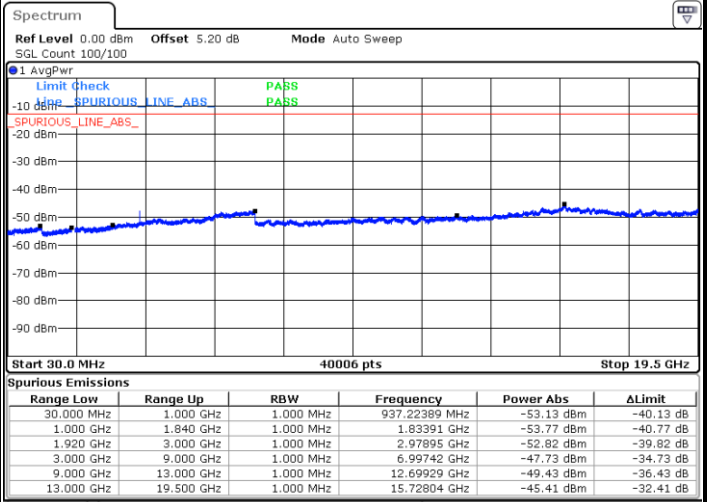
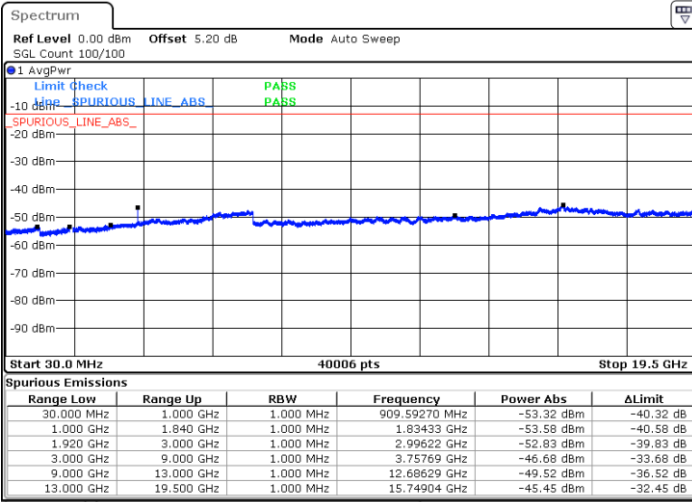




LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

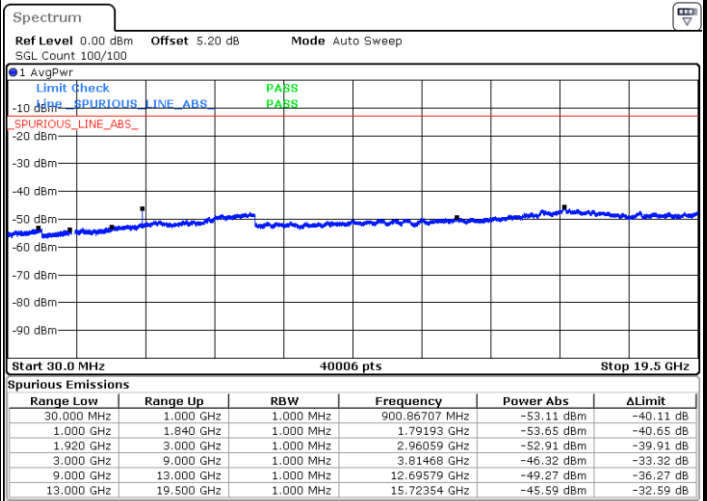
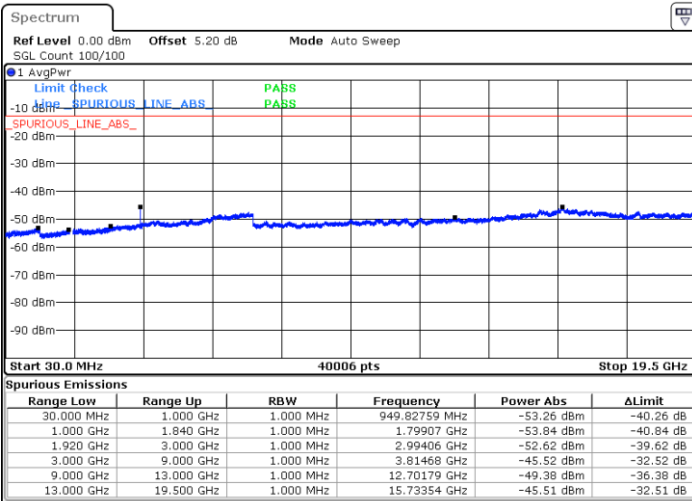


Date: 15. DEC. 2020 20:00:27

Date: 15. DEC. 2020 20:01:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15. DEC. 2020 20:06:49

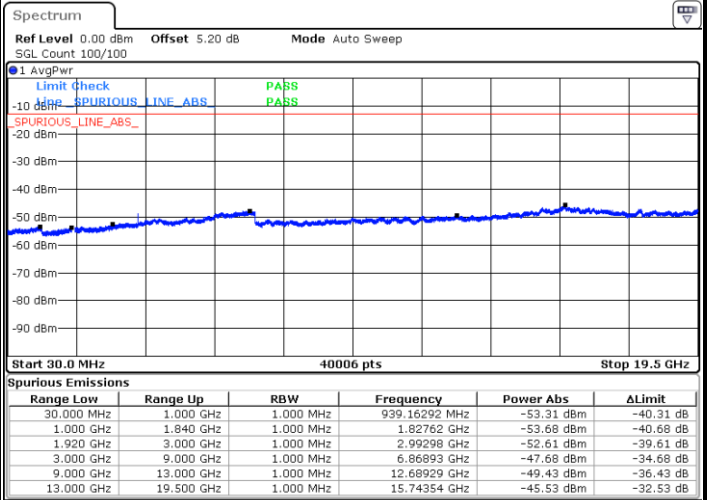
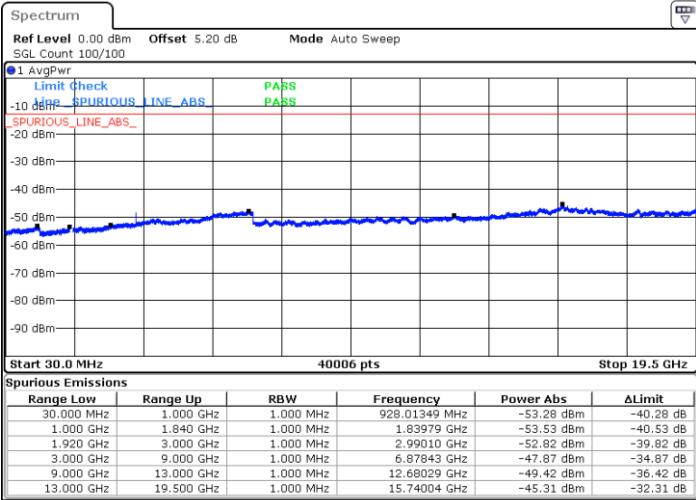
Date: 15. DEC. 2020 20:07:45



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

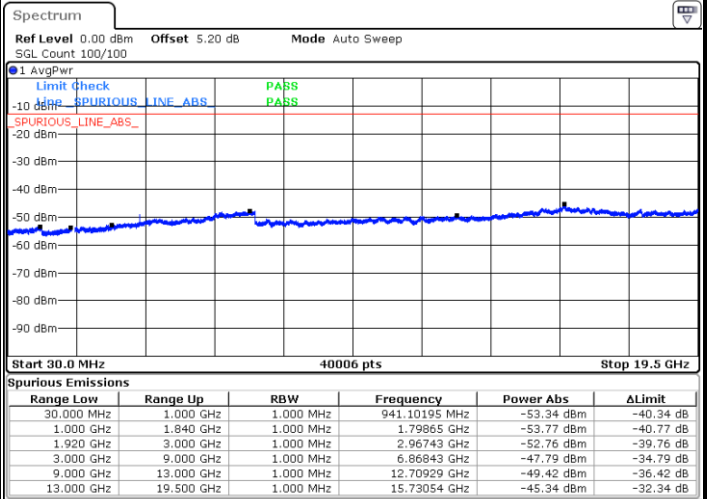
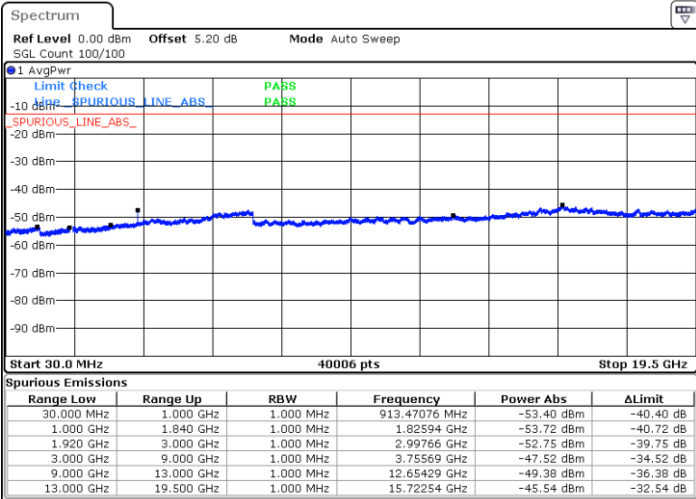


