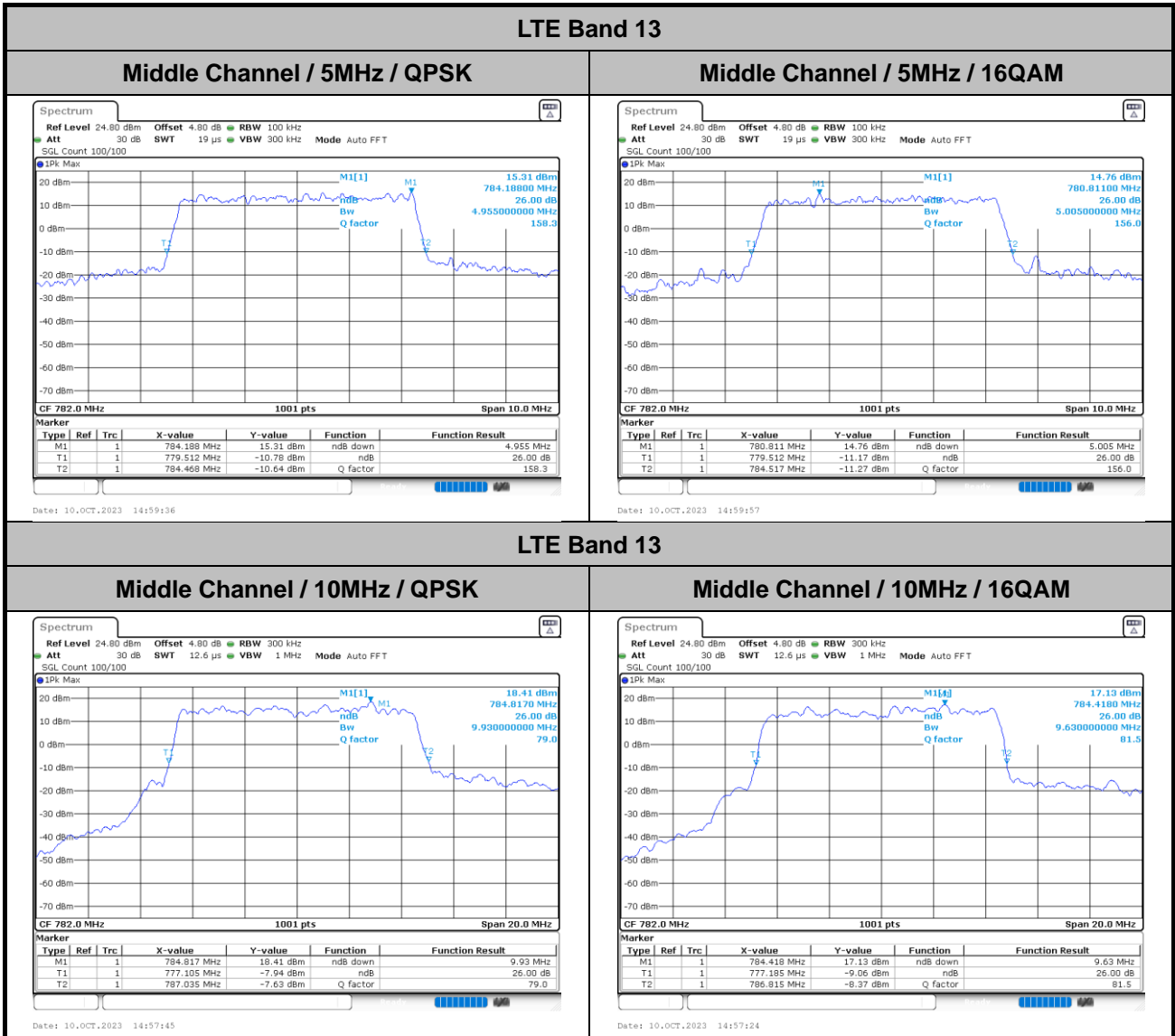




## 26dB Bandwidth

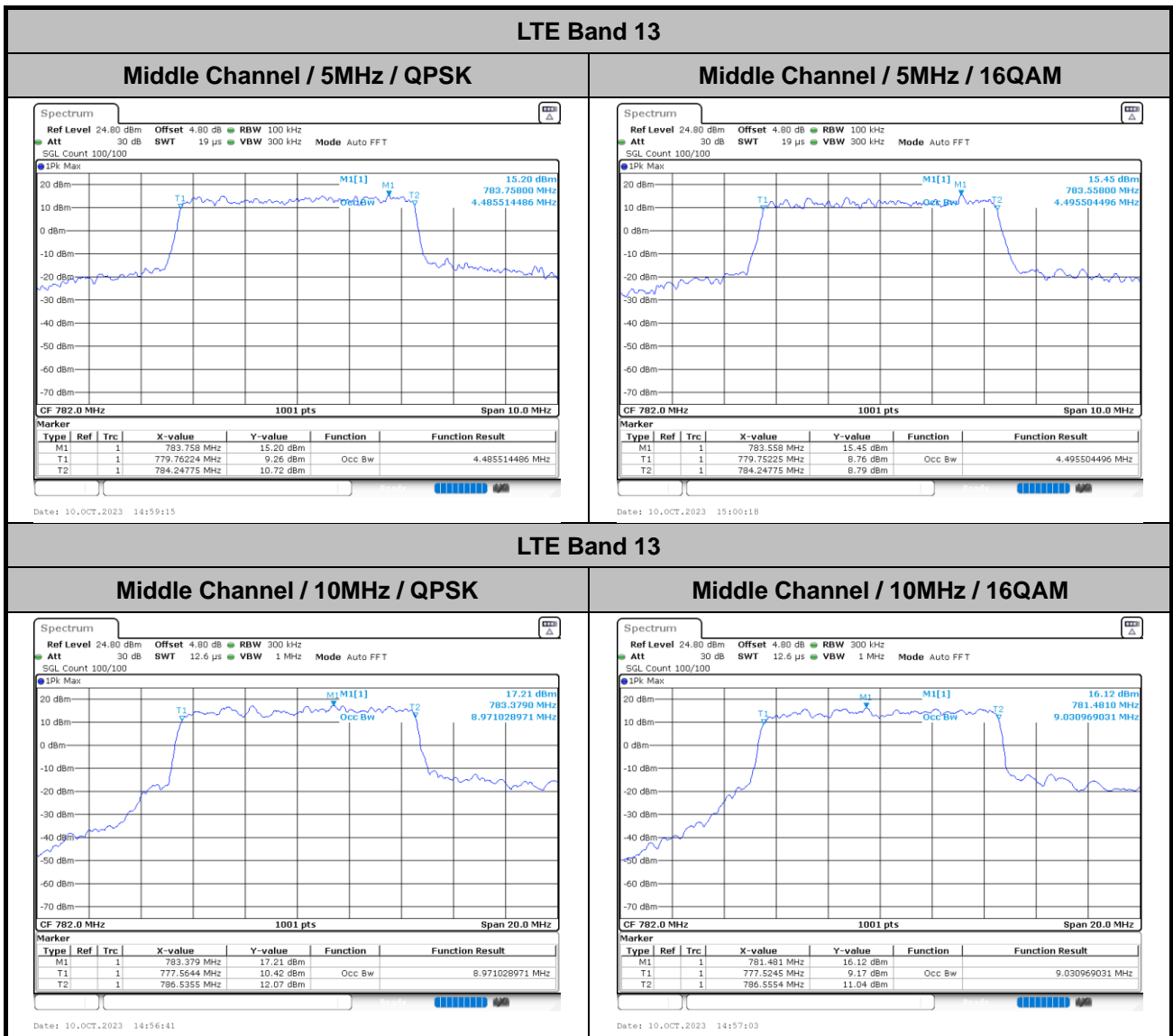
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.96	5.01
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.93	9.63





# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	9.03

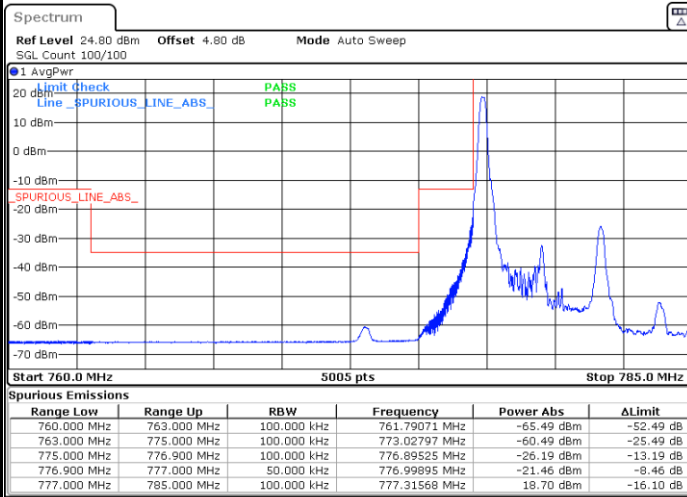




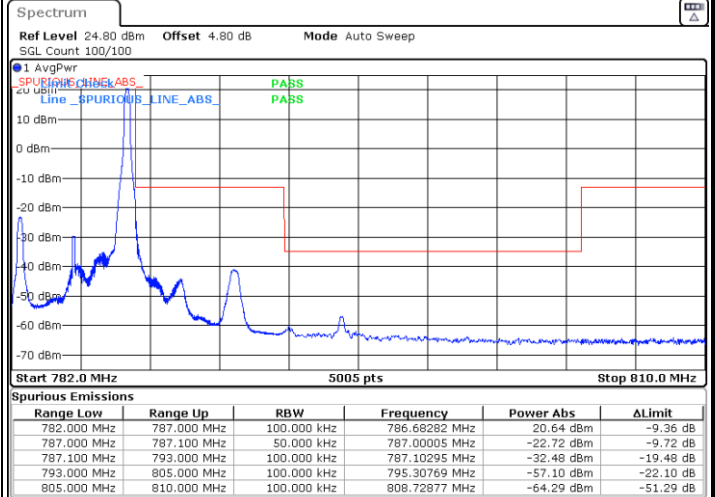
# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

