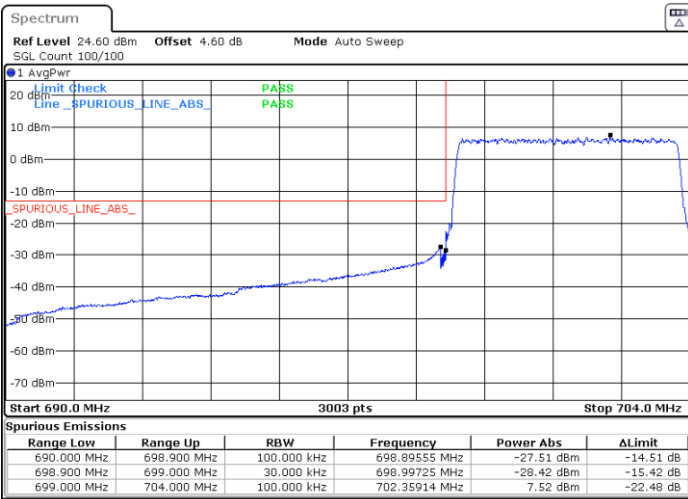
Date: 4 NOV. 2022 23:21:07



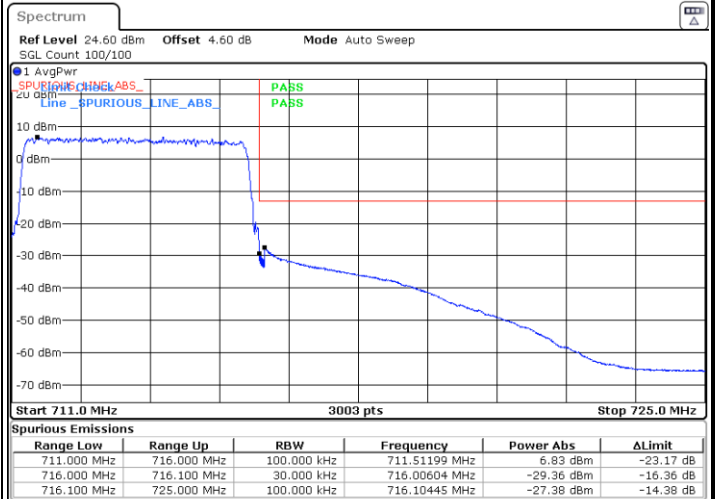
Date: 4 NOV. 2022 23:33:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 NOV. 2022 23:29:27

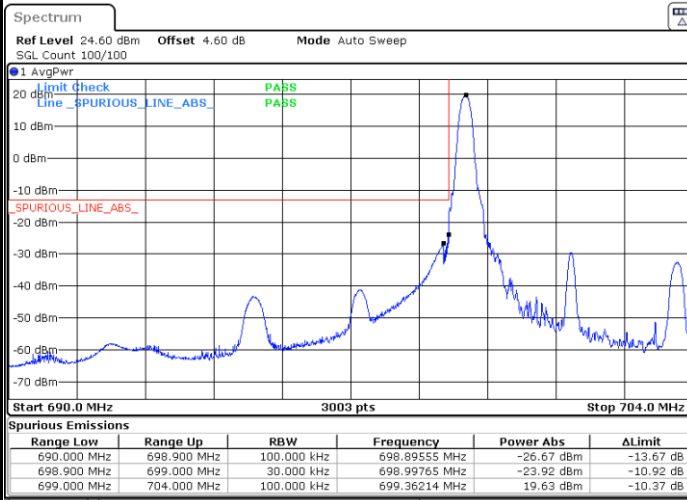


Date: 4 NOV. 2022 23:42:04



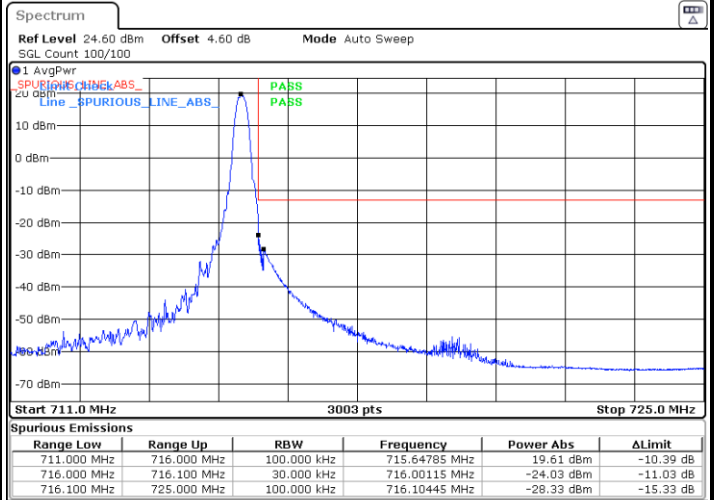
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