Date: 15.DEC.2020 20:13:11

Date: 15.DEC.2020 20:14:07

Middle Channel / QPSK

Middle Channel / 16QAM



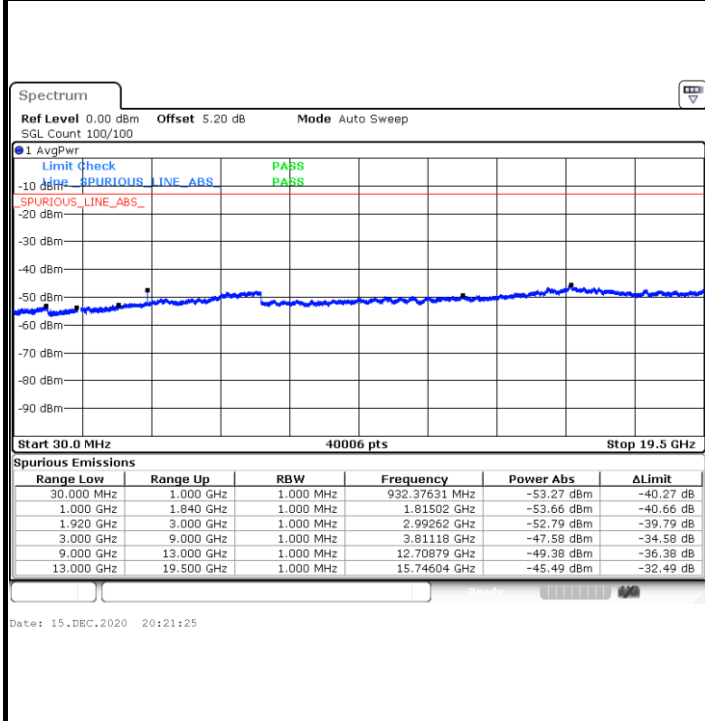
Date: 15.DEC.2020 20:15:02

Date: 15.DEC.2020 20:15:58

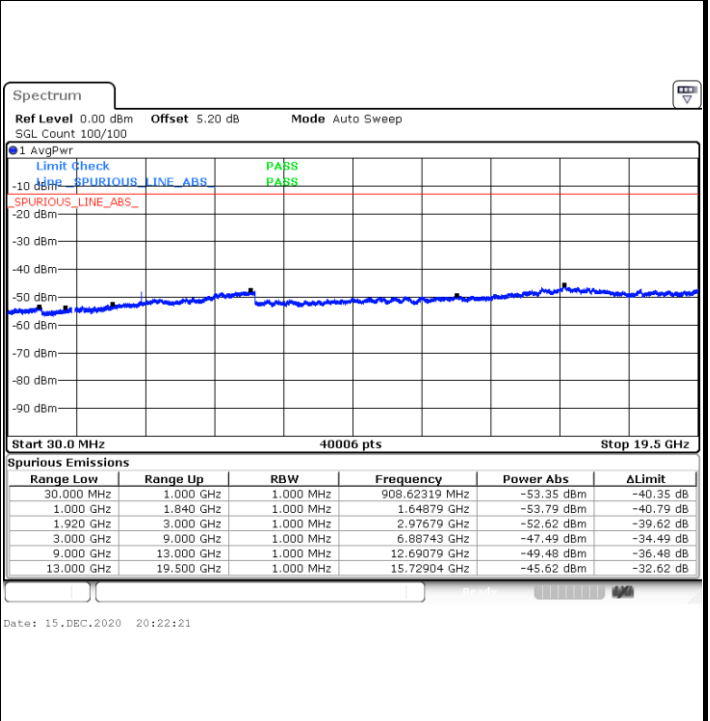


LTE Band 2 / 5MHz

Highest Channel / QPSK

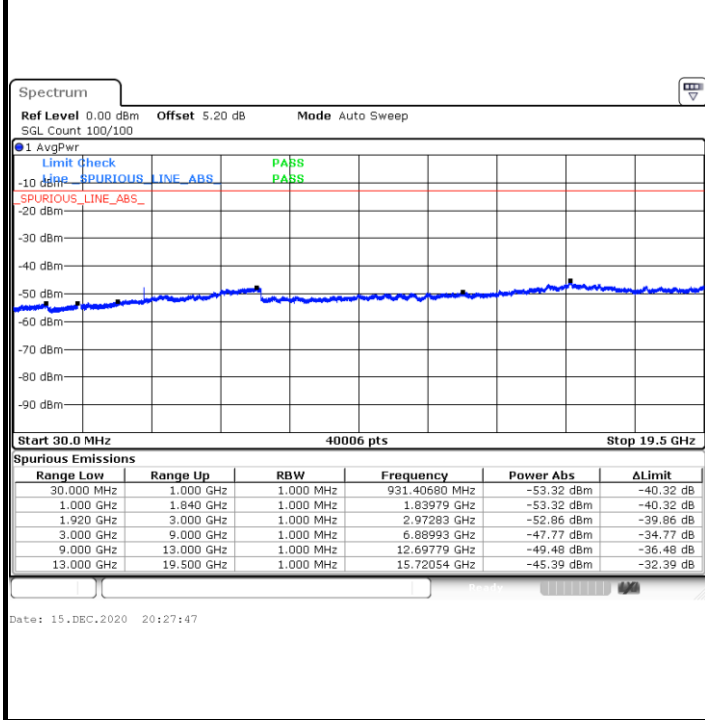


Highest Channel / 16QAM

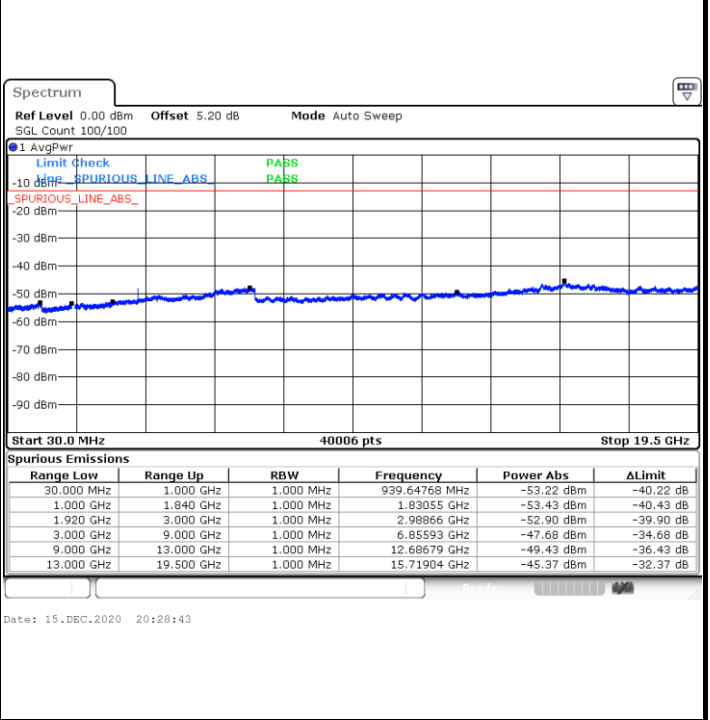


LTE Band 2 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

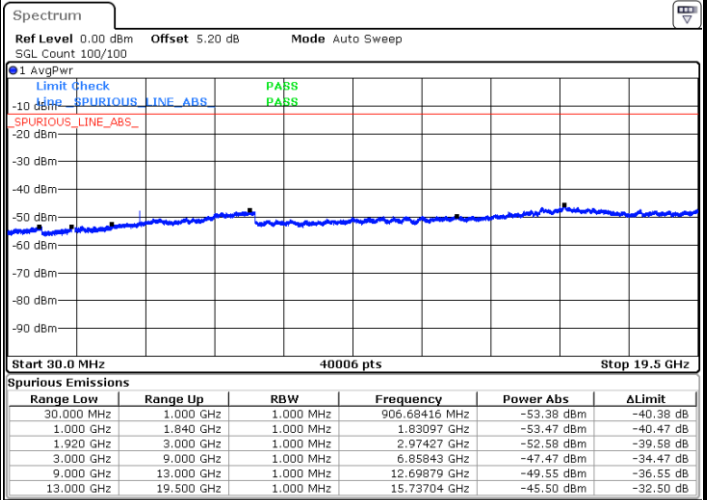
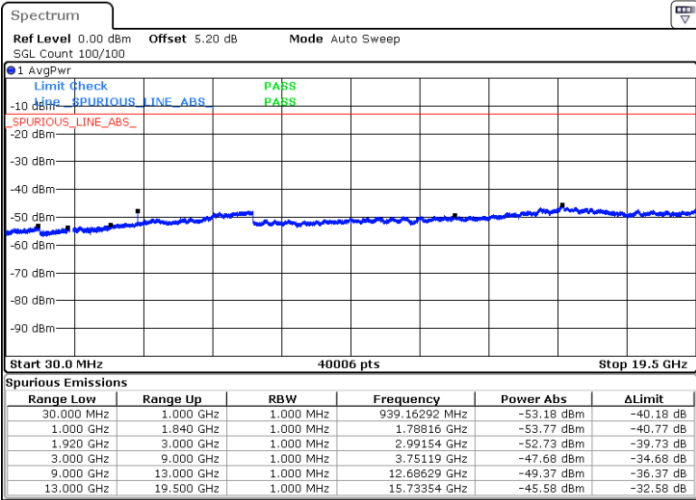




LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

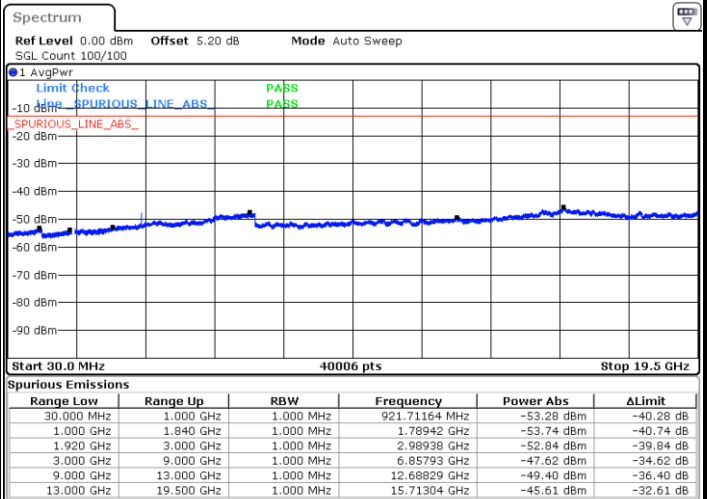
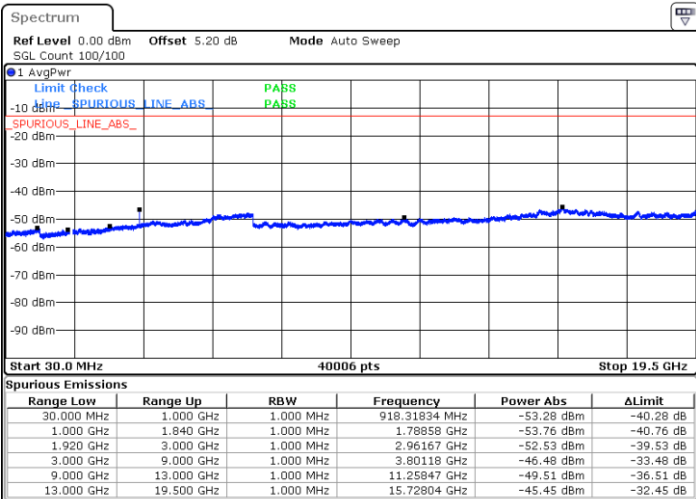


Date: 15. DEC. 2020 20:29:38

Date: 15. DEC. 2020 20:30:34

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15. DEC. 2020 20:36:00

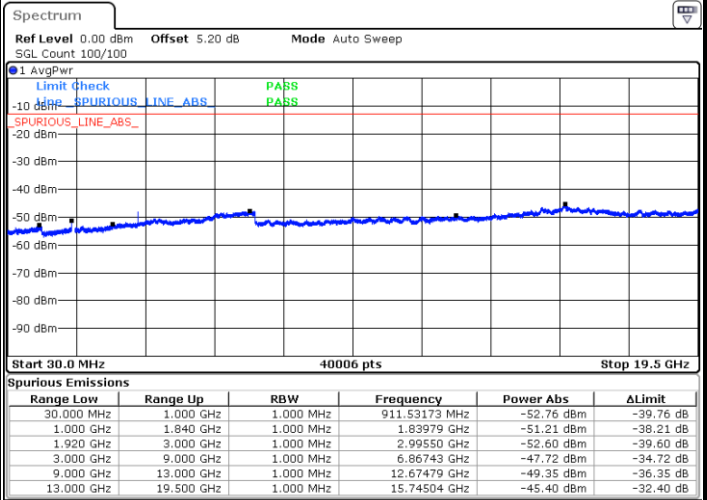
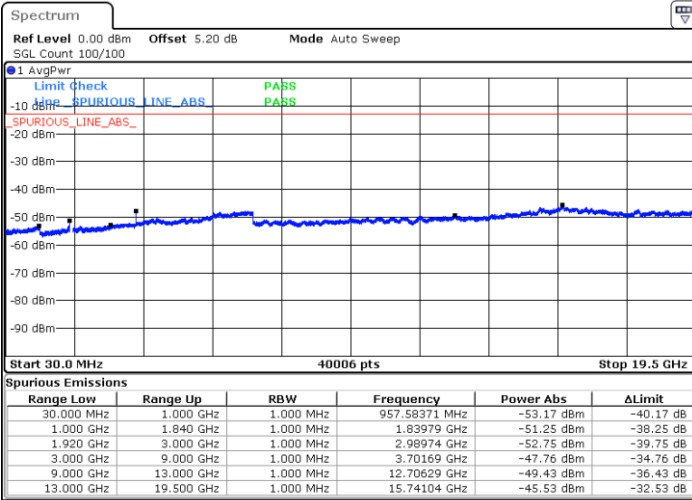
Date: 15. DEC. 2020 20:36:56



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

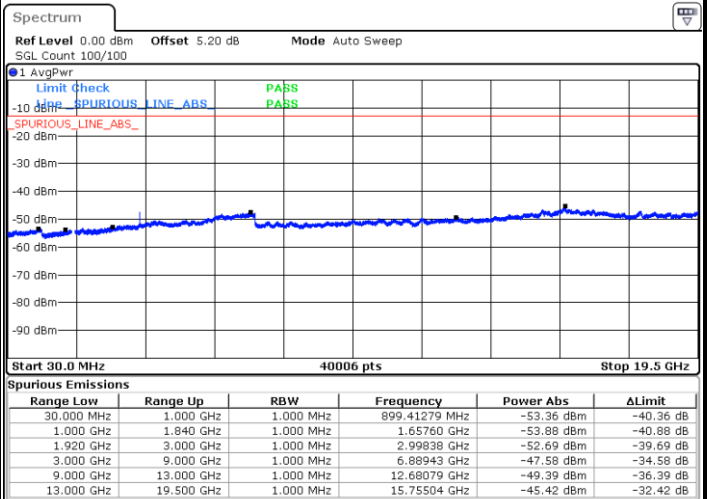
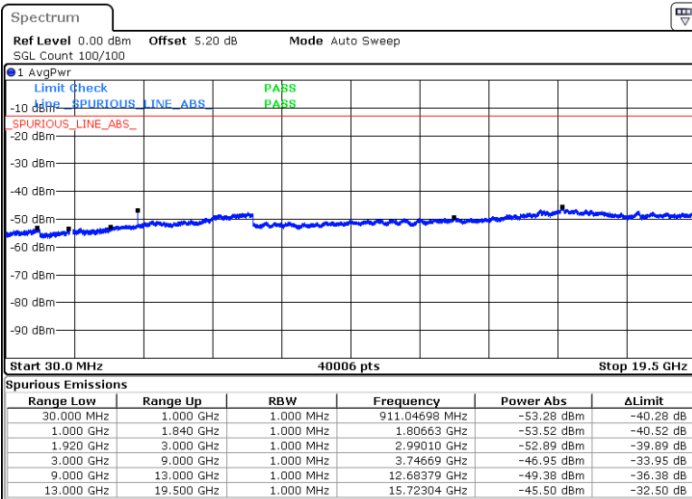