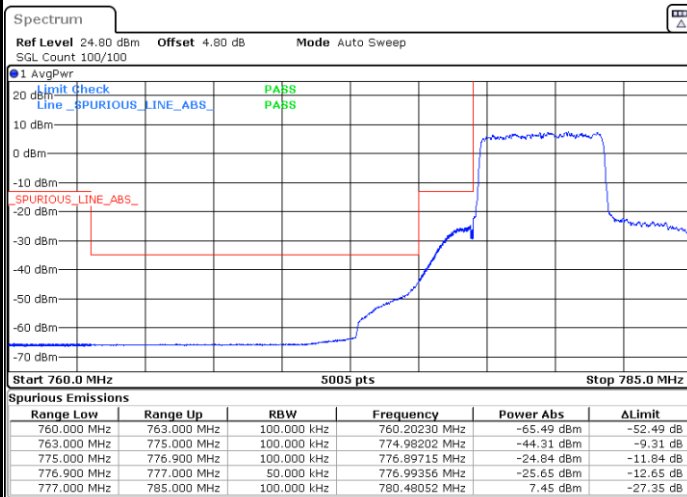
### Lowest Band Edge / 1 RB



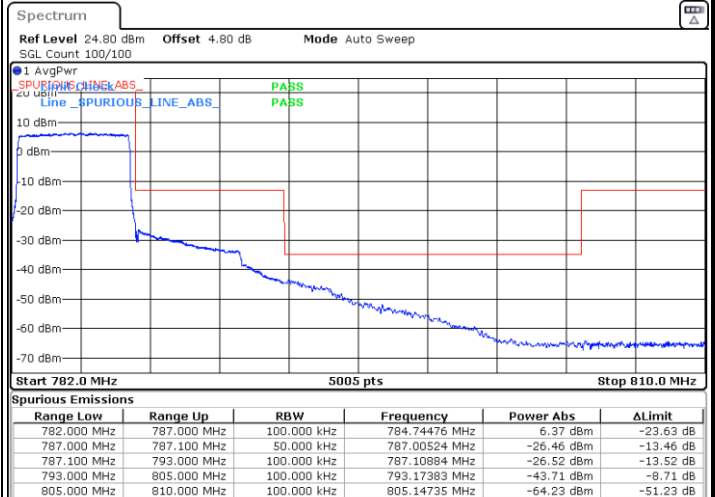
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB

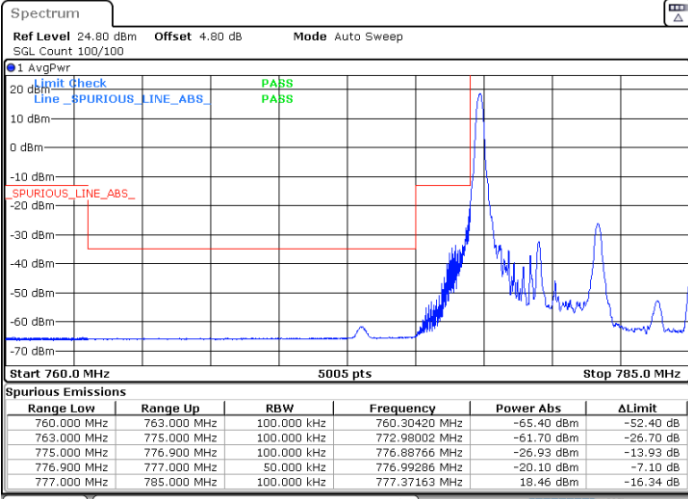




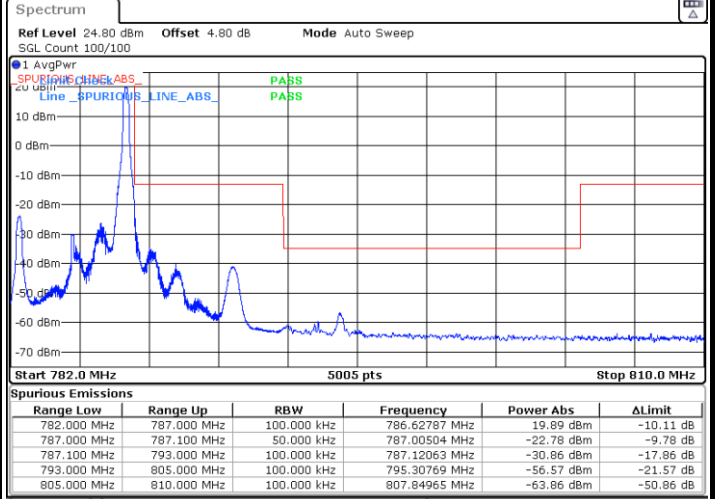
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



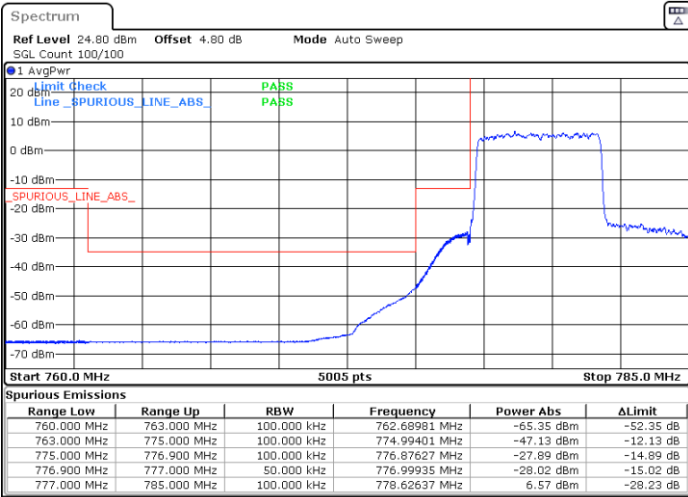
Date: 10.OCT.2023 14:15:08



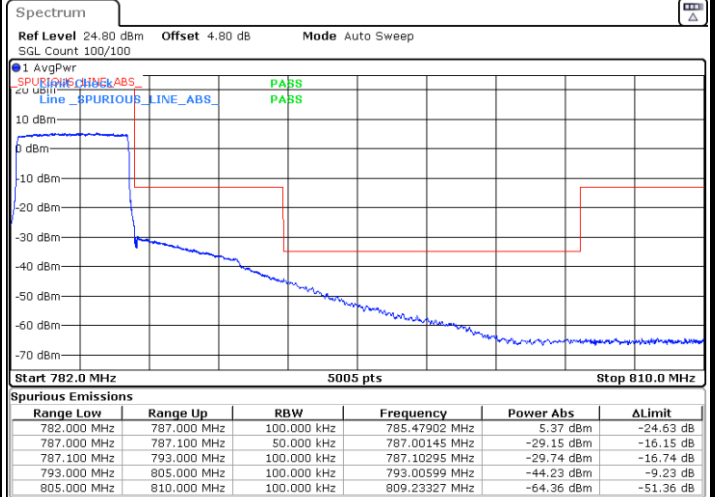
Date: 10.OCT.2023 14:31:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.OCT.2023 14:22:57

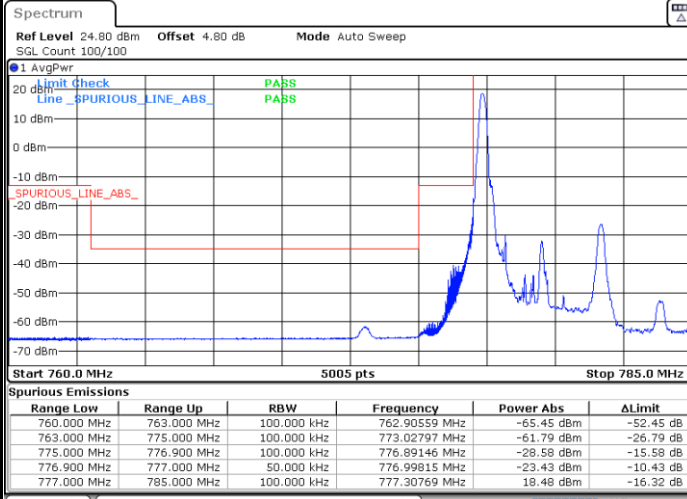


Date: 10.OCT.2023 14:36:41



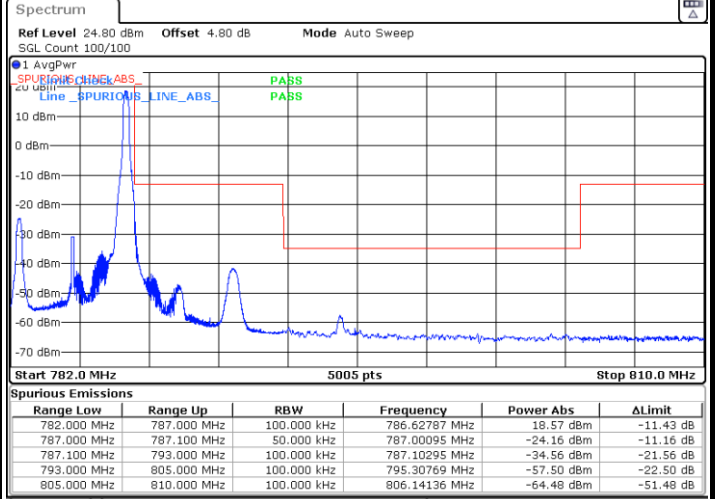
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