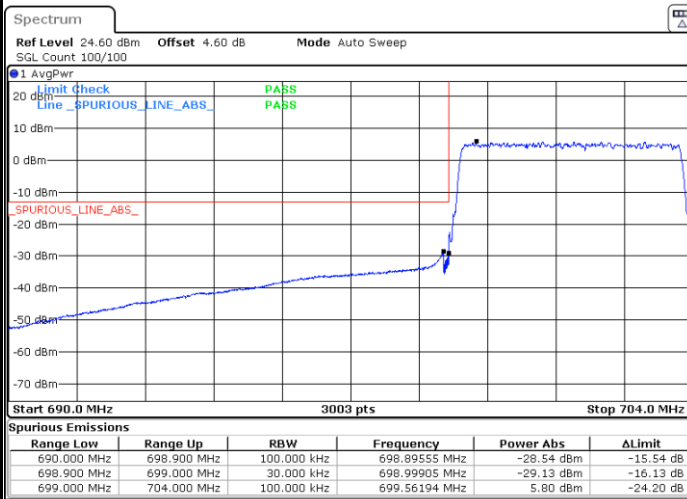
Date: 4 NOV.2022 23:22:46

Highest Band Edge / 1 RB



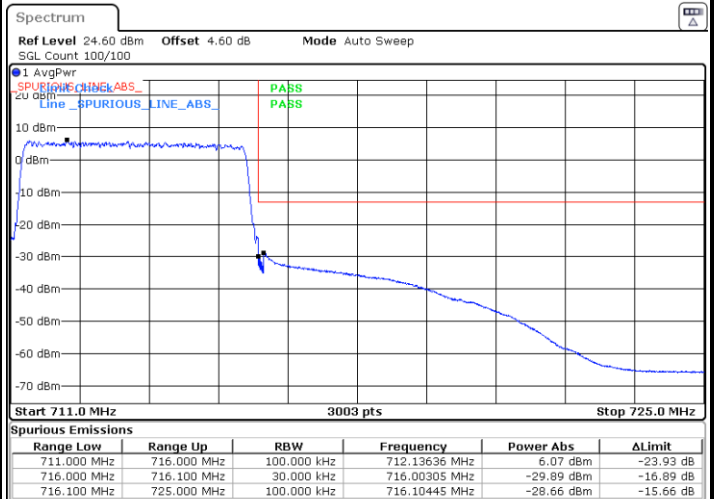
Date: 4 NOV.2022 23:35:26

Lowest Band Edge / Full RB



Date: 4 NOV.2022 23:27:46

Highest Band Edge / Full RB

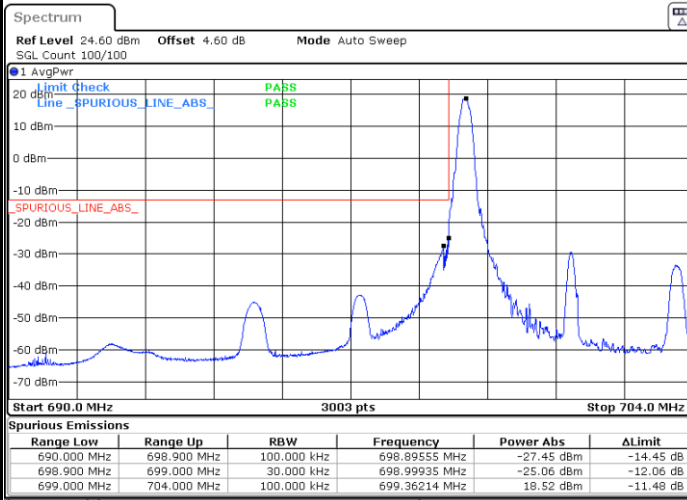


Date: 4 NOV.2022 23:40:25



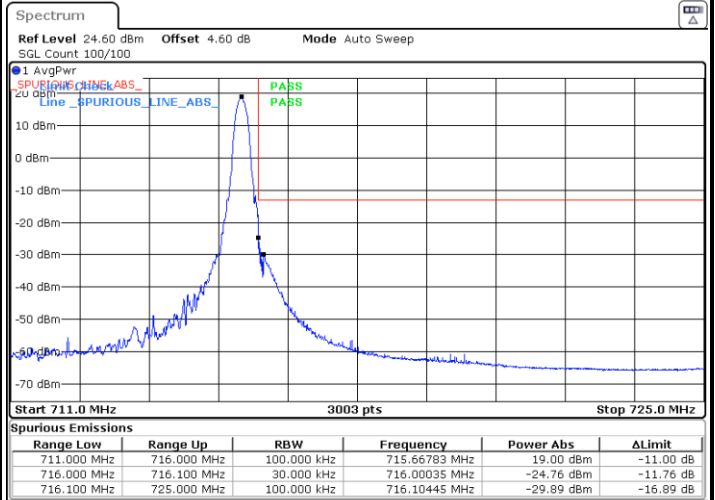
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