Date: 15. DEC. 2020 20:42:23

Date: 15. DEC. 2020 20:43:19

Middle Channel / QPSK

Middle Channel / 16QAM



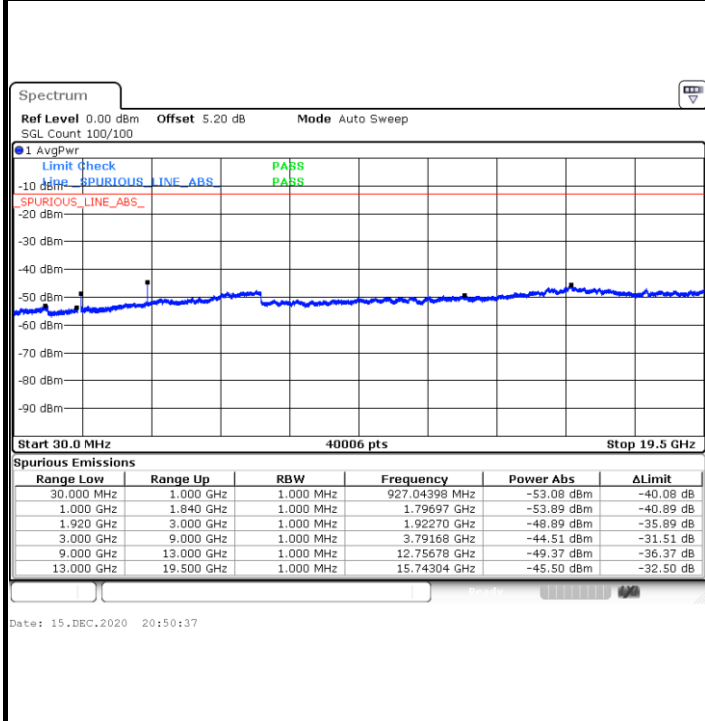
Date: 15. DEC. 2020 20:44:14

Date: 15. DEC. 2020 20:45:10

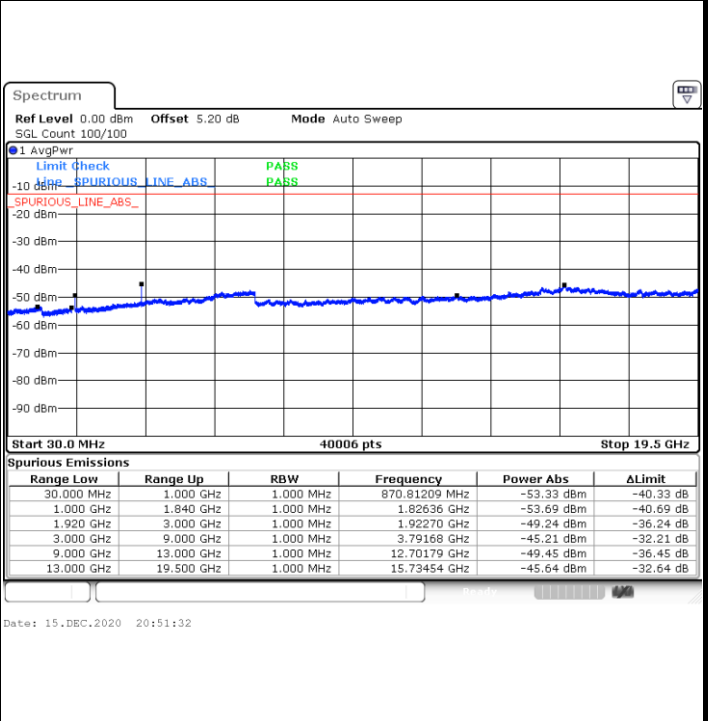


LTE Band 2 / 15MHz

Highest Channel / QPSK

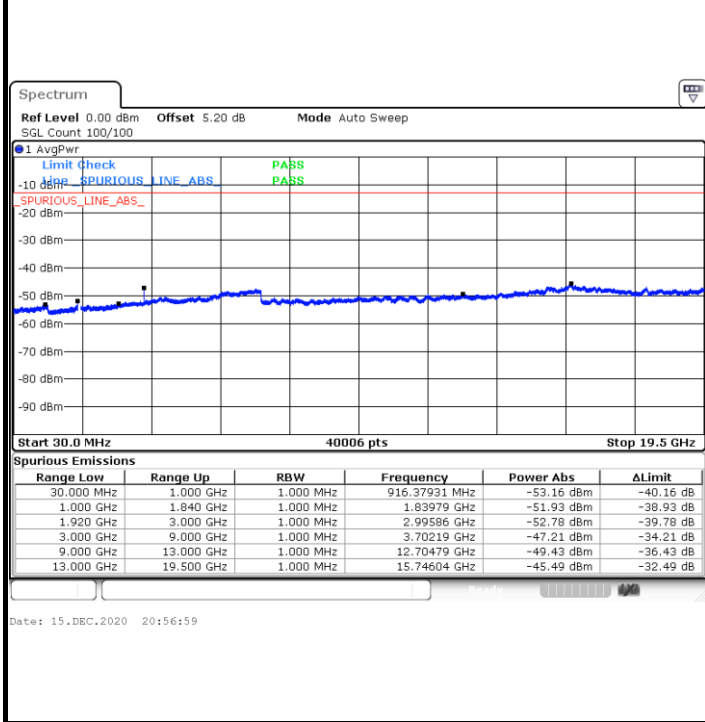


Highest Channel / 16QAM

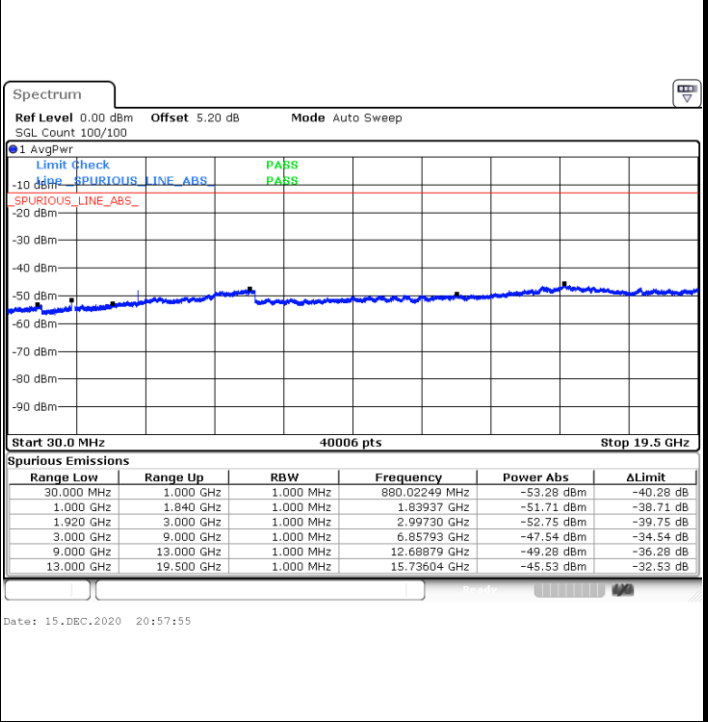


LTE Band 2 / 20MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

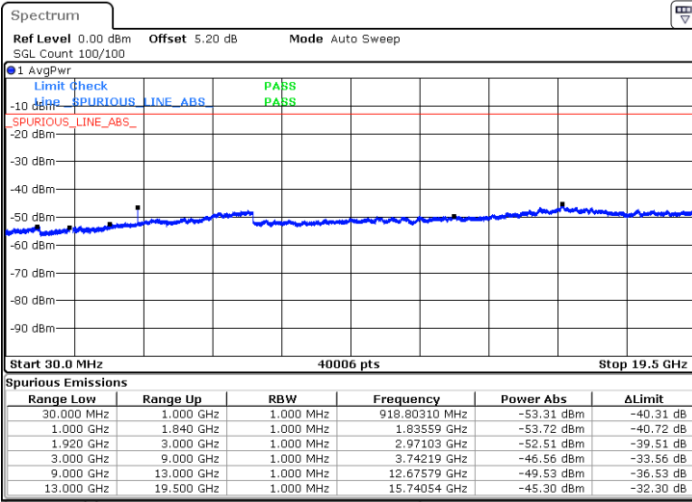




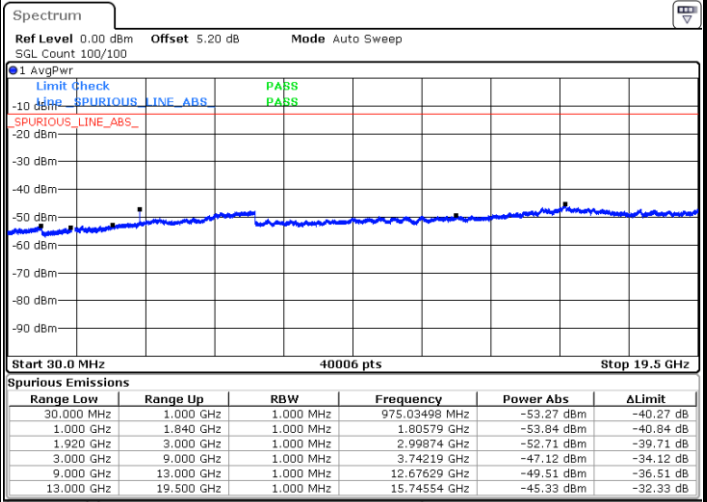
LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



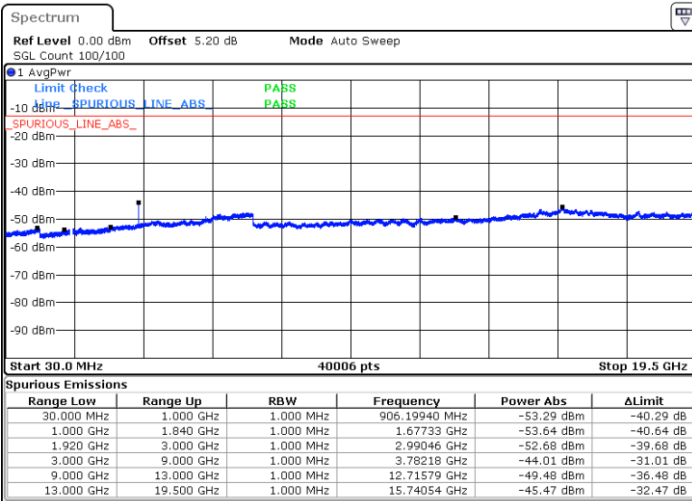
Date: 15. DEC. 2020 20:59:31



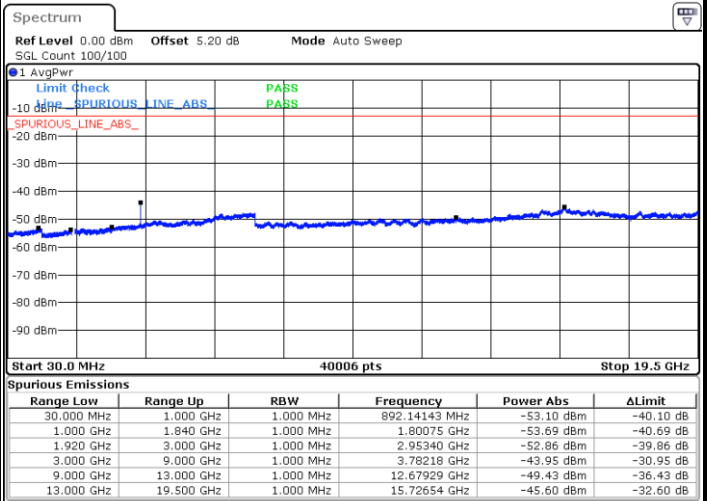
Date: 15. DEC. 2020 21:00:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15. DEC. 2020 21:05:53

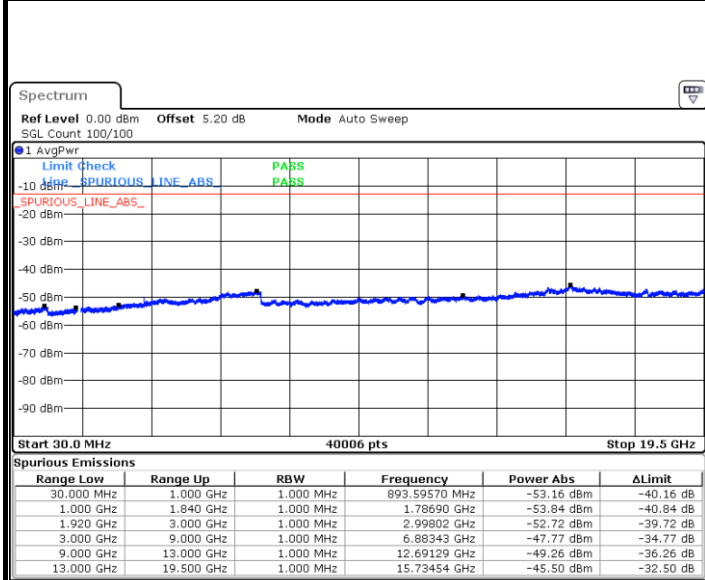


Date: 15. DEC. 2020 21:06:49



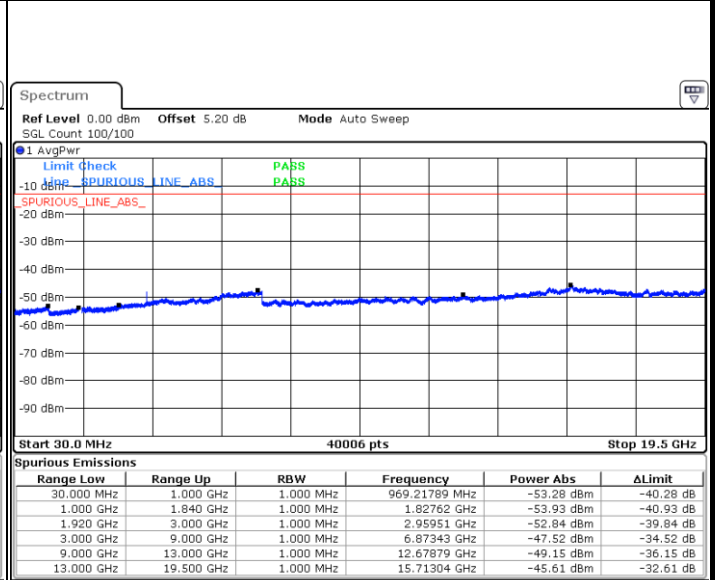
**LTE Band 2 / 1.4MHz**

**Lowest Channel / 64QAM**



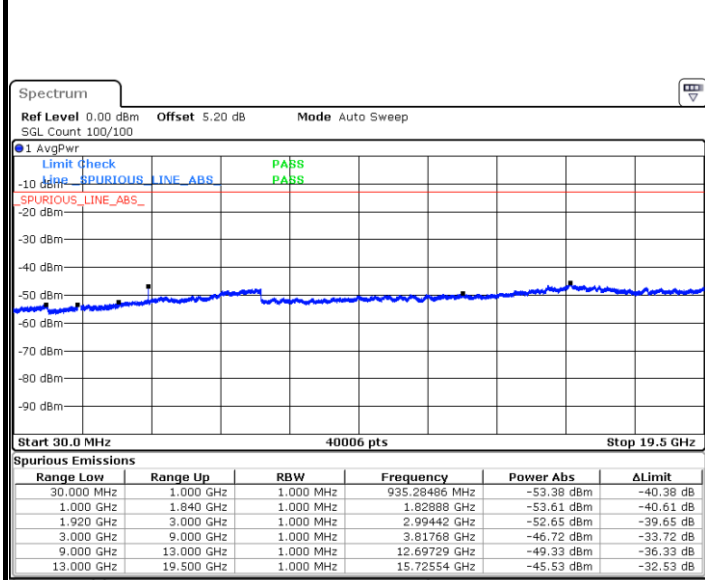
Date: 15. DEC. 2020 22:30:14

**Middle Channel / 64QAM**



Date: 15. DEC. 2020 22:31:32

**Highest Channel / 64QAM**



Date: 15. DEC. 2020 22:32:20

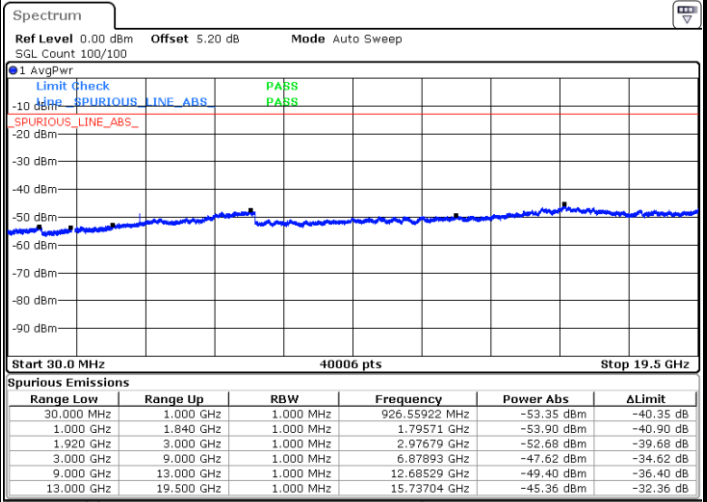
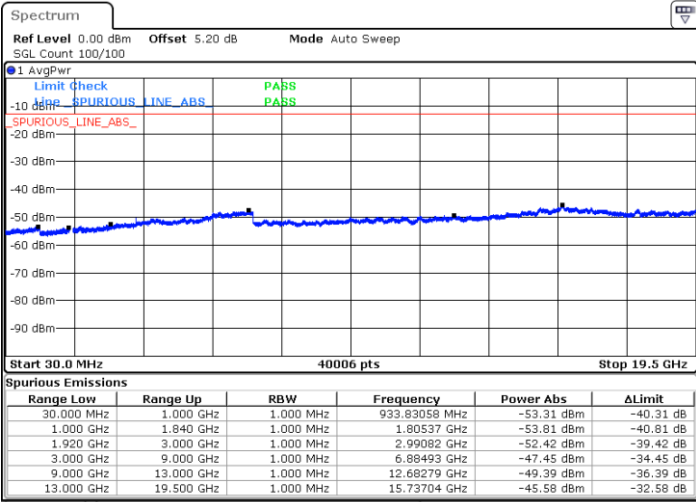