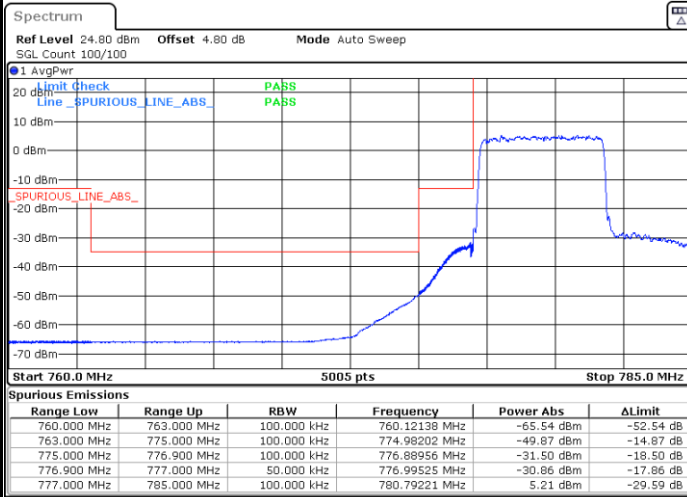
Date: 10.OCT.2023 14:17:00

Highest Band Edge / 1 RB



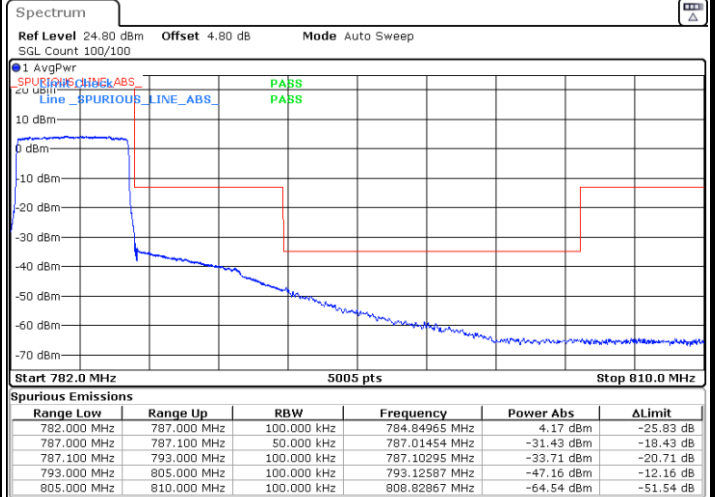
Date: 10.OCT.2023 14:32:59

Lowest Band Edge / Full RB



Date: 10.OCT.2023 14:21:06

Highest Band Edge / Full RB

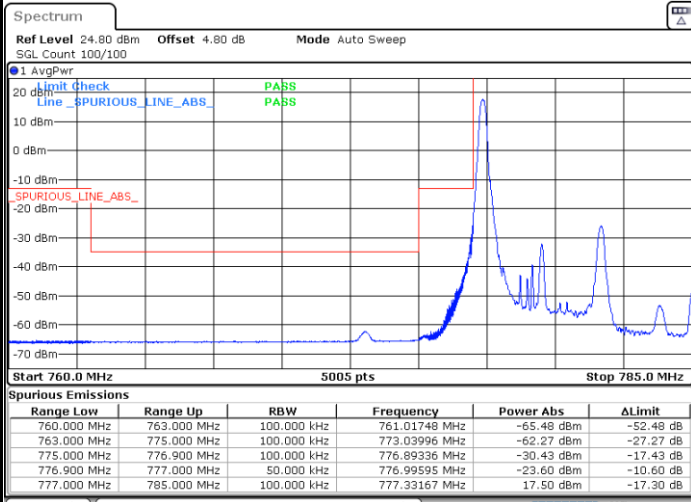


Date: 10.OCT.2023 14:34:50



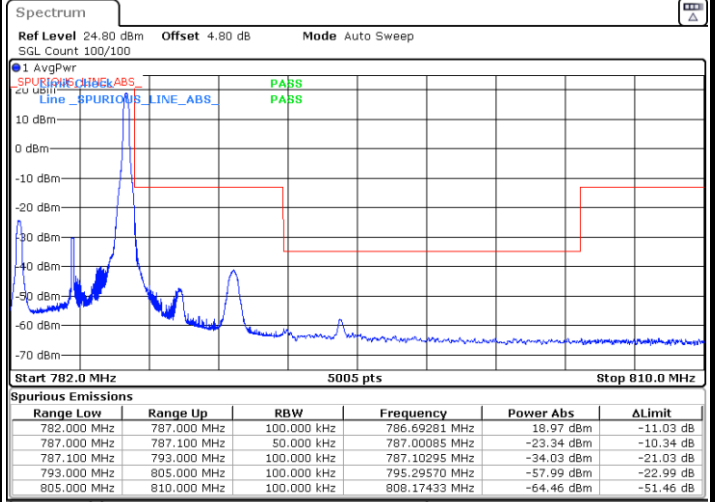
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB



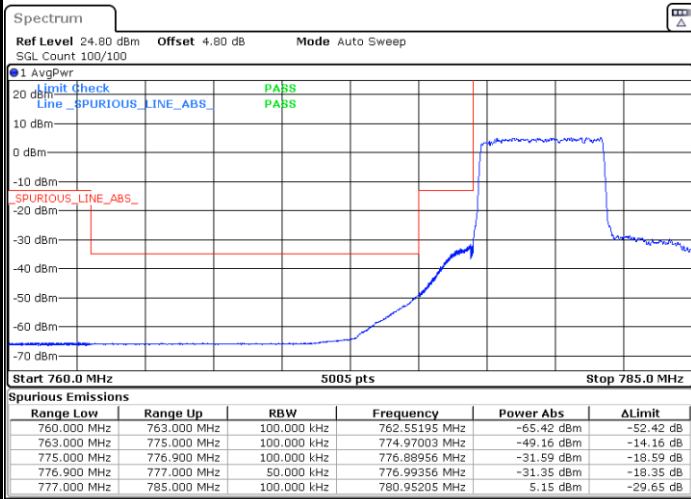
Date: 10.OCT.2023 15:03:30

Highest Band Edge / 1 RB



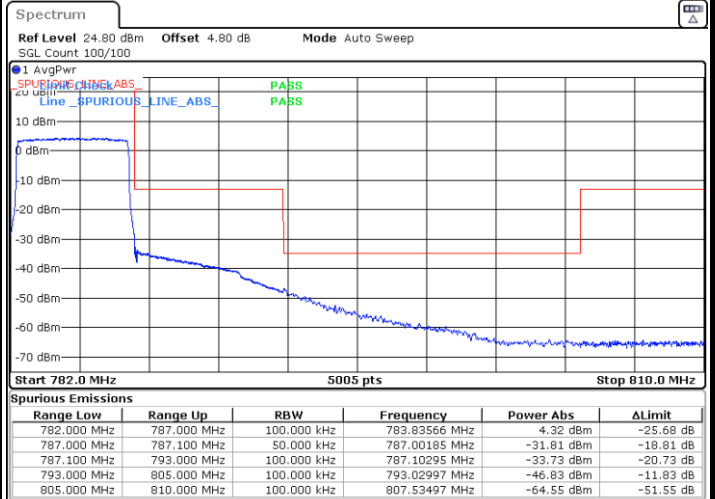
Date: 10.OCT.2023 15:07:03

Lowest Band Edge / Full RB



Date: 10.OCT.2023 15:02:16

Highest Band Edge / Full RB



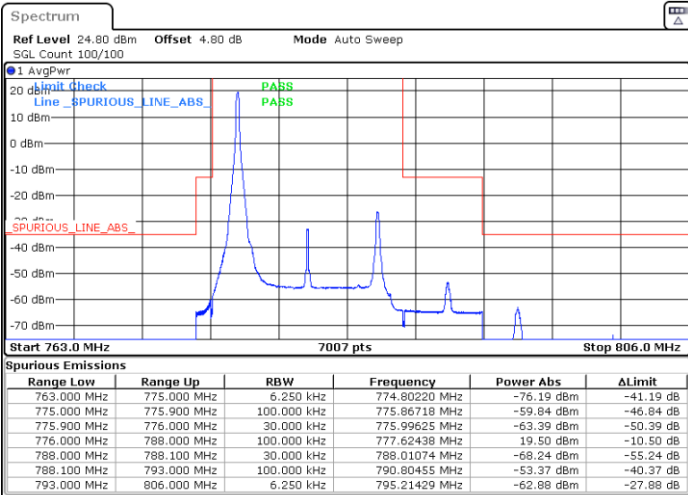
Date: 10.OCT.2023 15:05:19



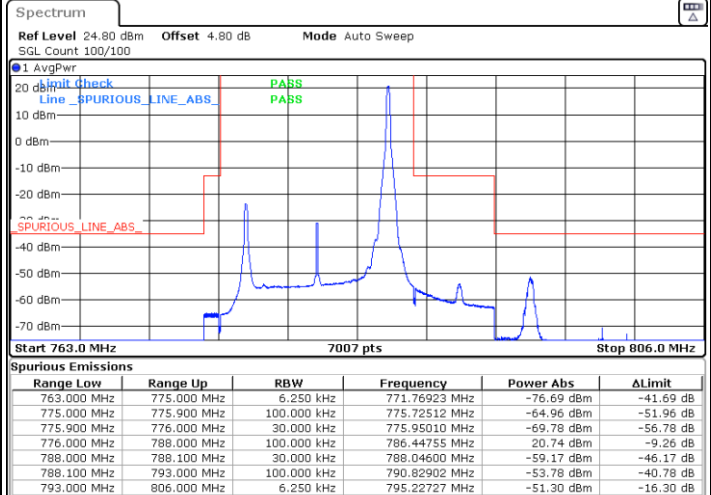
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

middle Band Edge / 1 RB

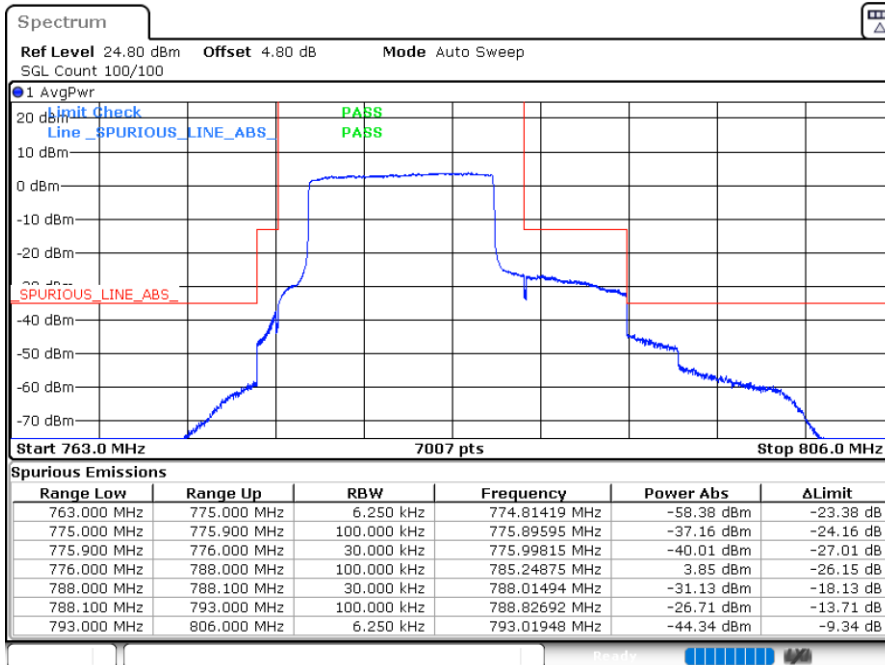


Date: 10.OCT.2023 14:41:42



Date: 10.OCT.2023 14:50:51

Middle Band Edge / Full RB



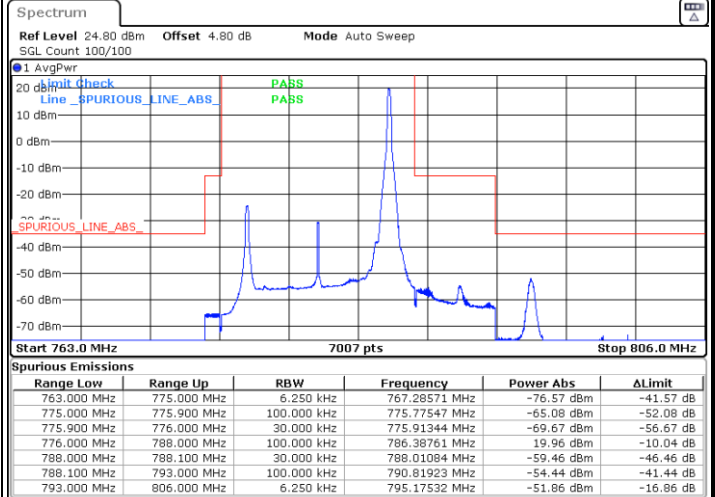
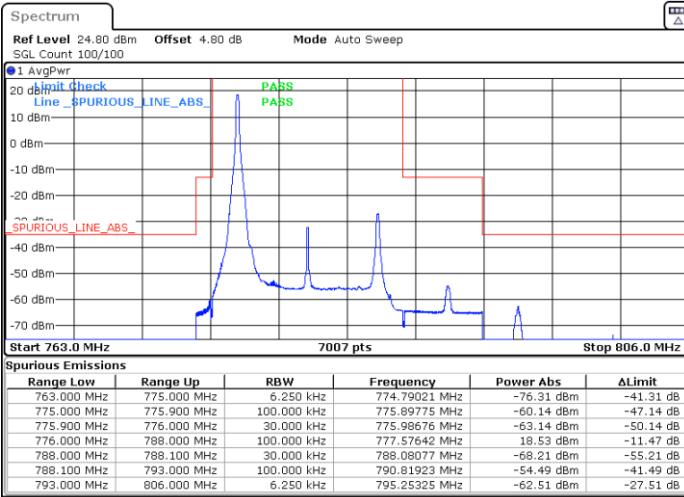
Date: 10.OCT.2023 14:52:41



LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB

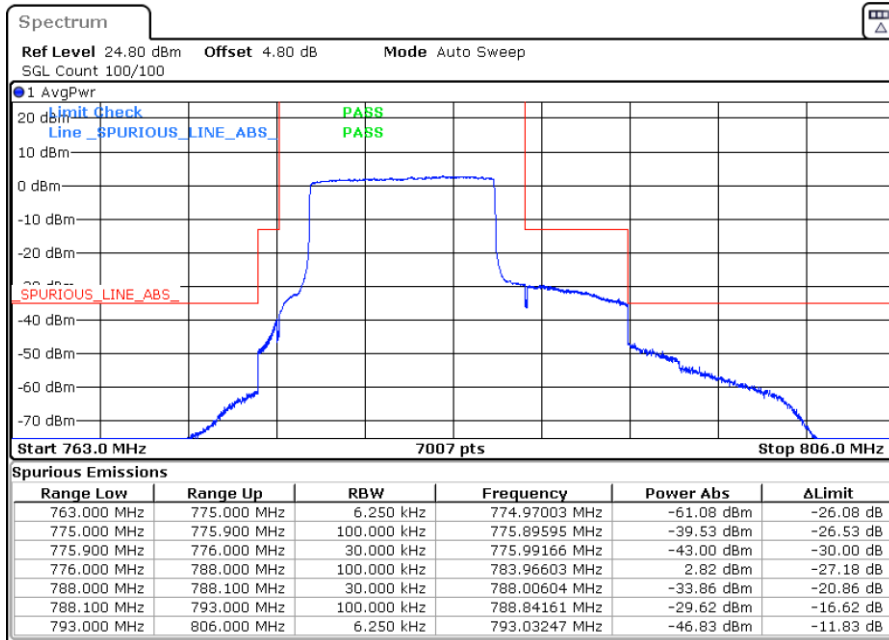
middle Band Edge / 1 RB



Date: 10.OCT.2023 14:43:32

Date: 10.OCT.2023 14:49:01

middle Band Edge / Full RB



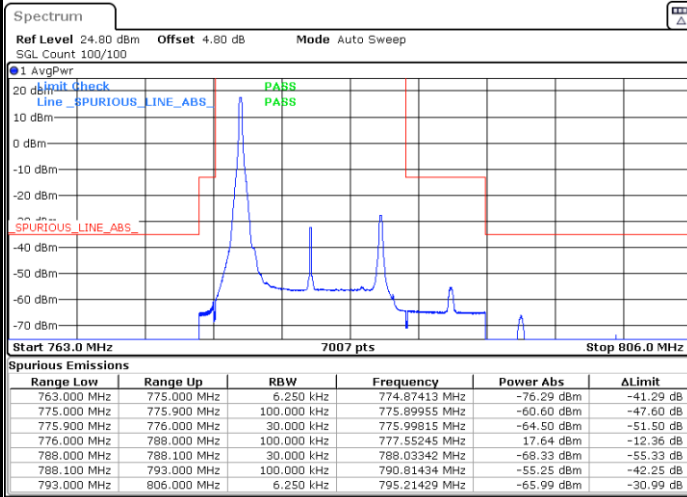
Date: 10.OCT.2023 14:54:30





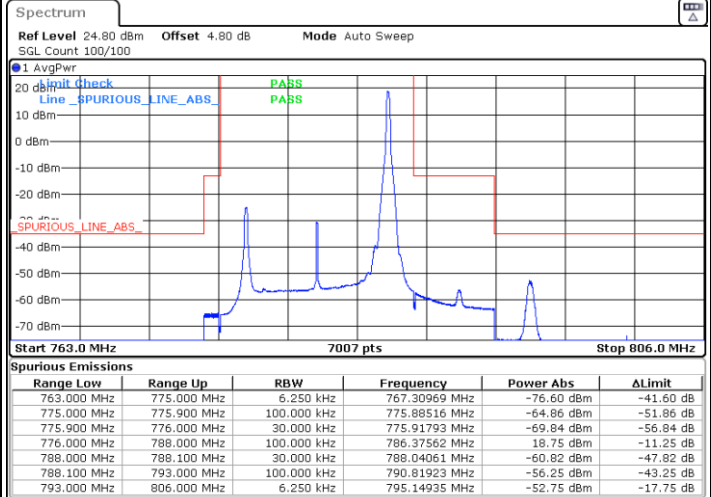
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



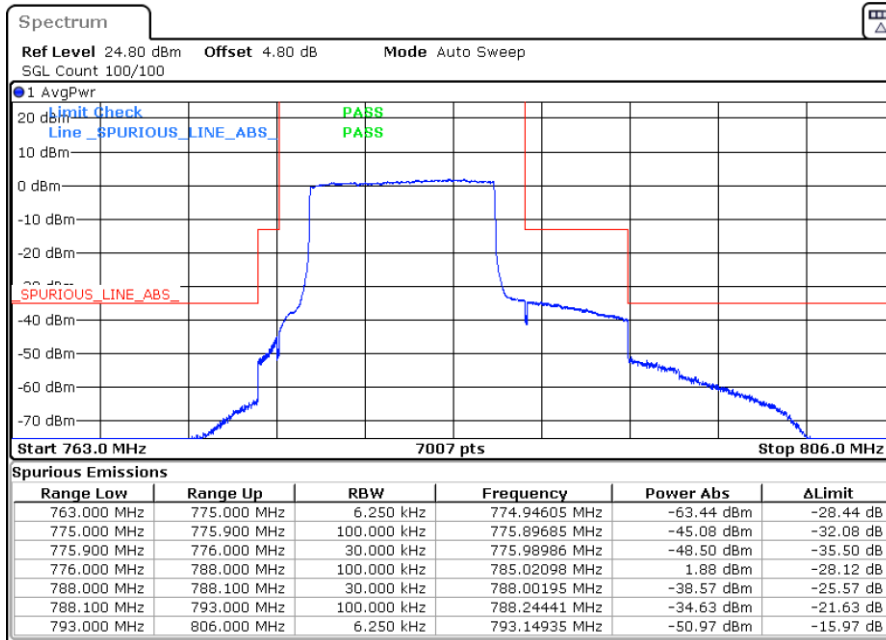
Date: 10.OCT.2023 14:45:21

middle Band Edge / 1 RB



Date: 10.OCT.2023 14:47:11

middle Band Edge / Full RB



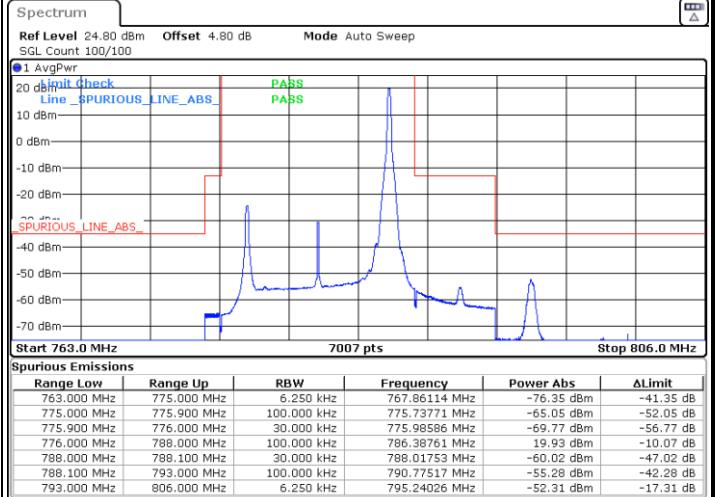
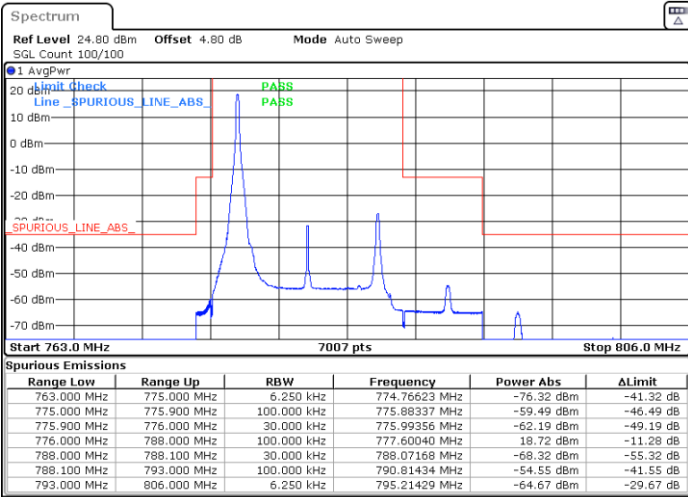
Date: 10.OCT.2023 14:56:20