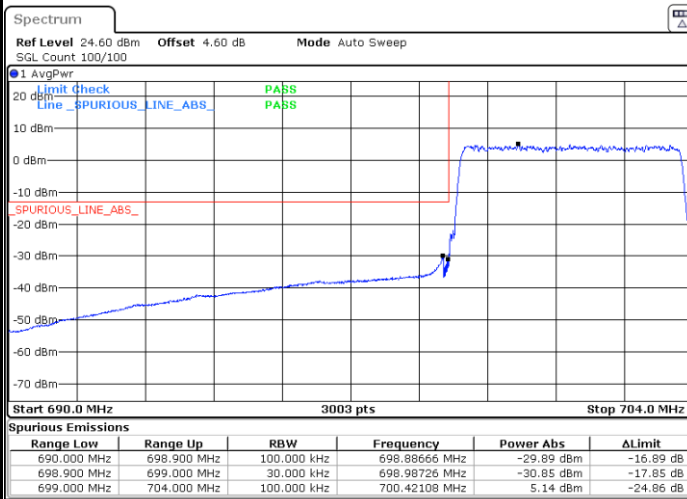
Date: 4 NOV. 2022 23:24:26

Highest Band Edge / 1 RB



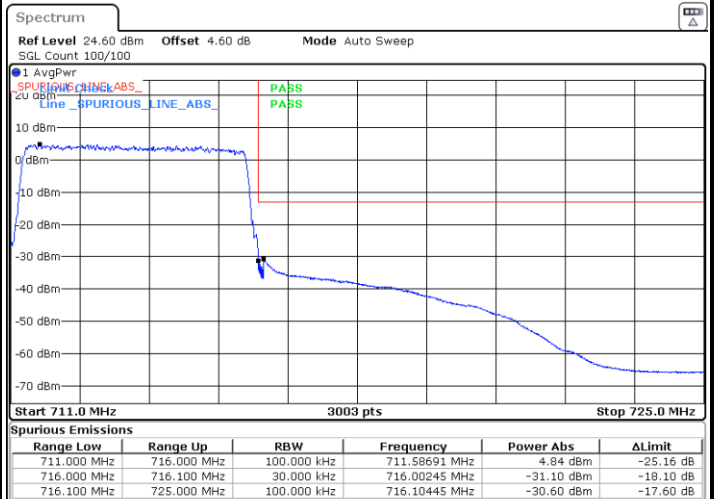
Date: 4 NOV. 2022 23:37:05

Lowest Band Edge / Full RB



Date: 4 NOV. 2022 23:26:06

Highest Band Edge / Full RB

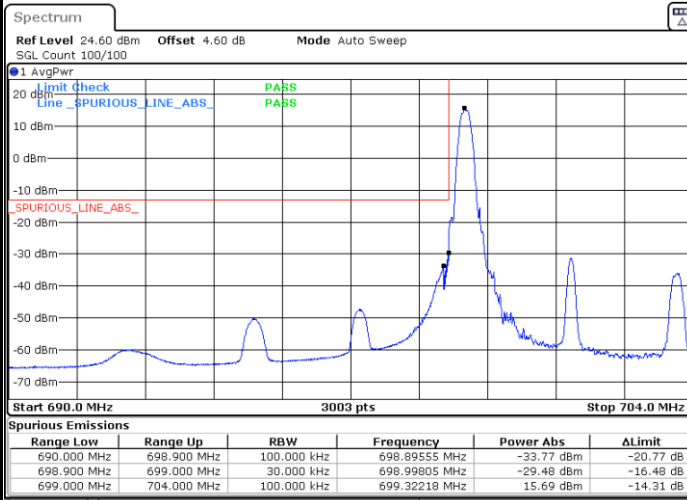


Date: 4 NOV. 2022 23:38:45



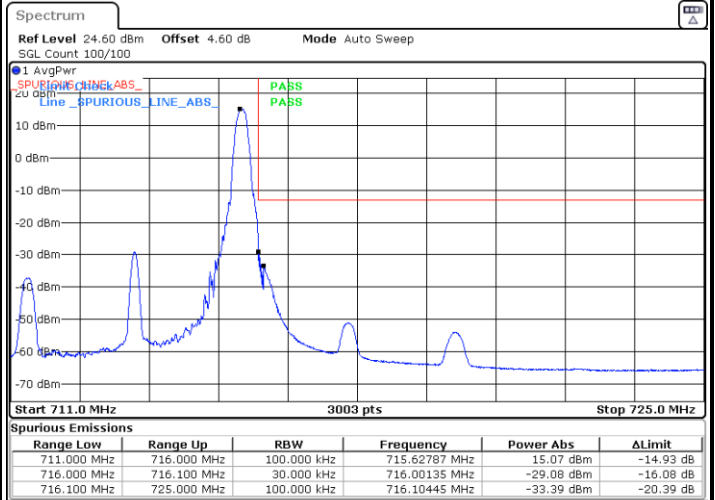