LTE Band 2 / 3MHz

Lowest Channel / 64QAM

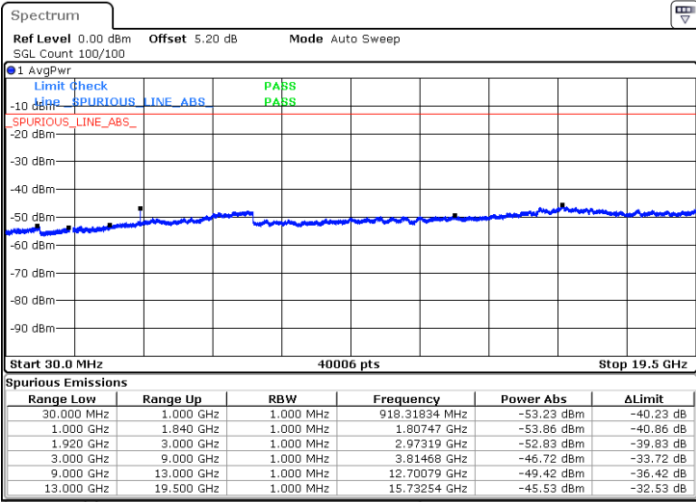
Middle Channel / 64QAM



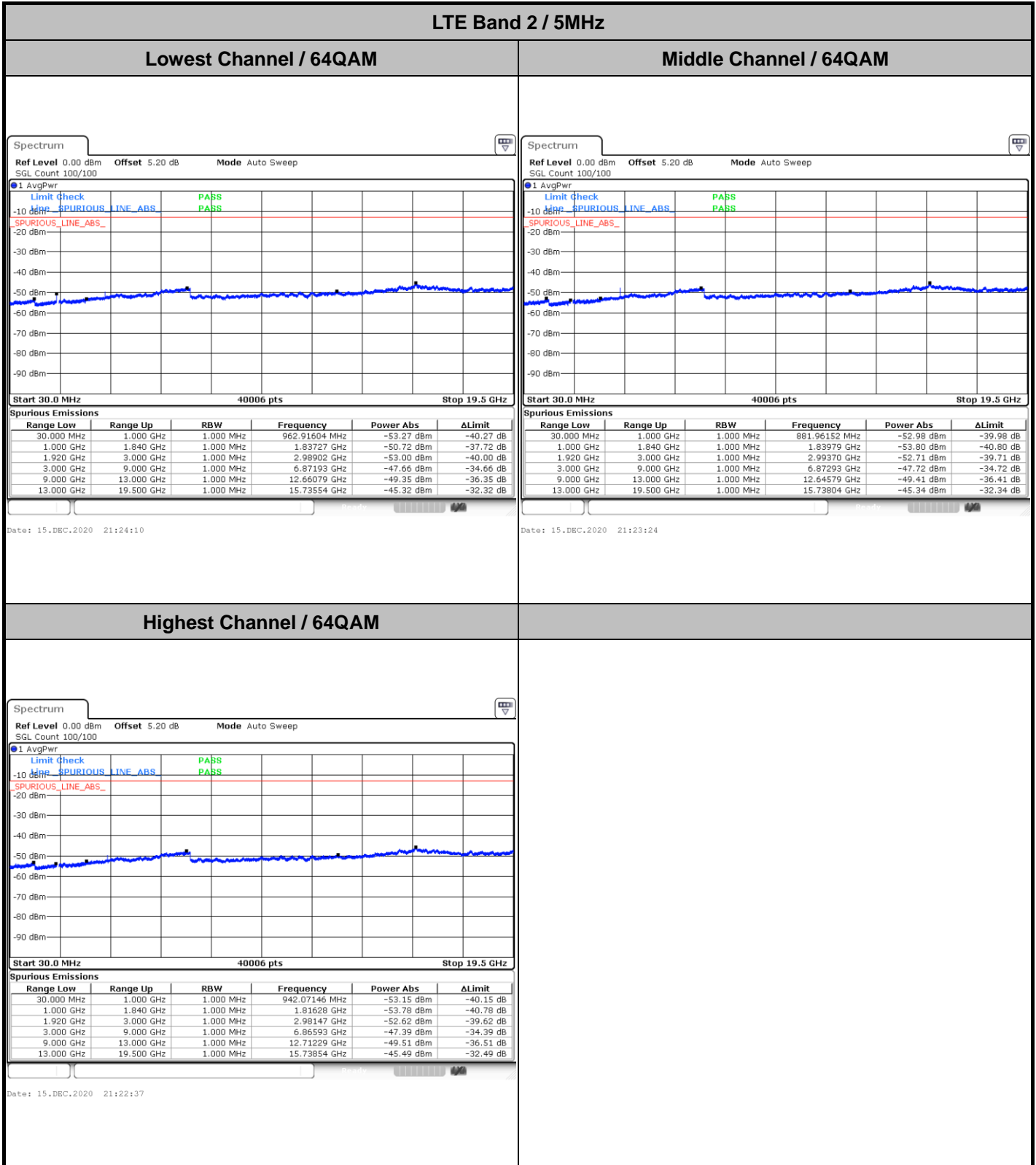
Date: 15.DEC.2020 21:18:04

Date: 15.DEC.2020 21:18:56

Highest Channel / 64QAM



Date: 15.DEC.2020 21:19:43

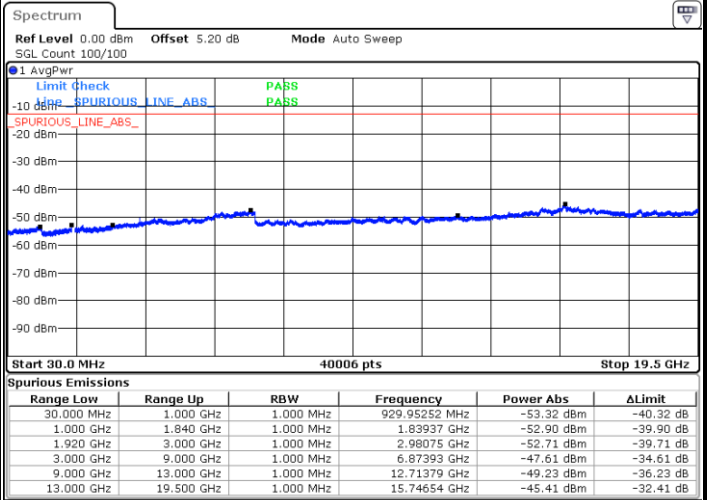
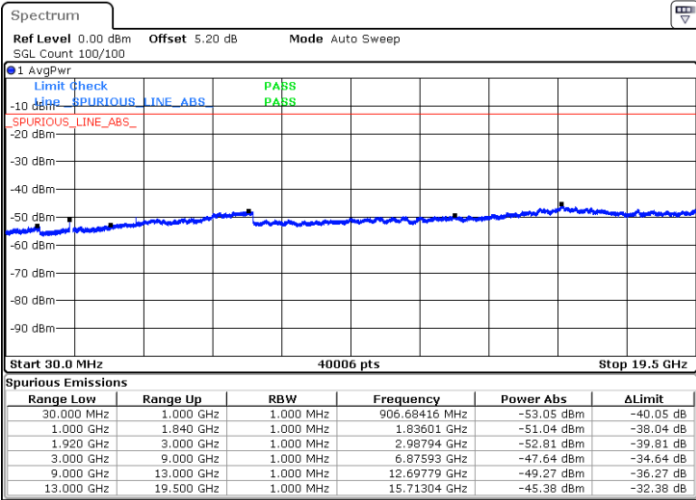




LTE Band 2 / 10MHz

Lowest Channel / 64QAM

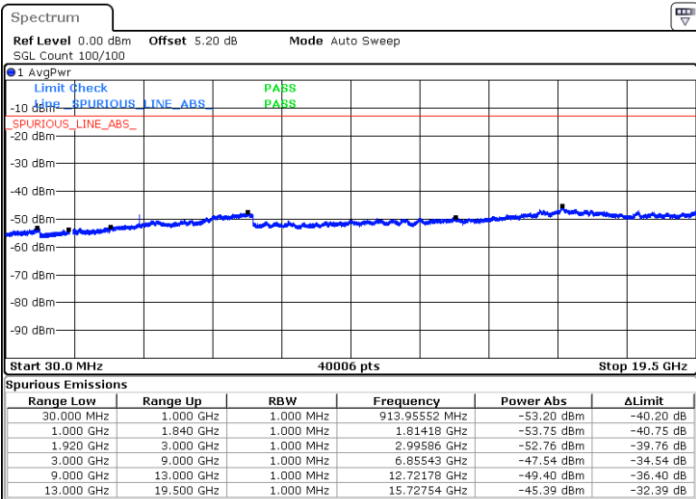
Middle Channel / 64QAM



Date: 15.DEC.2020 21:25:29

Date: 15.DEC.2020 21:26:19

Highest Channel / 64QAM



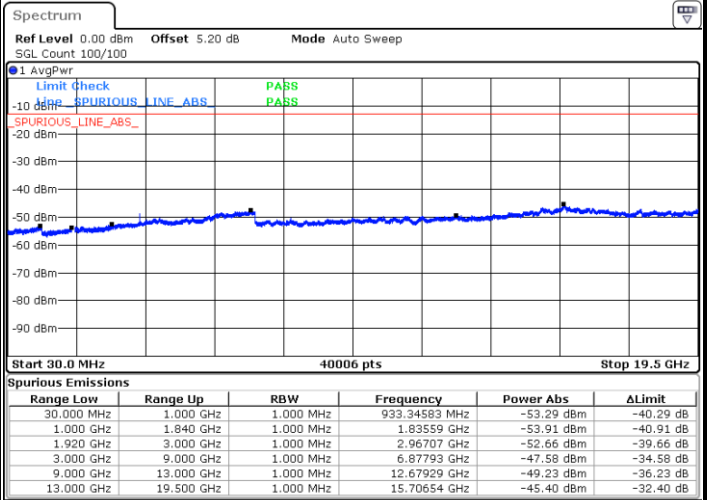
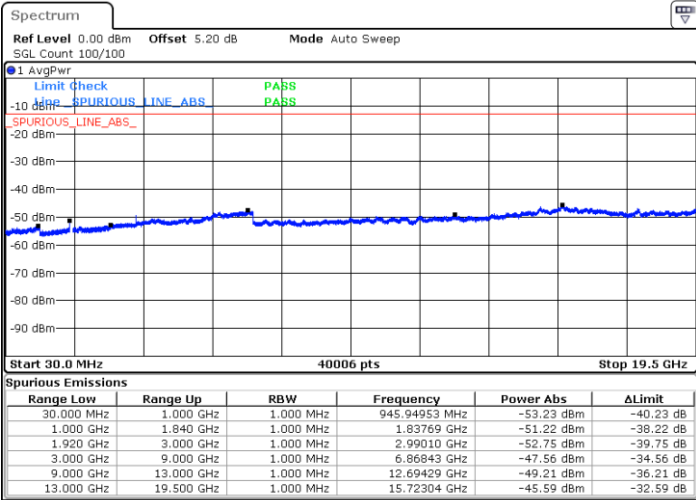
Date: 15.DEC.2020 21:27:07