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

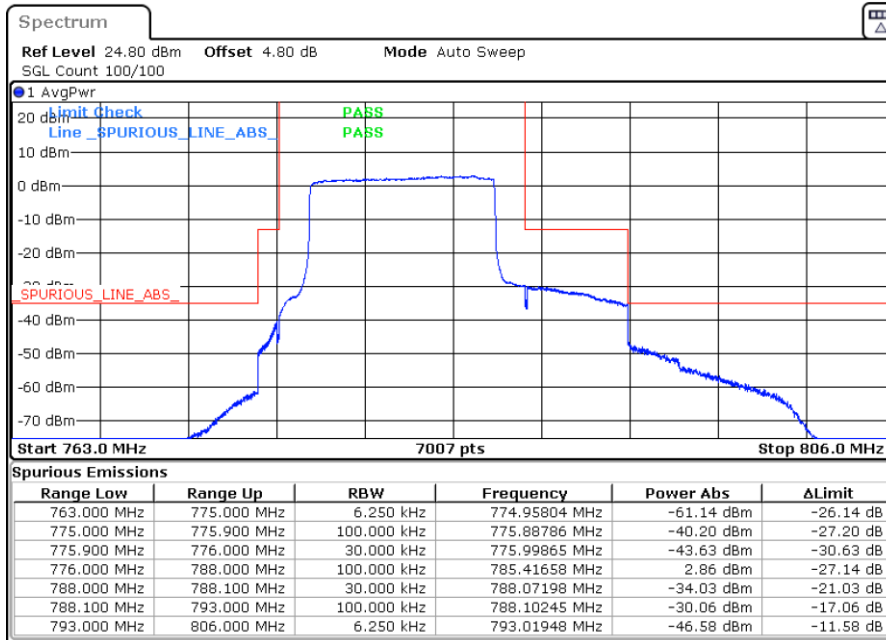
middle Band Edge / 1 RB



Date: 10.OCT.2023 15:13:23

Date: 10.OCT.2023 15:10:21

middle Band Edge / Full RB



Date: 10.OCT.2023 15:15:00

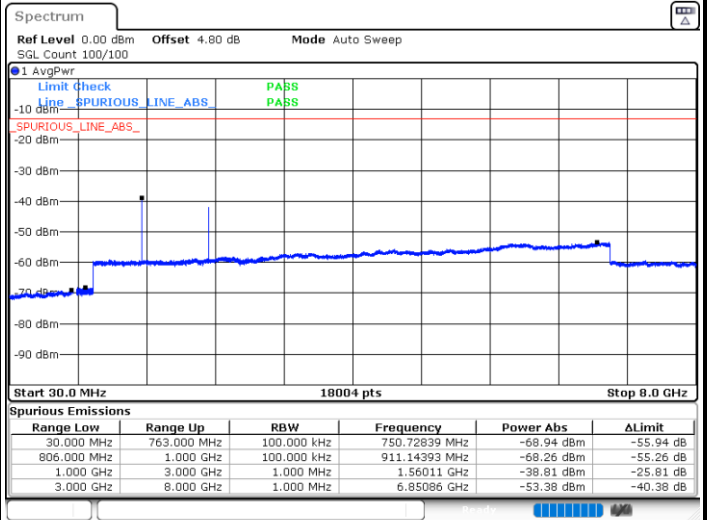
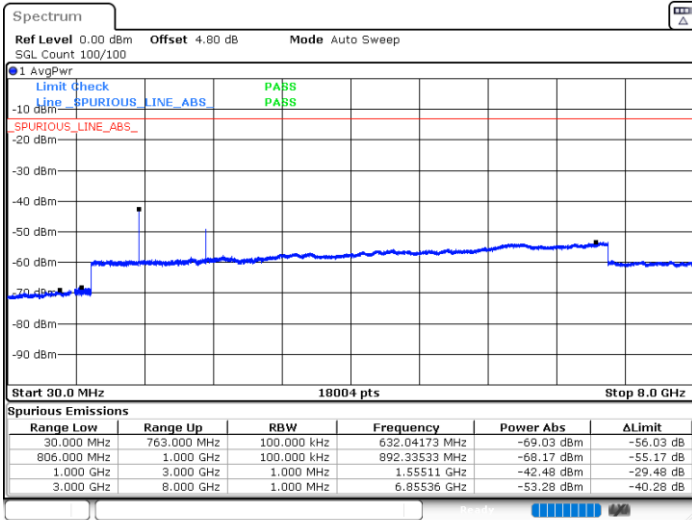


# Conducted Spurious Emission

## LTE Band 13 / 5MHz

### Lowest Channel / QPSK

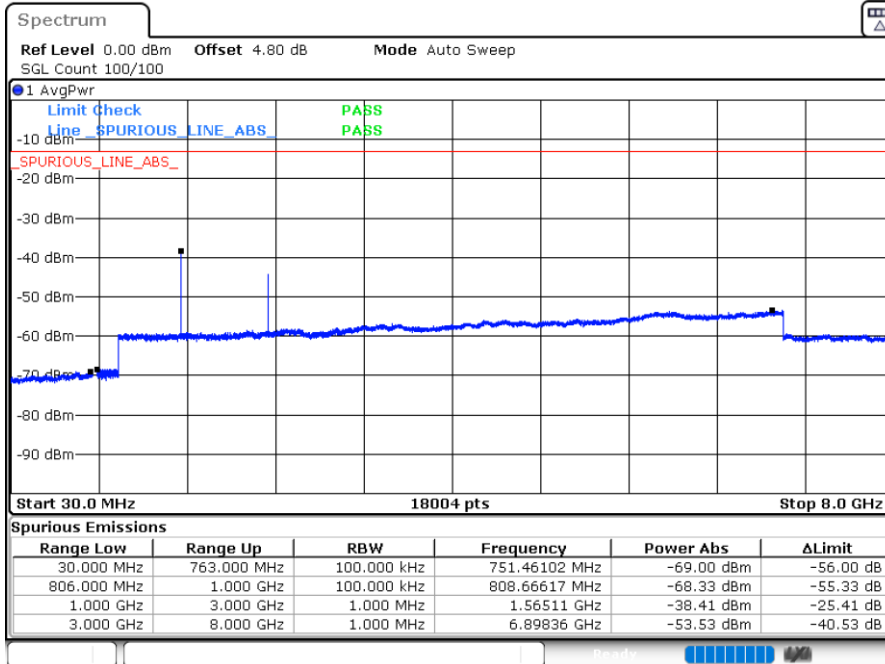
### Middle Channel / QPSK



Date: 10.OCT.2023 14:11:27

Date: 10.OCT.2023 14:26:07

### Highest Channel / QPSK

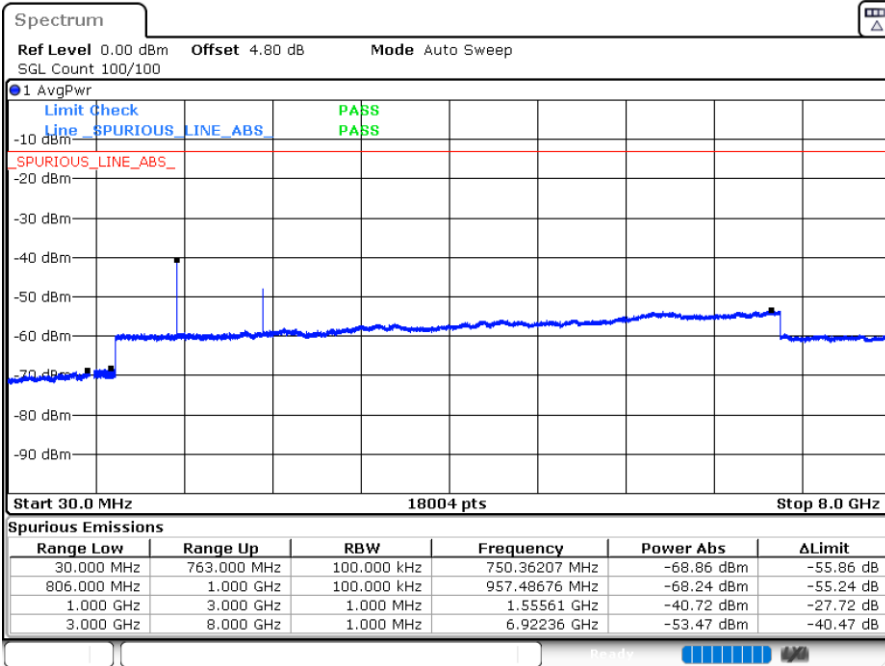


Date: 10.OCT.2023 14:27:27



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 10.OCT.2023 14:39:52



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0059	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0078	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0008	

Note:

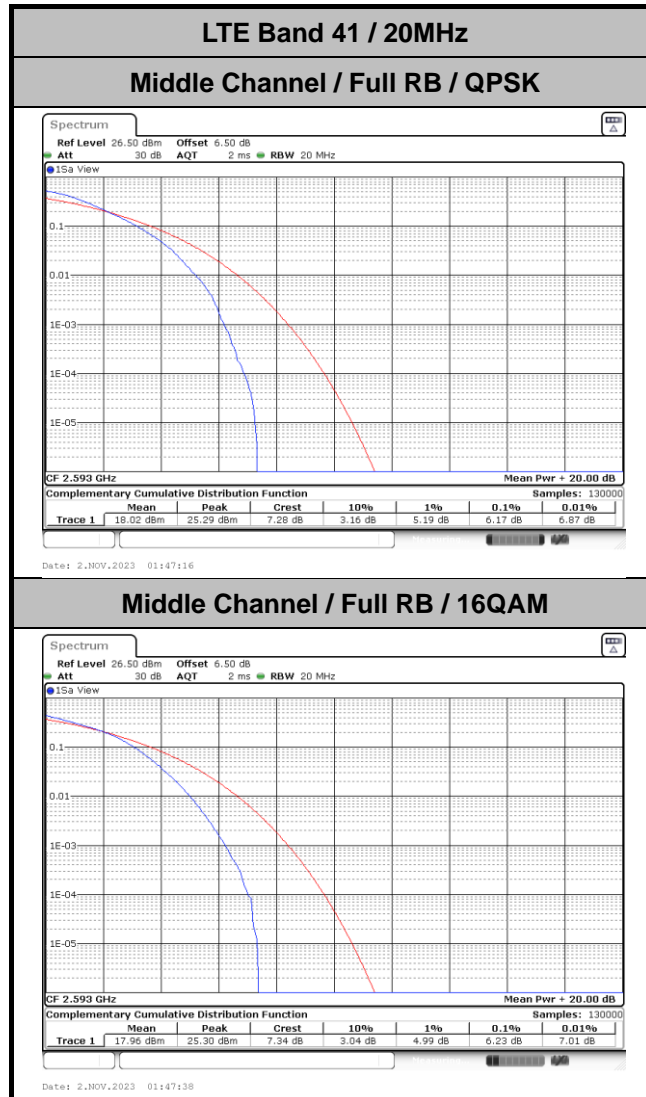
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

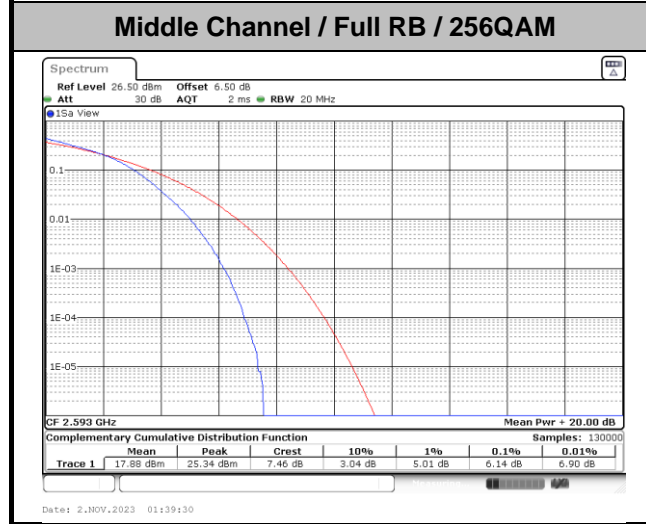
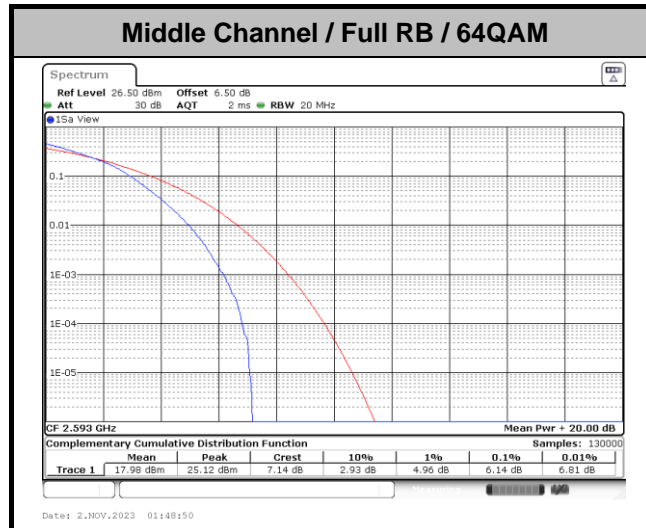