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



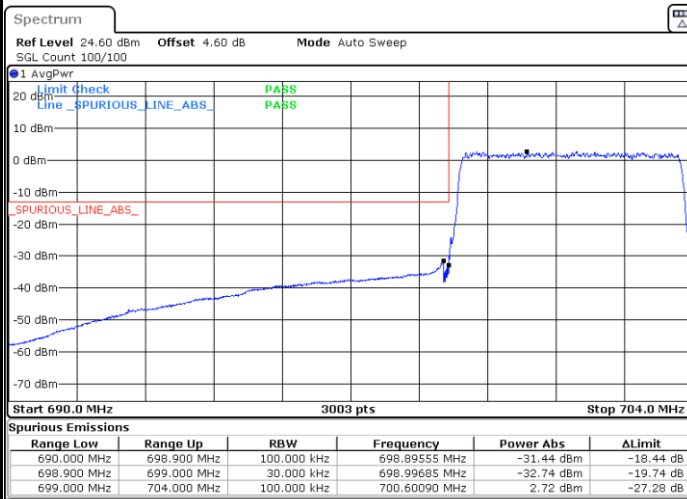
Date: 5 NOV. 2022 01:40:35

Highest Band Edge / 1 RB



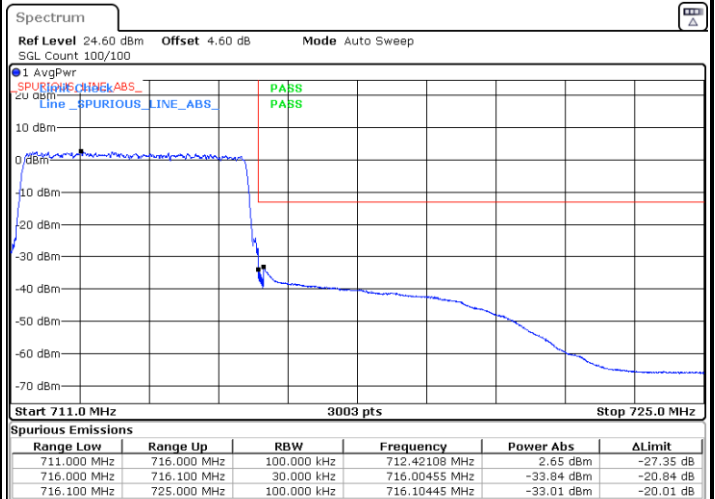
Date: 5 NOV. 2022 01:43:29

Lowest Band Edge / Full RB



Date: 5 NOV. 2022 01:39:34

Highest Band Edge / Full RB



Date: 5 NOV. 2022 01:41:44