LTE Band 2 / 15MHz

Lowest Channel / 64QAM

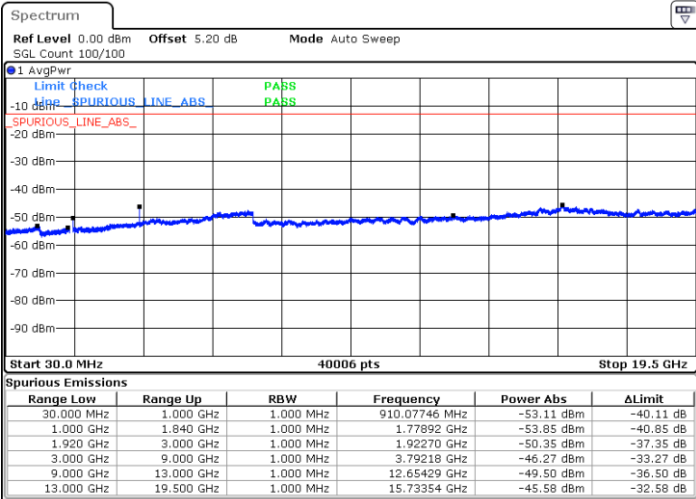
Middle Channel / 64QAM



Date: 15. DEC. 2020 21:29:33

Date: 15. DEC. 2020 21:30:30

Highest Channel / 64QAM



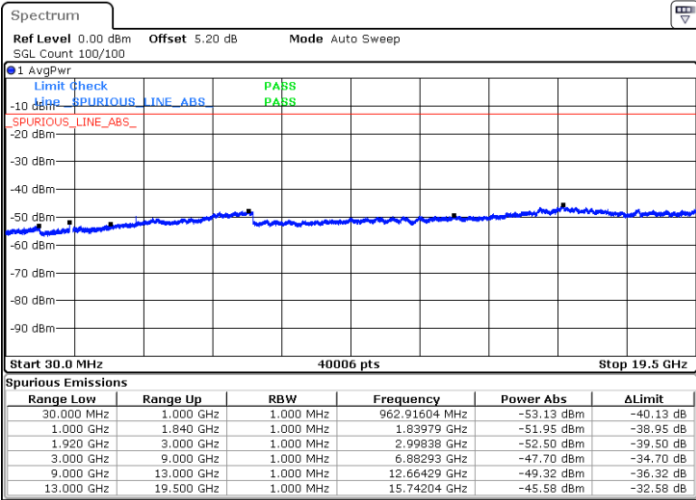
Date: 15. DEC. 2020 21:31:26



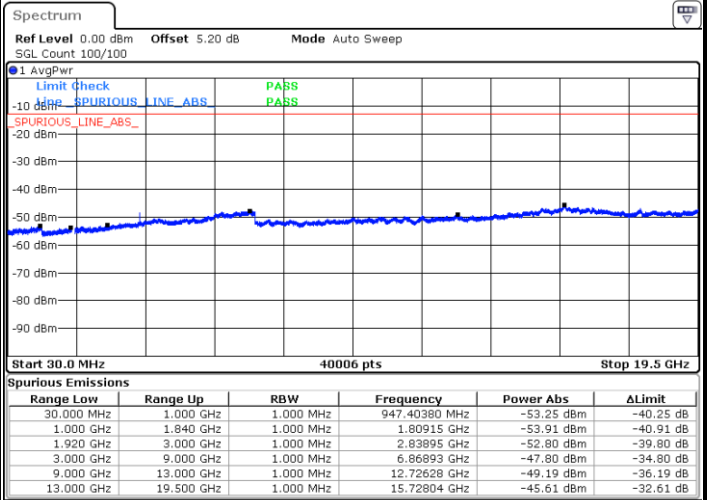
LTE Band 2 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

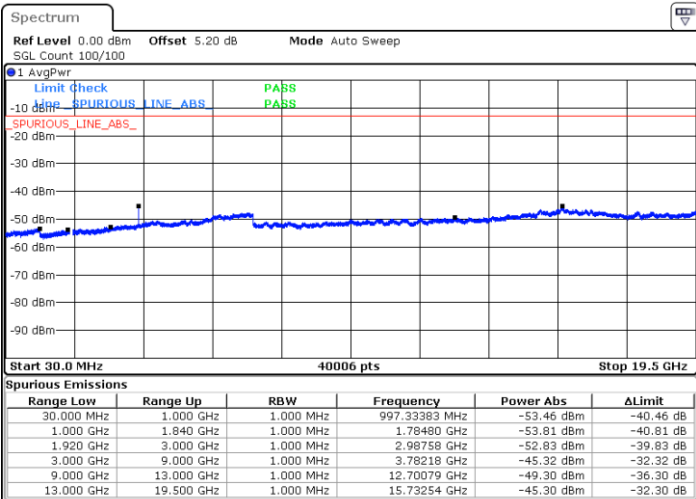


Date: 15. DEC. 2020 21:33:43



Date: 15. DEC. 2020 21:34:29

Highest Channel / 64QAM



Date: 15. DEC. 2020 21:36:03



**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0032	

**Note:**

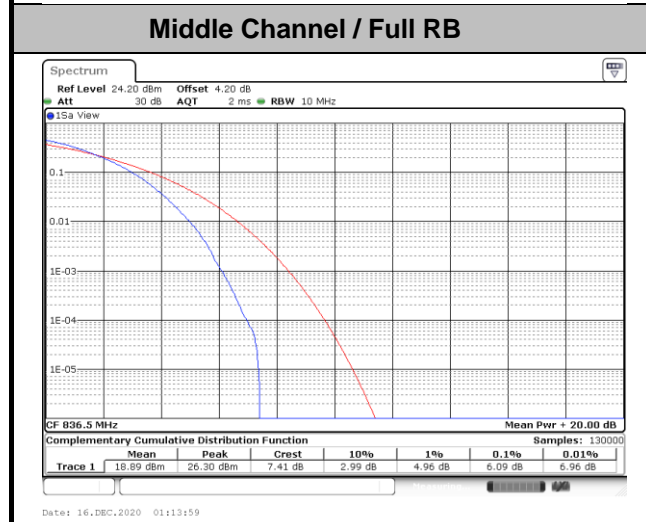
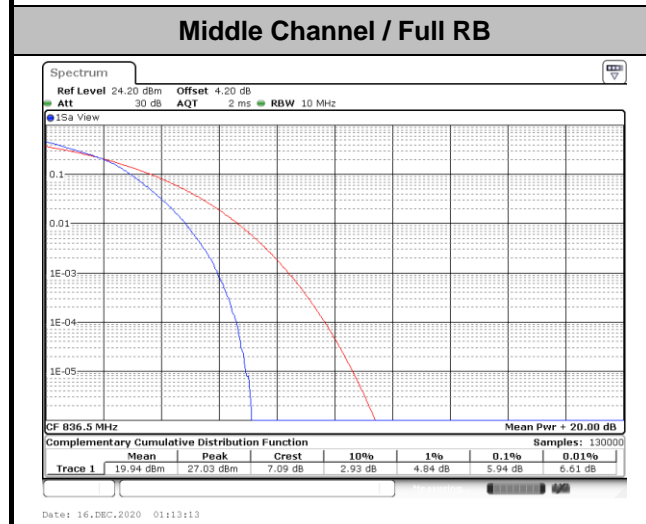
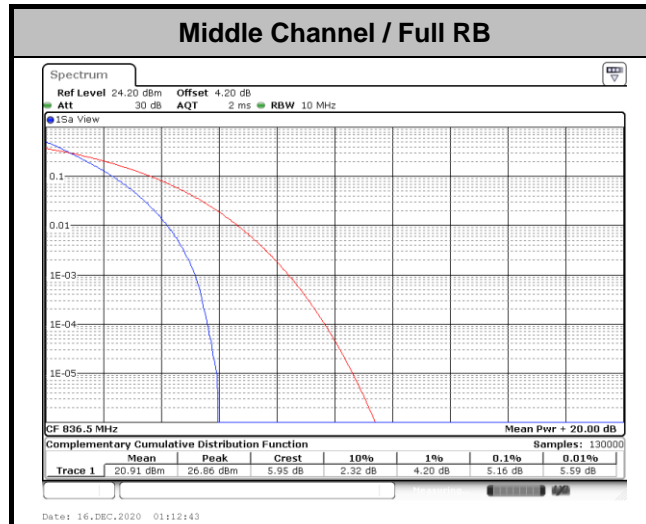
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 5

## Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size		Full RB		Full RB	Result
Lowest CH					PASS
Middle CH		5.16		5.94	
Highest CH					
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size		Full RB			Result
Lowest CH			-	-	PASS
Middle CH		6.09	-	-	
Highest CH			-	-	

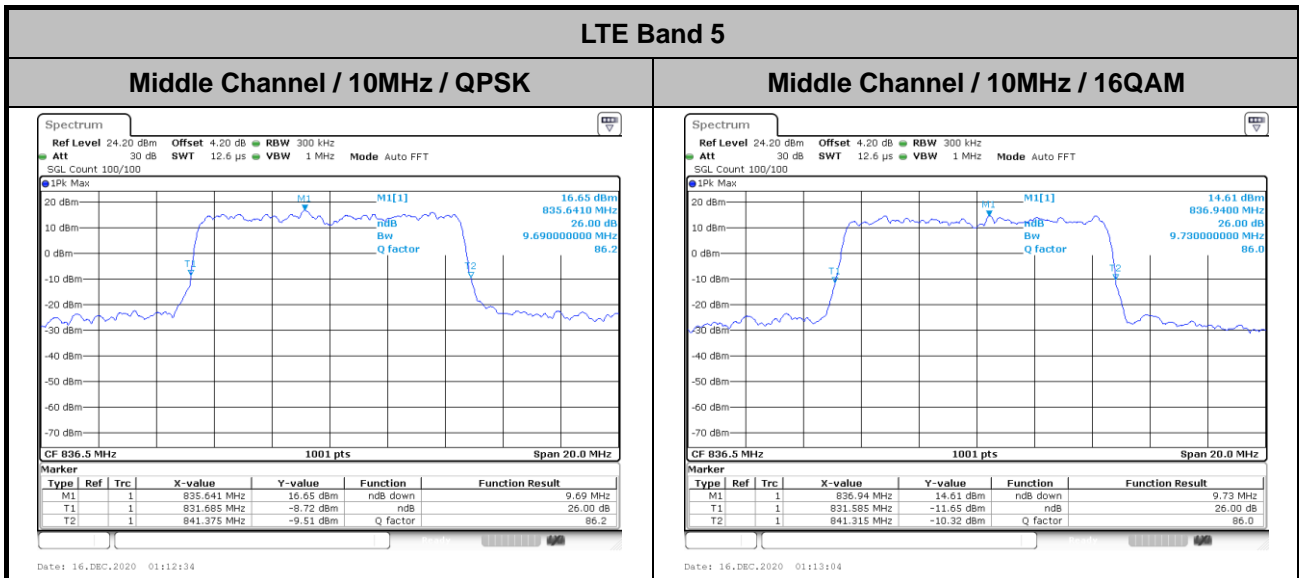






**26dB Bandwidth**

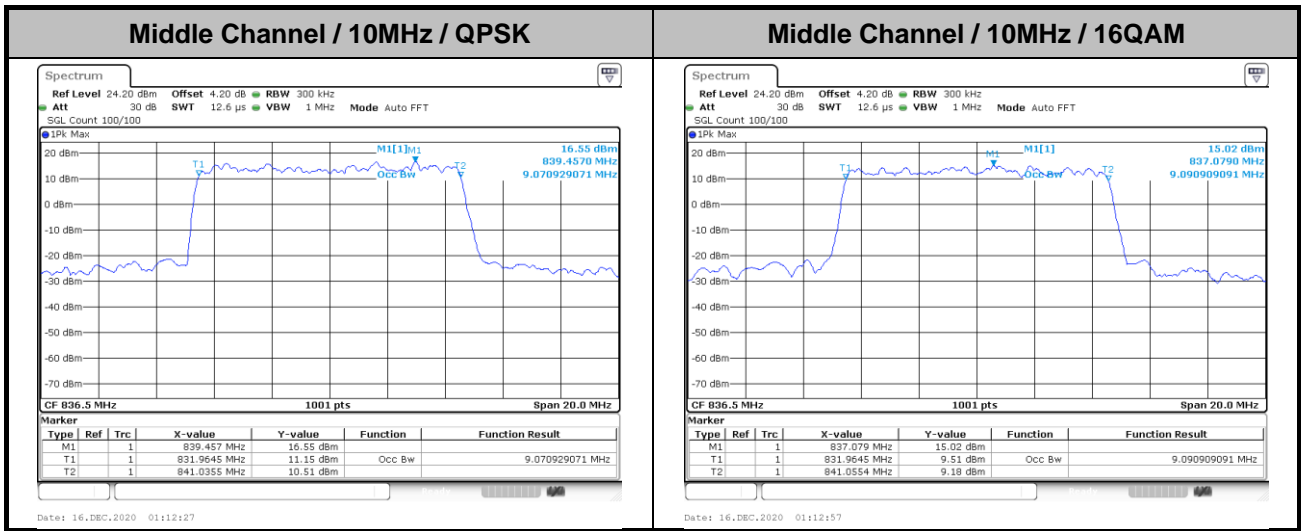
<b>Mode</b>	<b>LTE Band 5 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.69	9.73