# LTE Band 41

## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.17	6.23	6.14	6.14	PASS

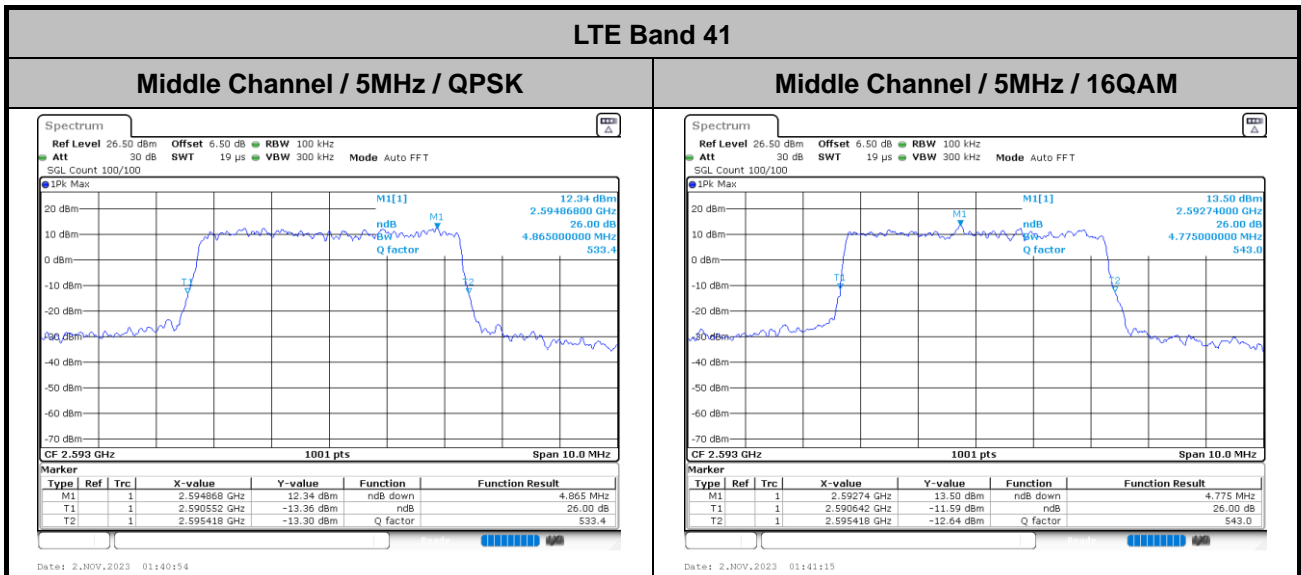






## 26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.87	4.78
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.89	9.71
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	14.39	14.45
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	19.14	18.90

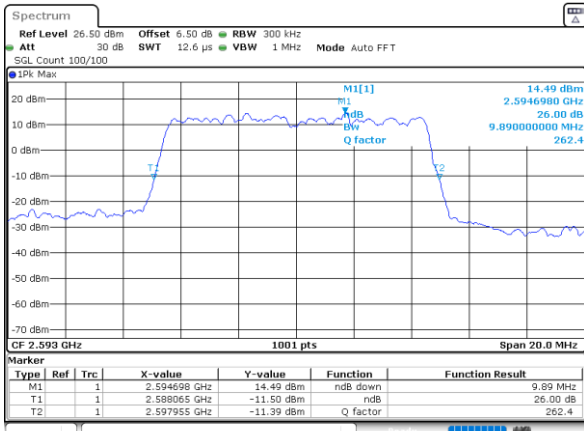






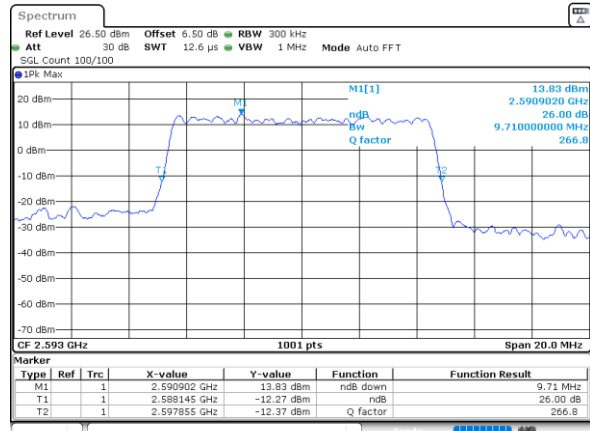
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 2.NOV.2023 01:42:19

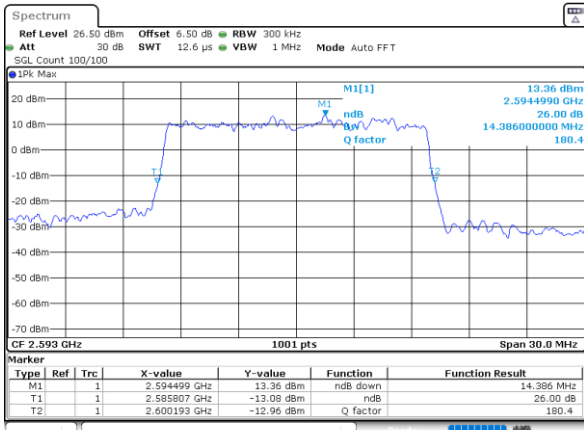
Middle Channel / 10MHz / 16QAM



Date: 2.NOV.2023 01:42:40

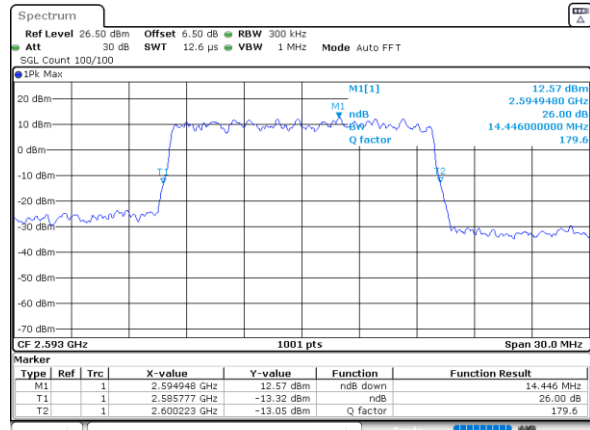
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 2.NOV.2023 01:43:43

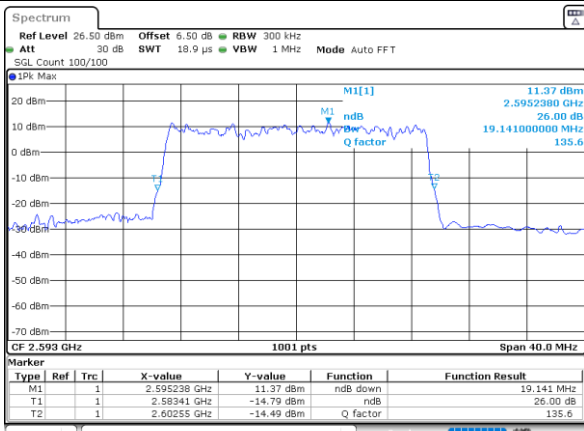
Middle Channel / 15MHz / 16QAM



Date: 2.NOV.2023 01:44:04

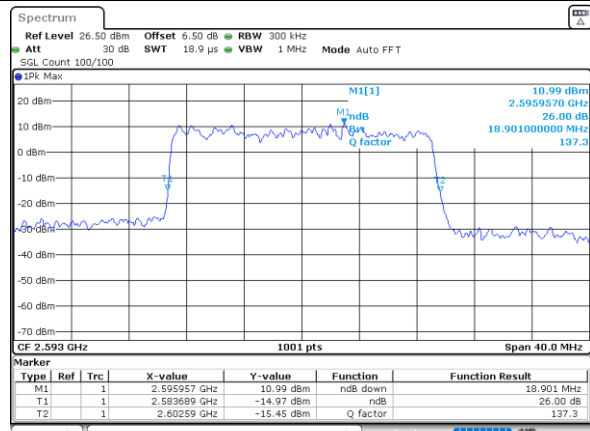
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 2.NOV.2023 01:46:11

Middle Channel / 20MHz / 16QAM

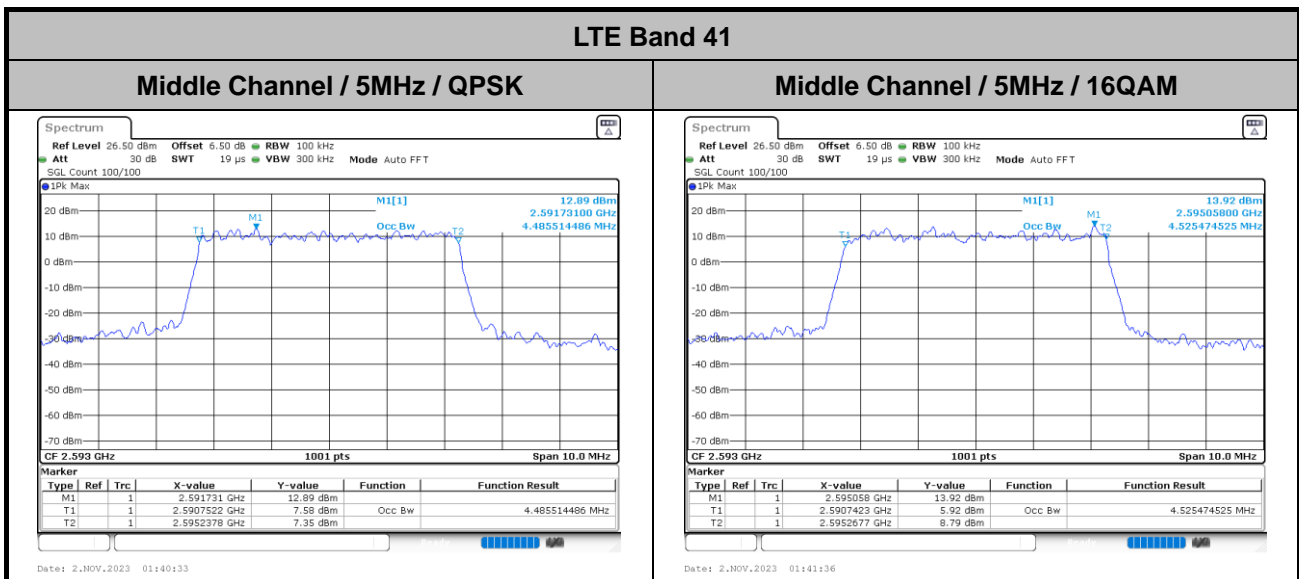


Date: 2.NOV.2023 01:46:32



# Occupied Bandwidth

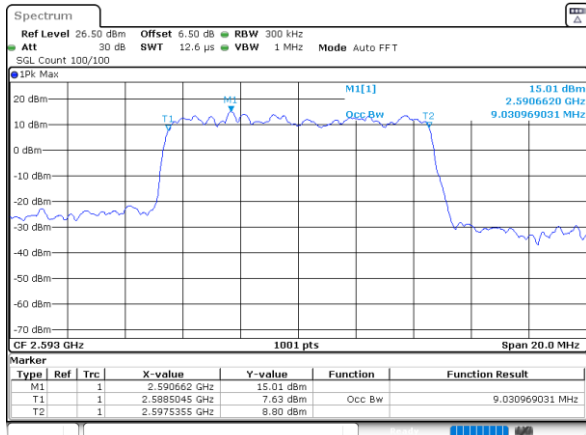
Mode	LTE Band 41 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.49	4.53
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.03	8.95
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.43	13.46
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.90	17.82