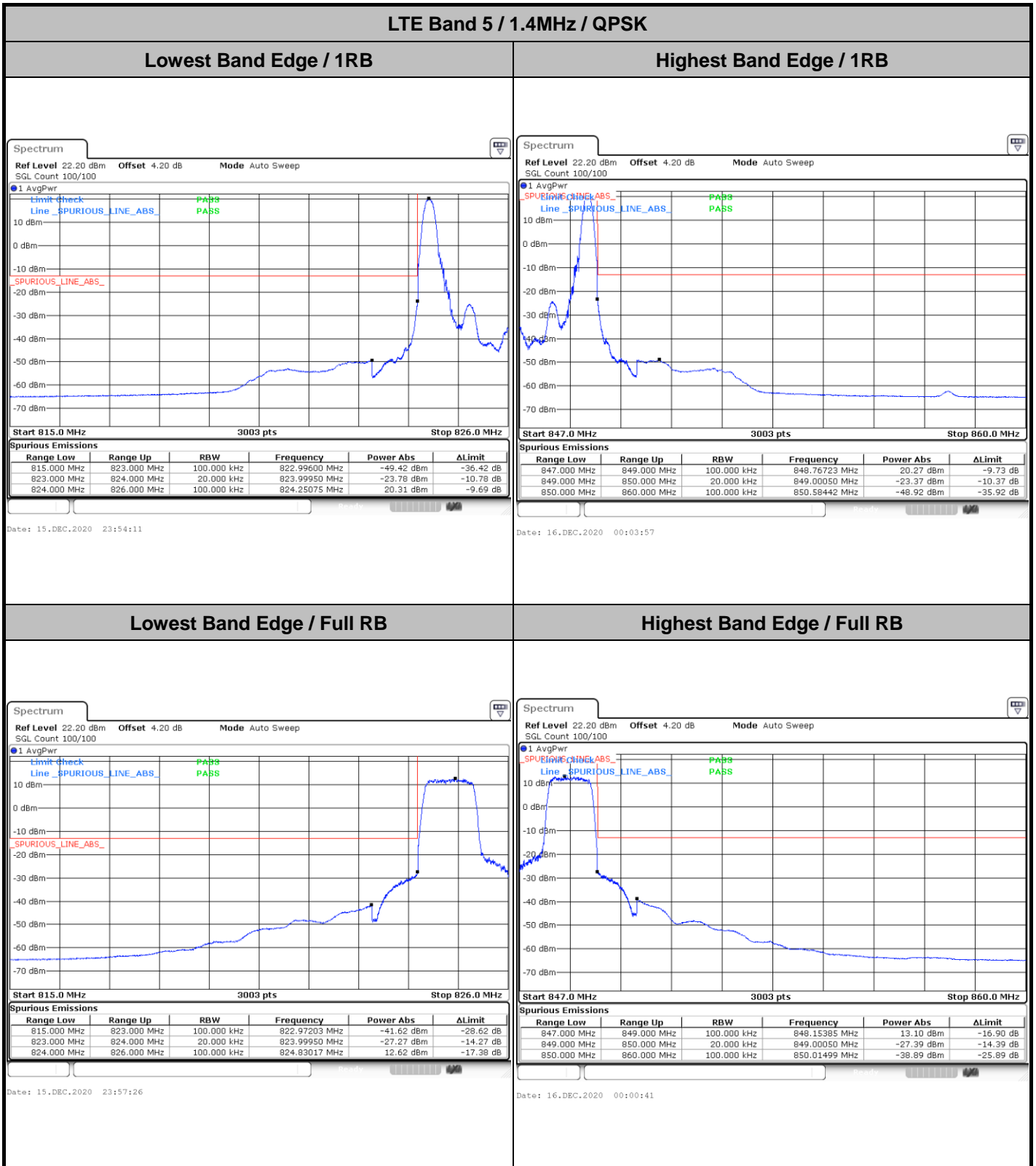
# Occupied Bandwidth

<b>Mode</b>	<b>LTE Band 5 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.07	9.09





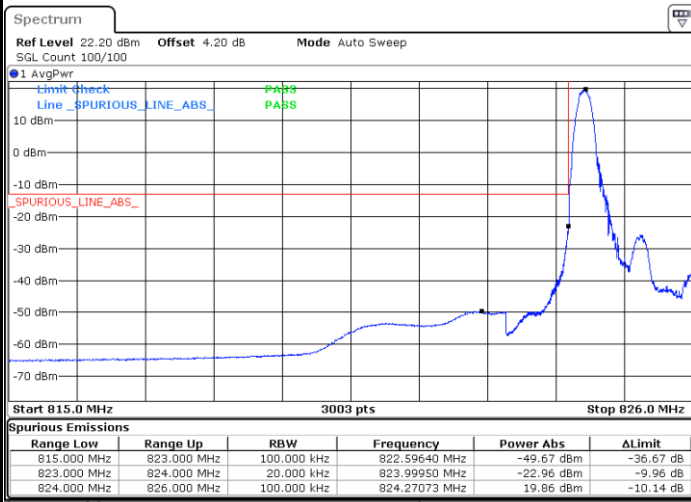
# Conducted Band Edge





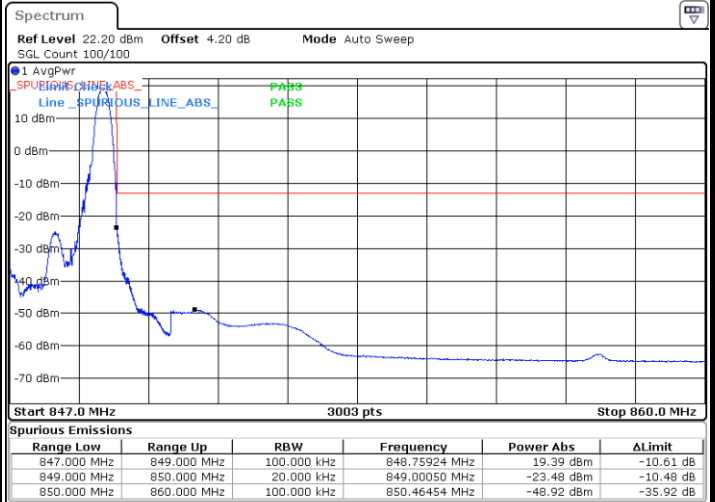
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