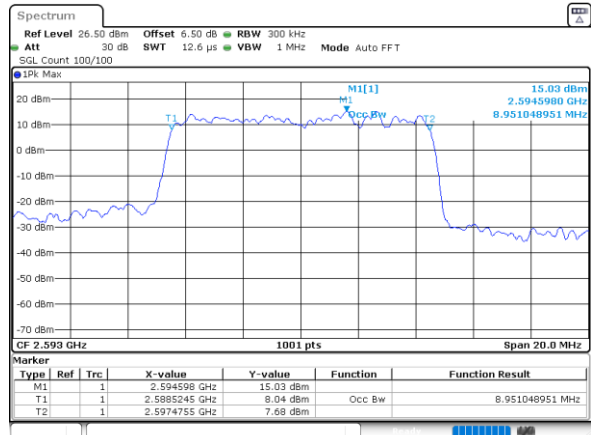
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 2.NOV.2023 01:41:58

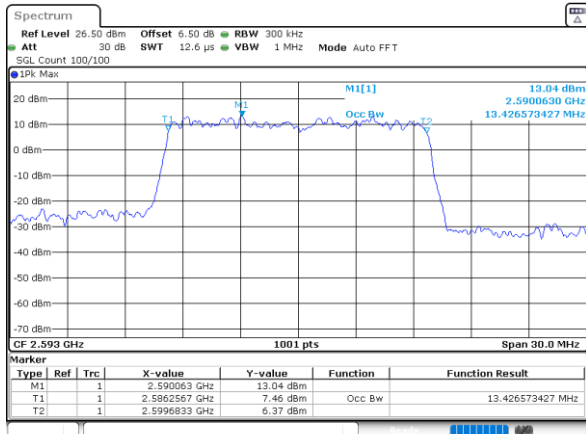
Middle Channel / 10MHz / 16QAM



Date: 2.NOV.2023 01:43:01

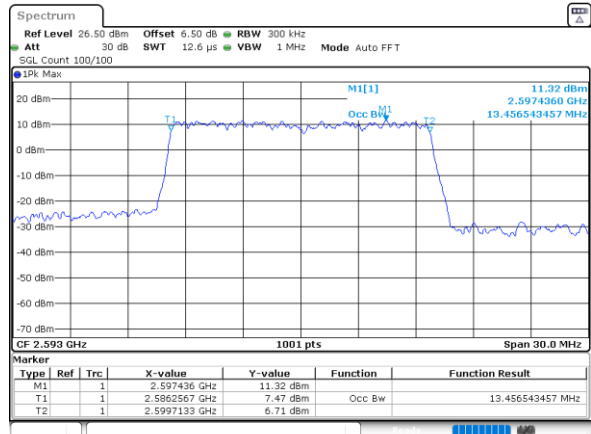
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 2.NOV.2023 01:43:22

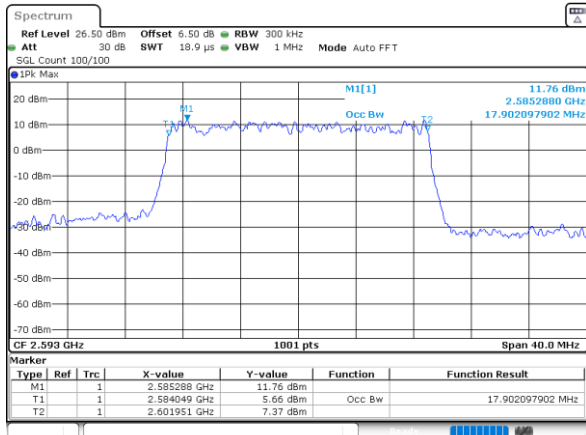
Middle Channel / 15MHz / 16QAM



Date: 2.NOV.2023 01:45:29

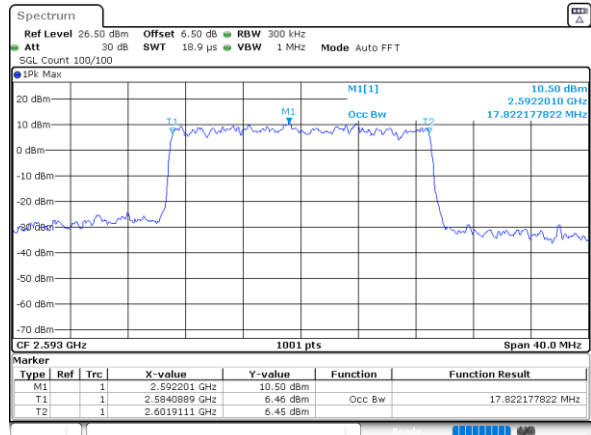
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 2.NOV.2023 01:45:51

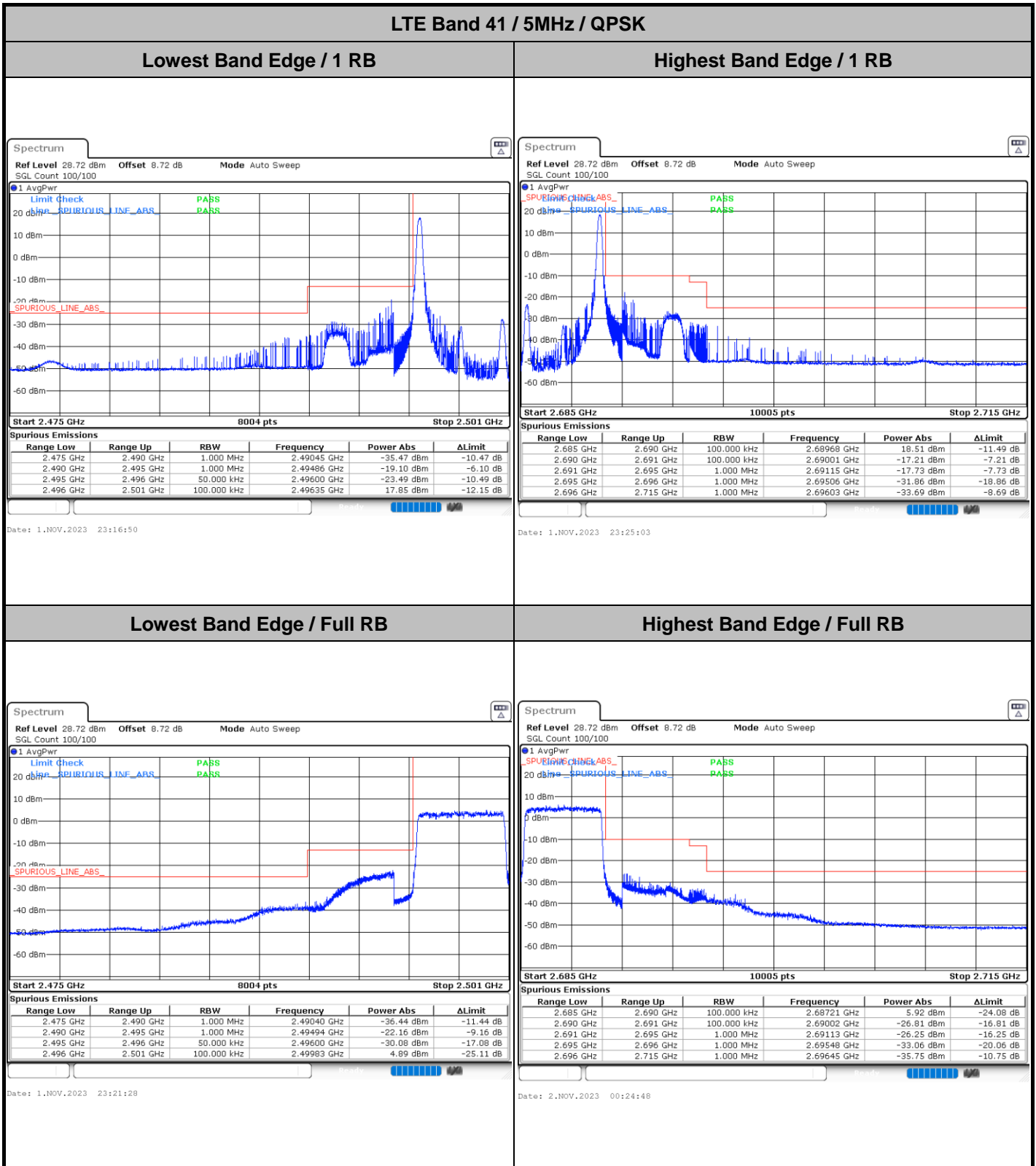
Middle Channel / 20MHz / 16QAM



Date: 2.NOV.2023 01:46:53



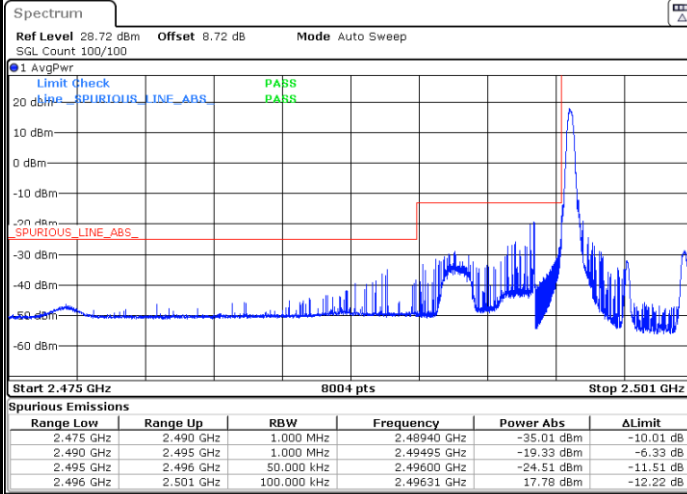
# Conducted Band Edge





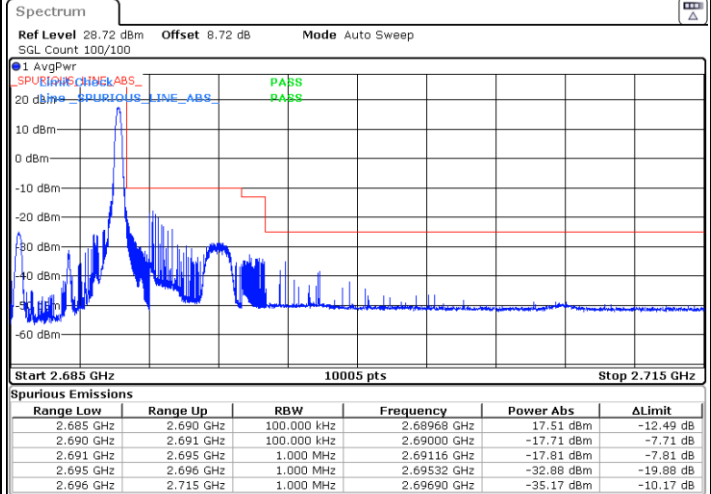
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