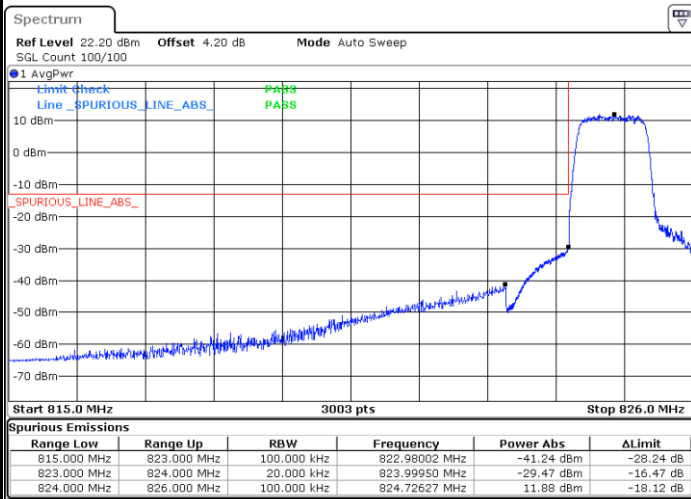
Date: 15.DEC.2020 23:55:48

Highest Band Edge / 1 RB



Date: 16.DEC.2020 00:05:34

Lowest Band Edge / Full RB



Date: 15.DEC.2020 23:59:04

Highest Band Edge / Full RB

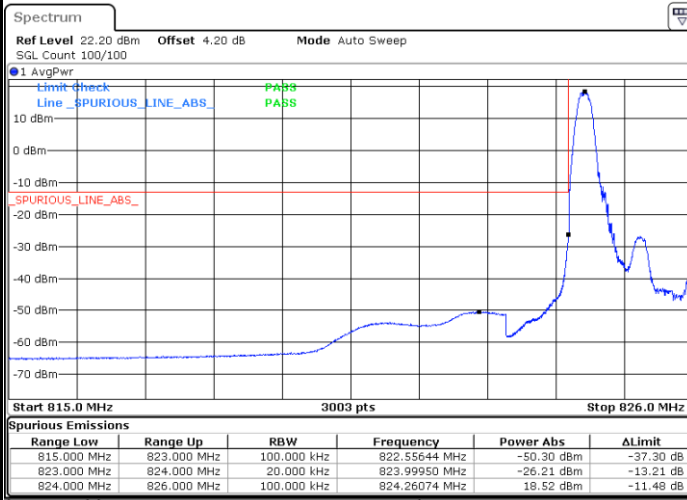


Date: 16.DEC.2020 00:02:19



LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



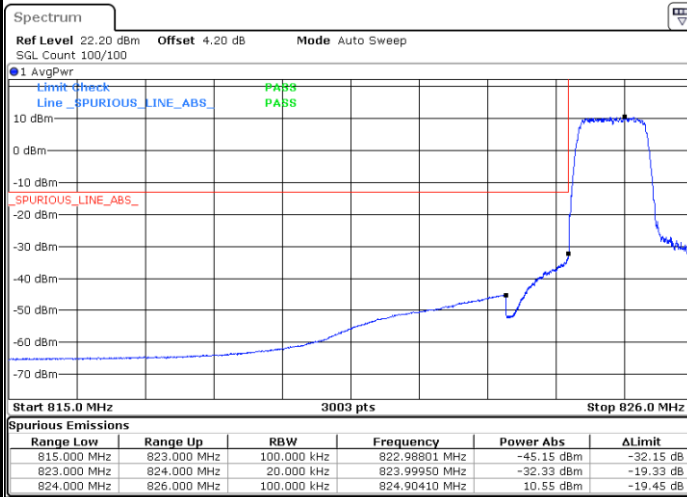
Date: 16.DEC.2020 00:46:15

Highest Band Edge / 1 RB



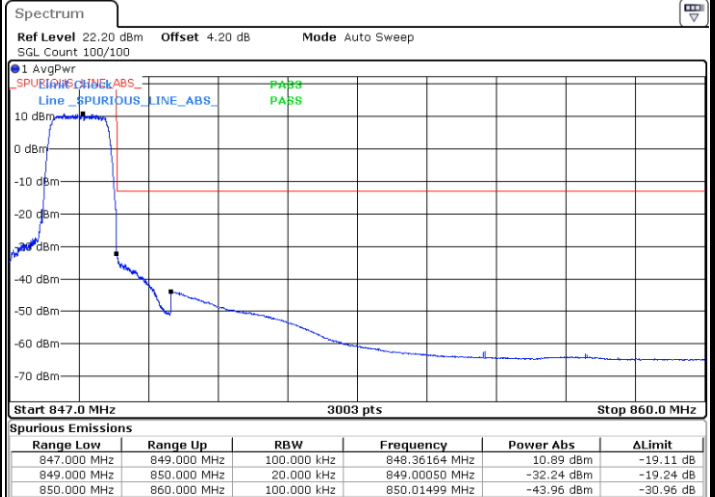
Date: 16.DEC.2020 00:49:31

Lowest Band Edge / Full RB



Date: 16.DEC.2020 01:11:28

Highest Band Edge / Full RB

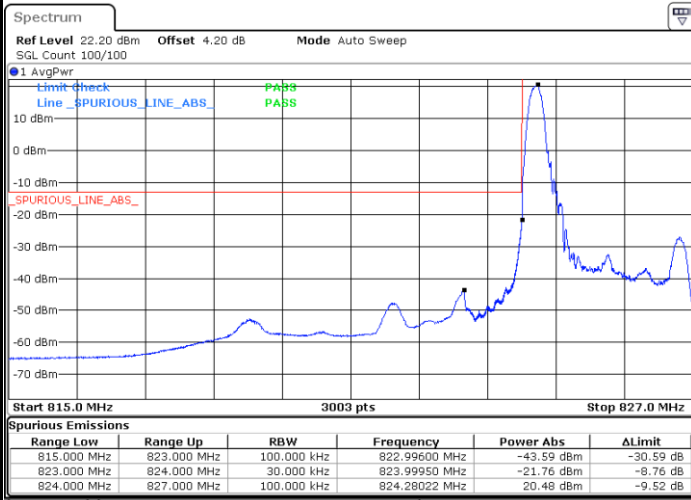


Date: 16.DEC.2020 00:47:53



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



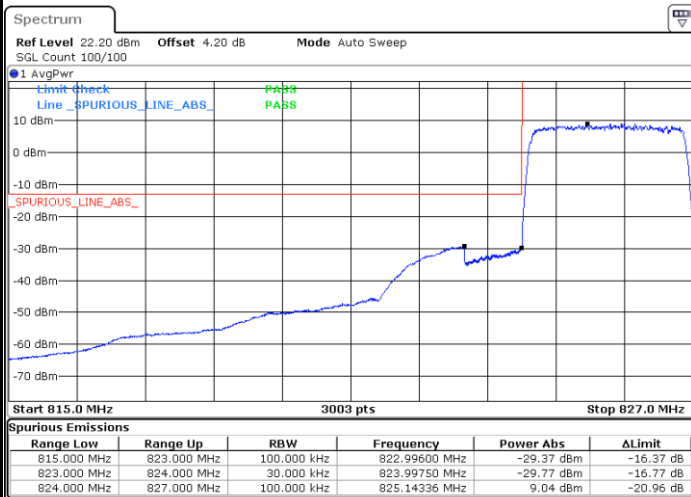
Date: 16.DEC.2020 00:07:12

Highest Band Edge / 1 RB



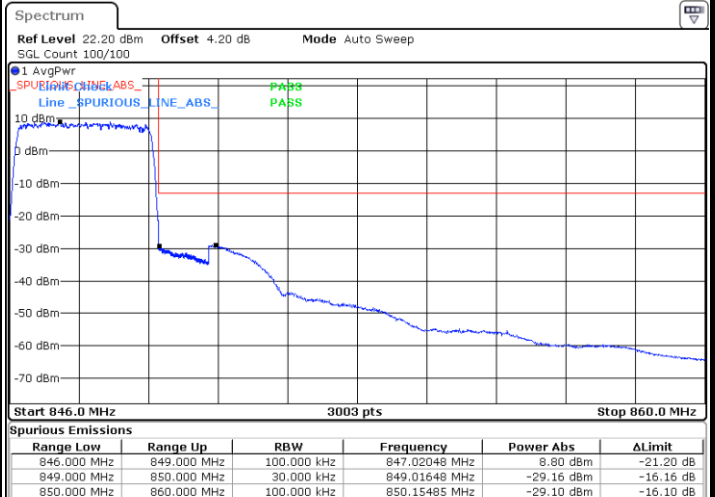
Date: 16.DEC.2020 00:13:42

Lowest Band Edge / Full RB



Date: 16.DEC.2020 00:10:27

Highest Band Edge / Full RB

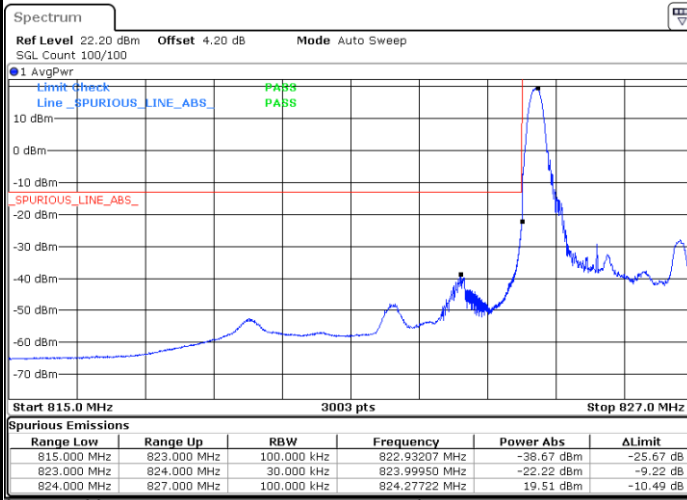


Date: 16.DEC.2020 00:16:58



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



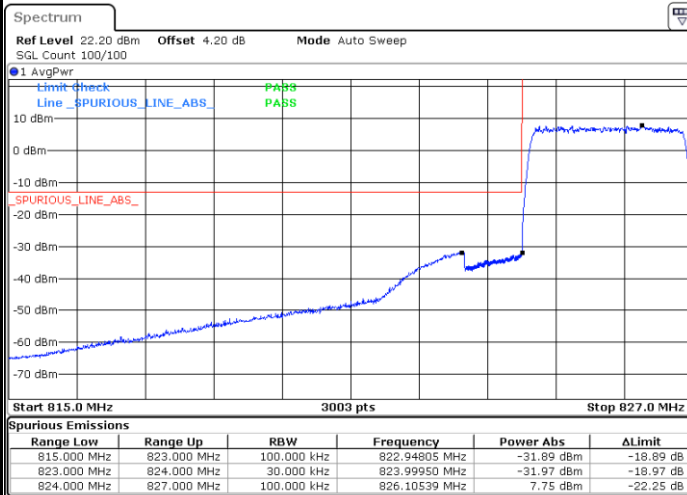
Date: 16.DEC.2020 00:08:50

Highest Band Edge / 1 RB



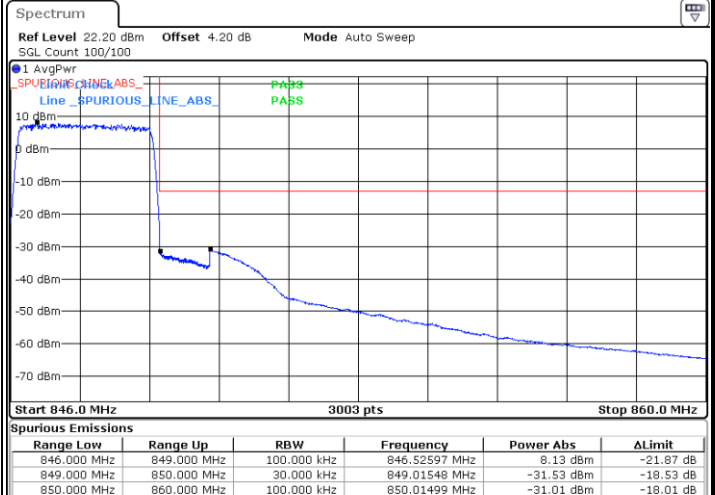
Date: 16.DEC.2020 00:15:20

Lowest Band Edge / Full RB



Date: 16.DEC.2020 00:12:05

Highest Band Edge / Full RB

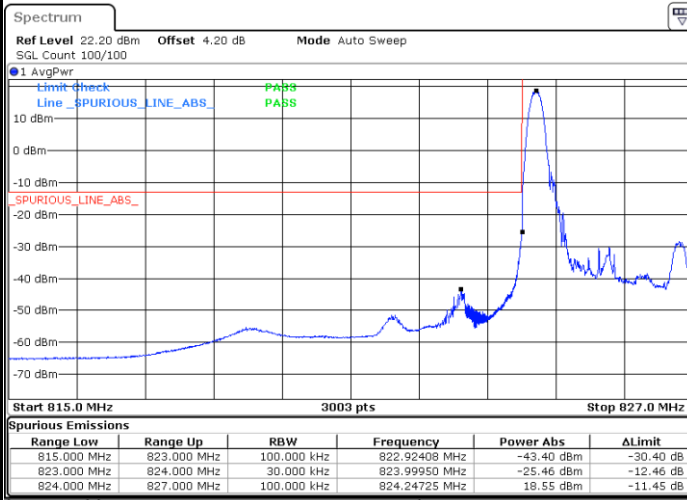


Date: 16.DEC.2020 00:18:35



LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



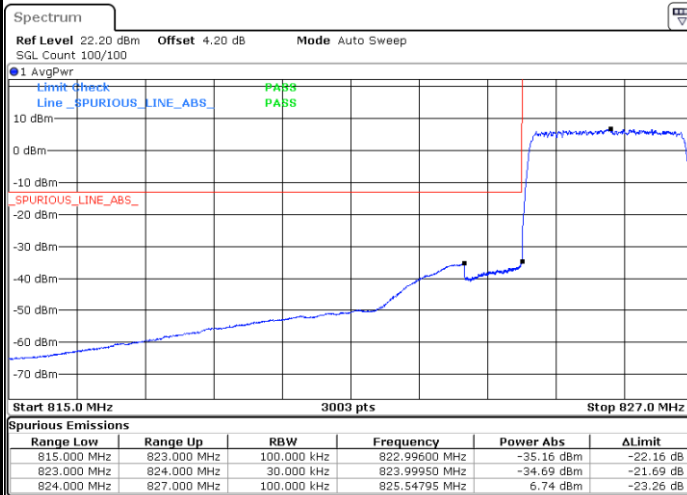
Date: 16.DEC.2020 00:52:46

Highest Band Edge / 1 RB



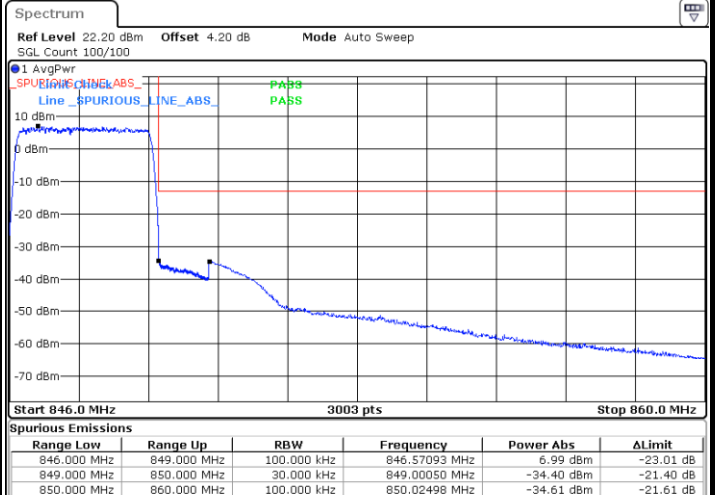
Date: 16.DEC.2020 00:56:01

Lowest Band Edge / Full RB



Date: 16.DEC.2020 00:51:08

Highest Band Edge / Full RB



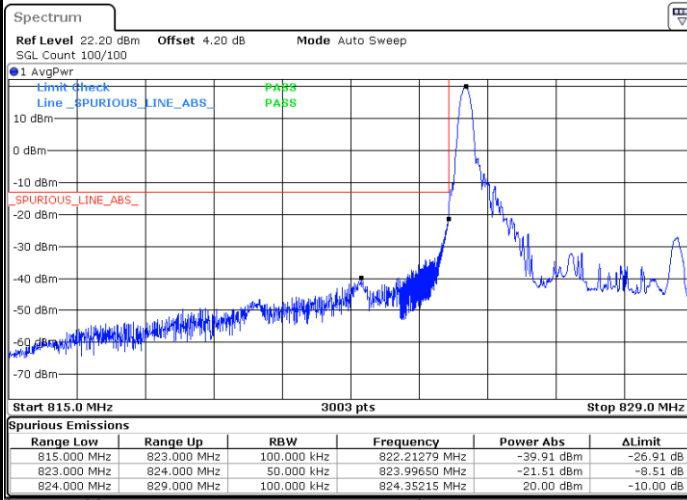
Date: 16.DEC.2020 00:54:24





LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



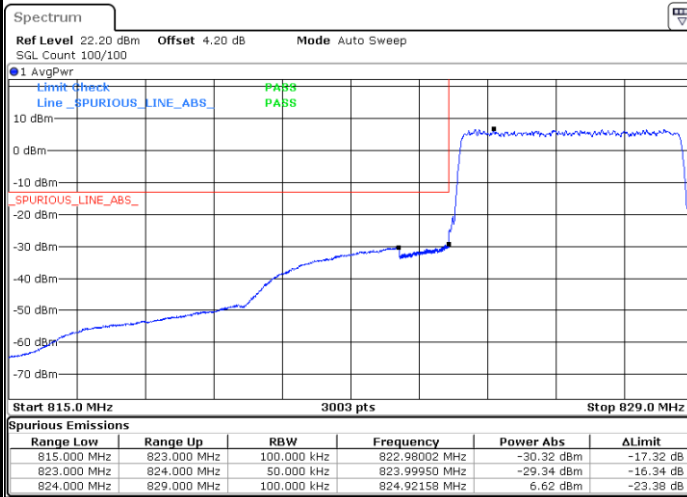
Date: 16.DEC.2020 00:20:13

Highest Band Edge / 1 RB



Date: 16.DEC.2020 00:26:44

Lowest Band Edge / Full RB



Date: 16.DEC.2020 00:23:28

Highest Band Edge / Full RB

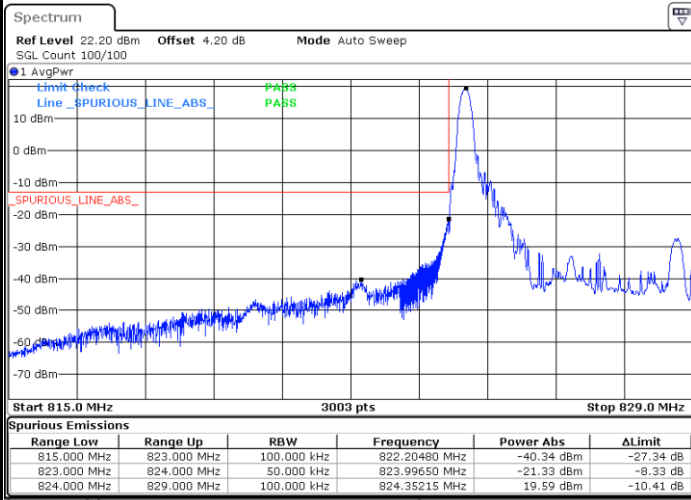


Date: 16.DEC.2020 00:29:59



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



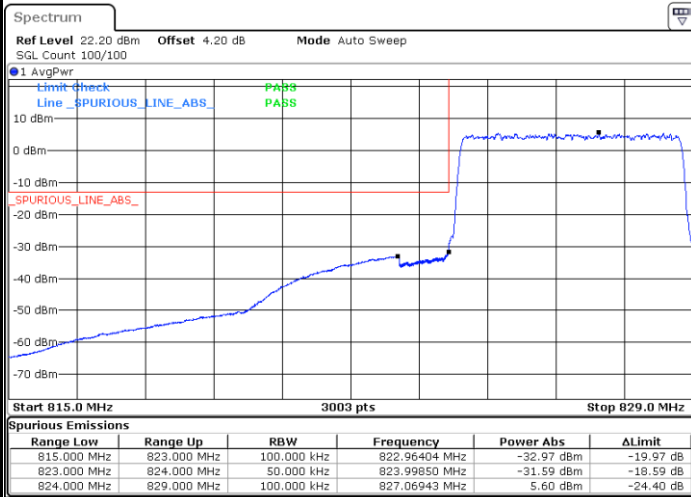
Date: 16.DEC.2020 00:21:51

Highest Band Edge / 1 RB



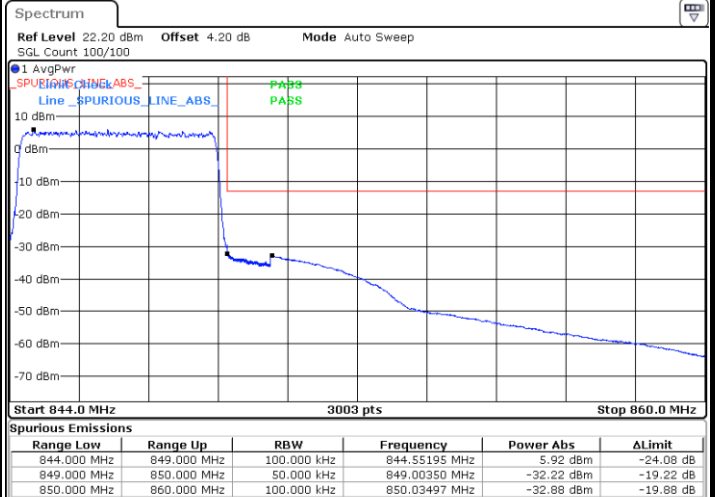
Date: 16.DEC.2020 00:28:21

Lowest Band Edge / Full RB



Date: 16.DEC.2020 00:25:06

Highest Band Edge / Full RB

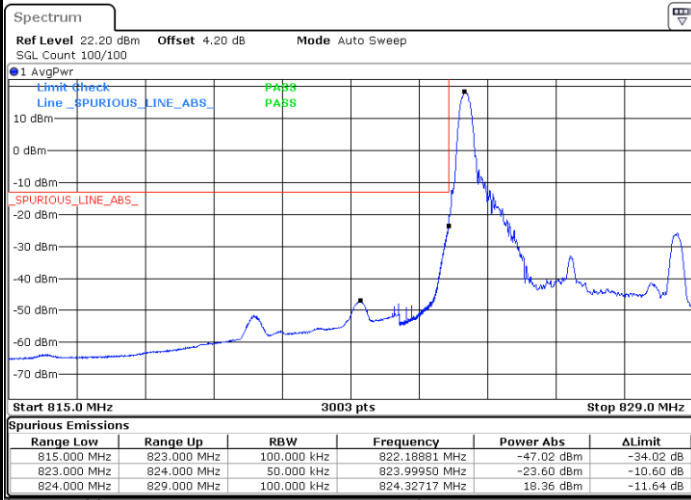


Date: 16.DEC.2020 00:31:37



LTE Band 5 / 5MHz / 64QAM

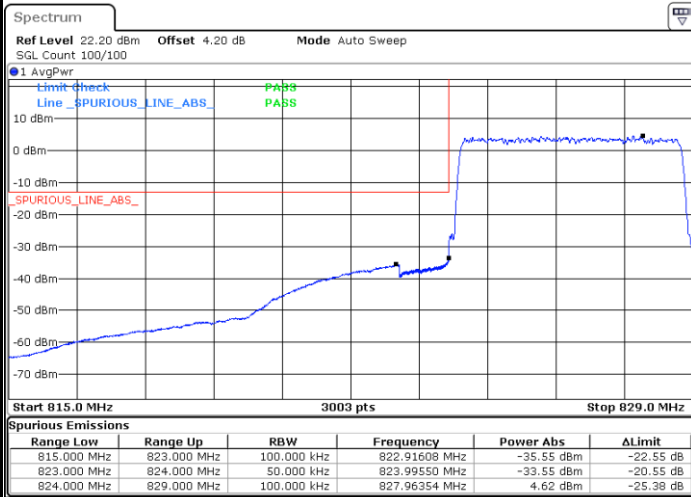
Lowest Band Edge / 1RB



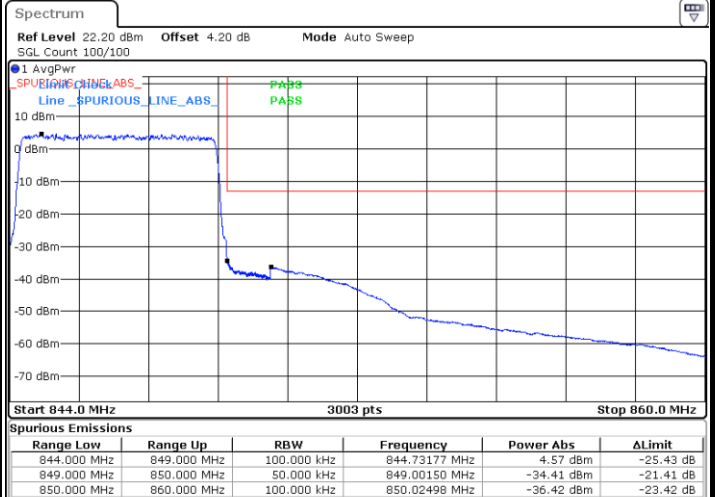
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

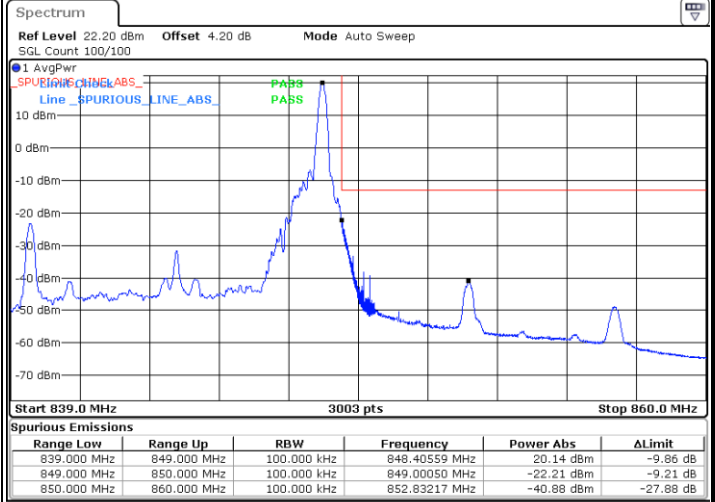
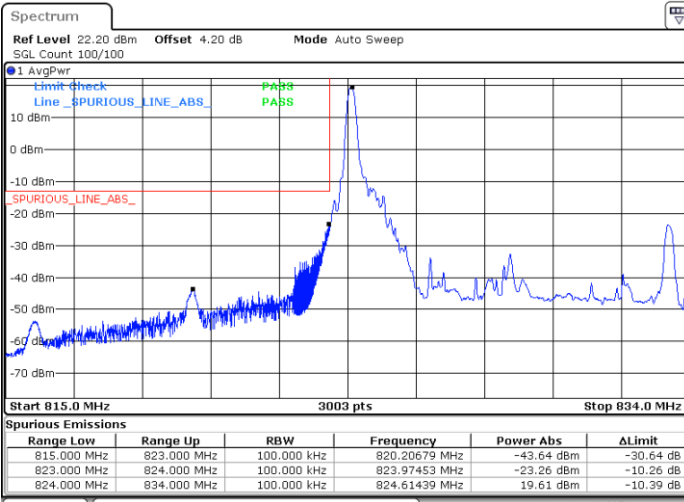




LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

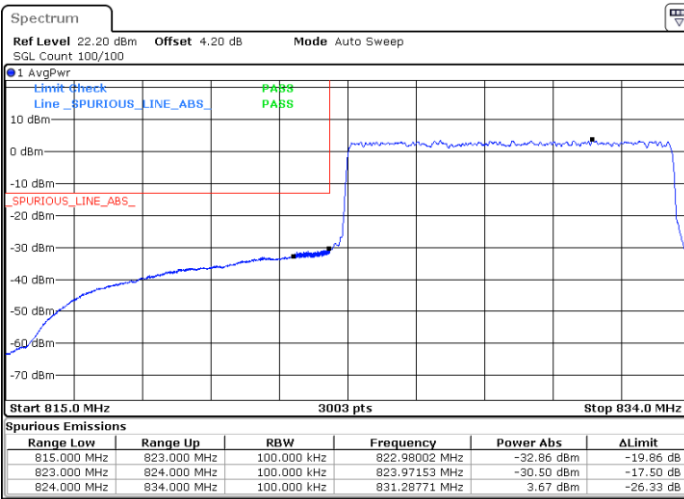


Date: 16.DEC.2020 00:33:14

Date: 16.DEC.2020 00:39:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



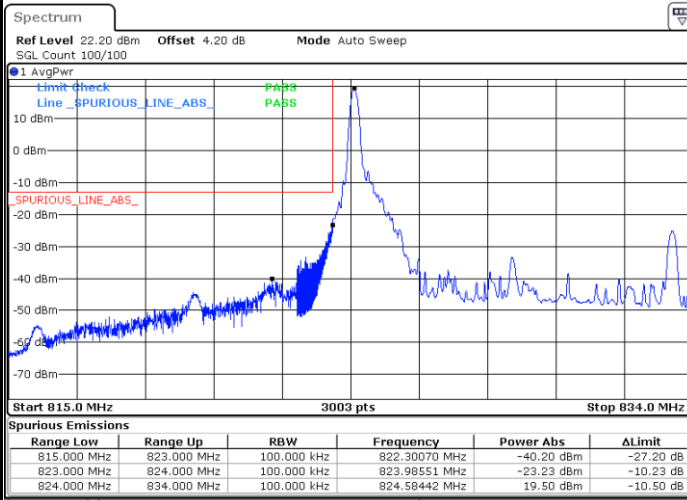
Date: 16.DEC.2020 00:36:30

Date: 16.DEC.2020 00:43:00



LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



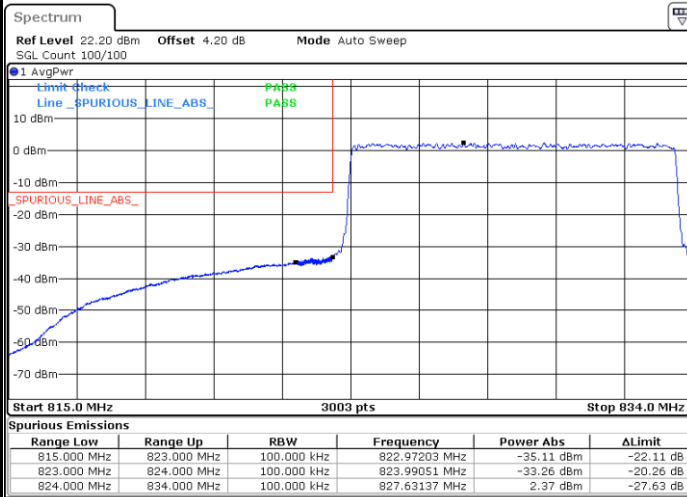
Date: 16.DEC.2020 00:34:52

Highest Band Edge / 1 RB



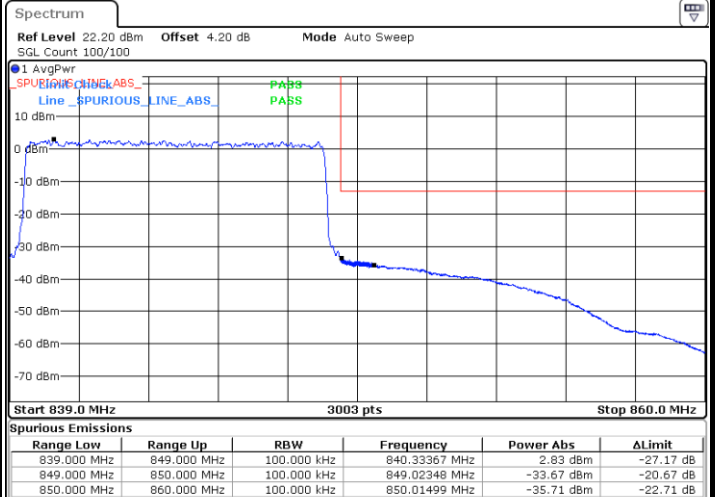
Date: 16.DEC.2020 00:41:23

Lowest Band Edge / Full RB



Date: 16.DEC.2020 00:38:07

Highest Band Edge / Full RB

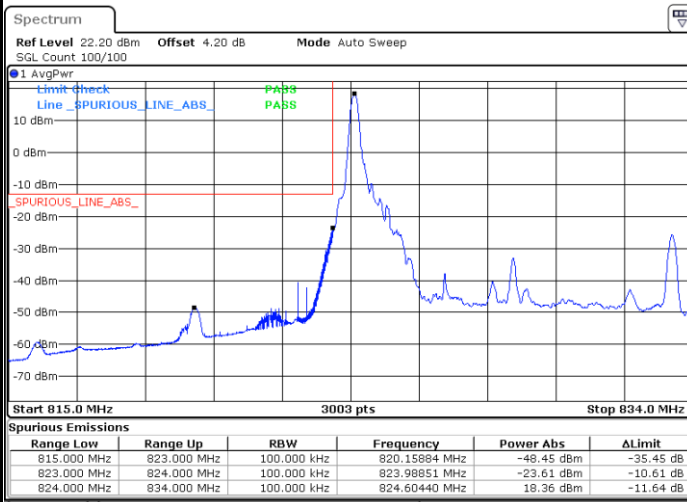


Date: 16.DEC.2020 00:44:38



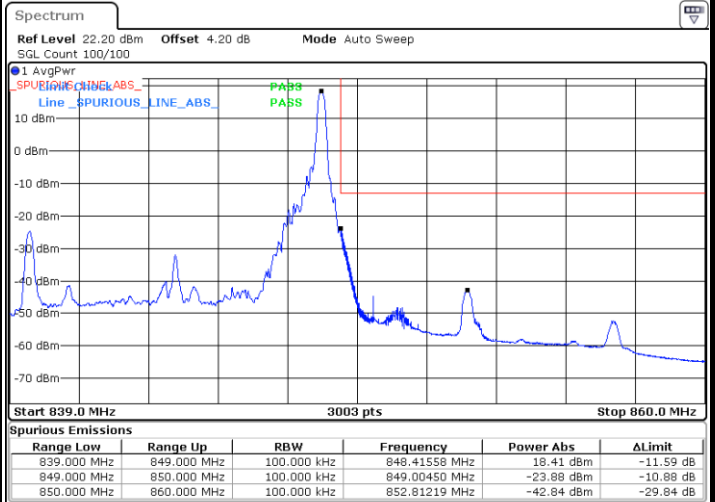
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



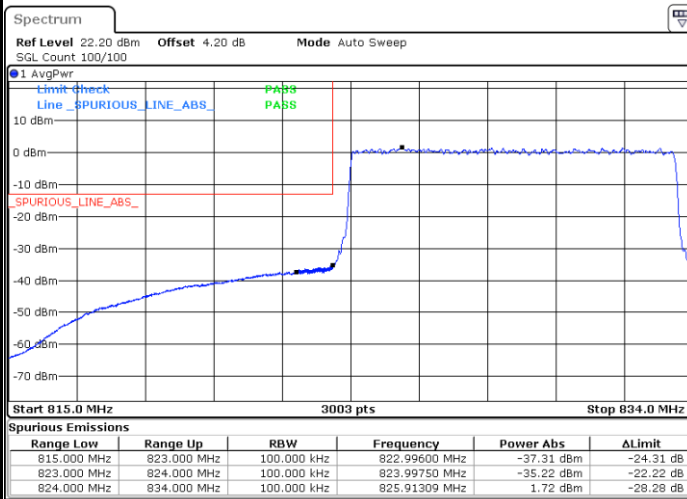
Date: 16.DEC.2020 01:05:47

Highest Band Edge / 1 RB



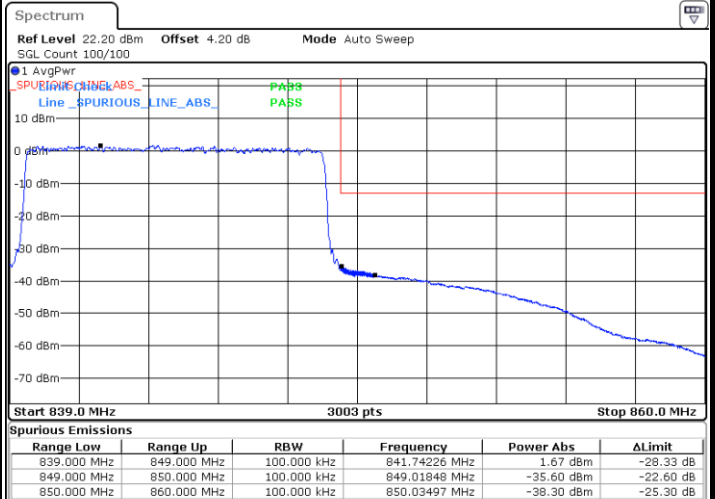
Date: 16.DEC.2020 01:09:02

Lowest Band Edge / Full RB



Date: 16.DEC.2020 01:04:09

Highest Band Edge / Full RB



Date: 16.DEC.2020 01:07:24



# Conducted Spurious Emission