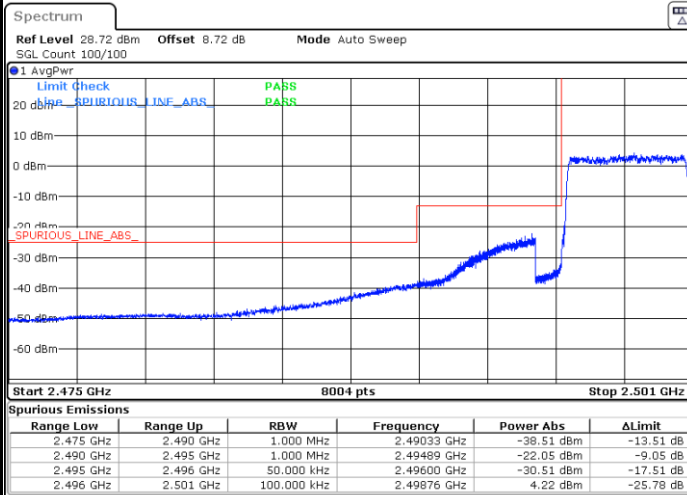
Date: 1.NOV.2023 23:17:45

Highest Band Edge / 1 RB



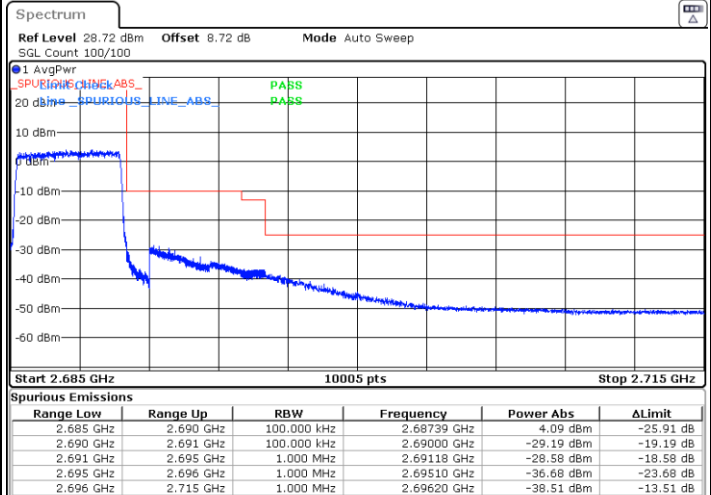
Date: 1.NOV.2023 23:25:58

Lowest Band Edge / Full RB



Date: 1.NOV.2023 23:20:32

Highest Band Edge / Full RB

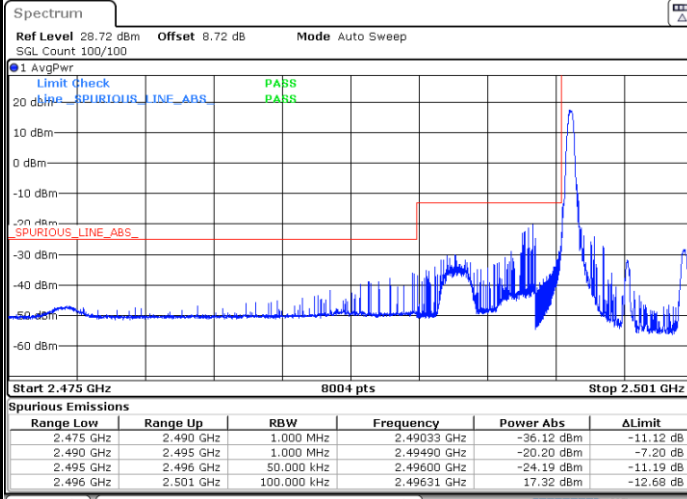


Date: 2.NOV.2023 00:24:03



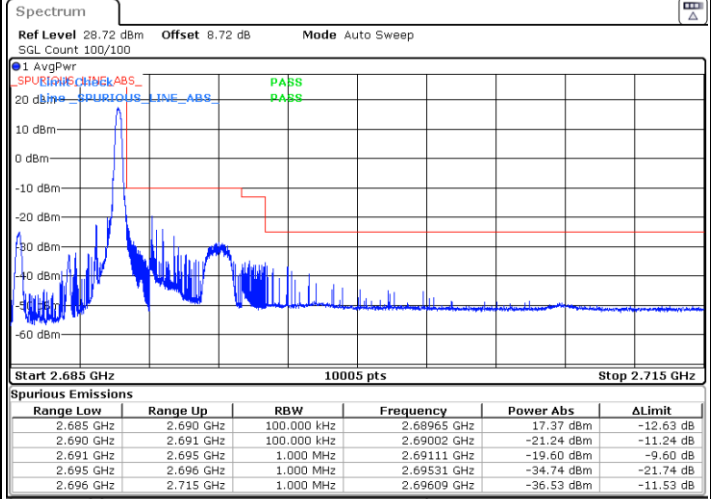
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



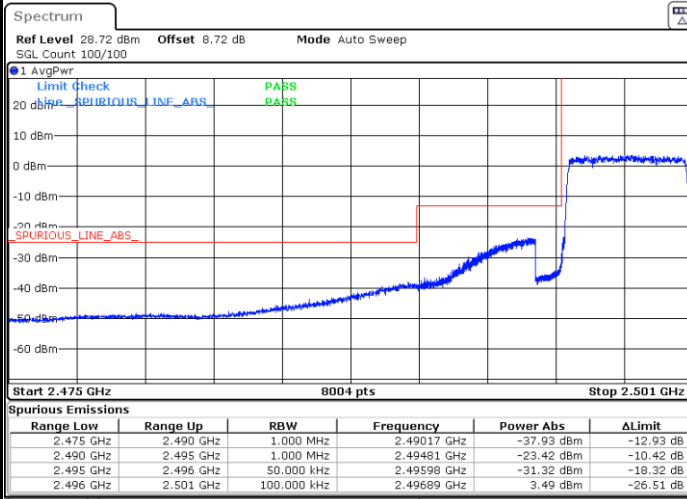
Date: 1.NOV.2023 23:18:41

Highest Band Edge / 1 RB



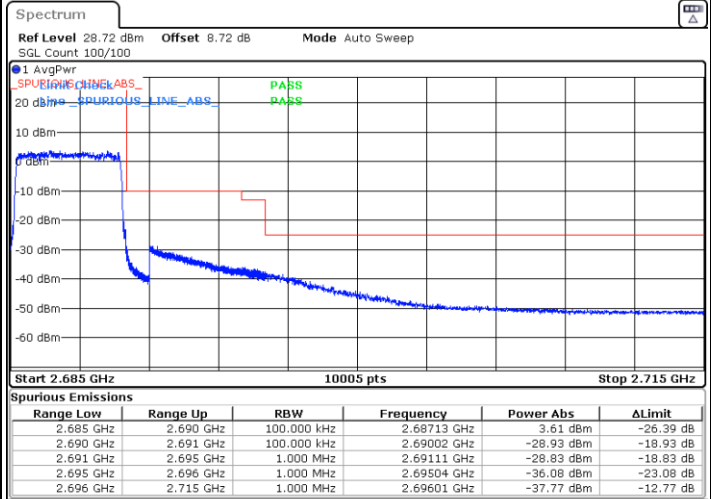
Date: 1.NOV.2023 23:26:53

Lowest Band Edge / Full RB



Date: 1.NOV.2023 23:19:37

Highest Band Edge / Full RB

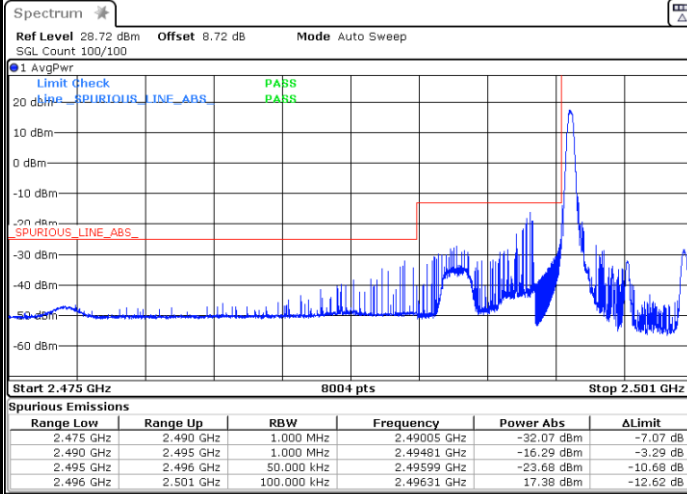


Date: 2.NOV.2023 01:38:25



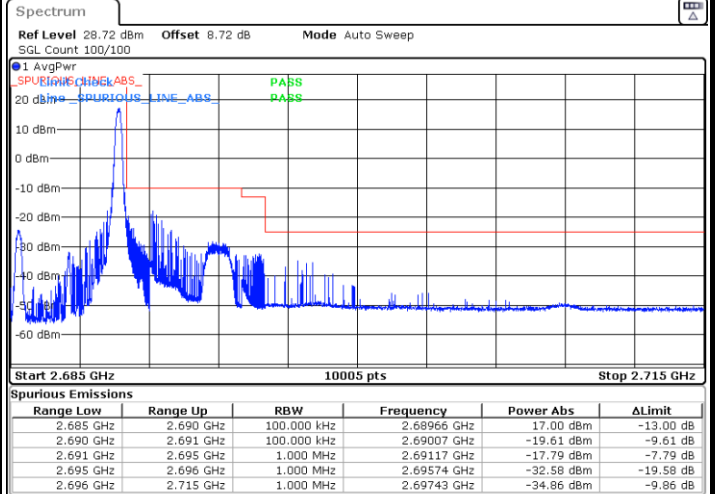
LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1RB



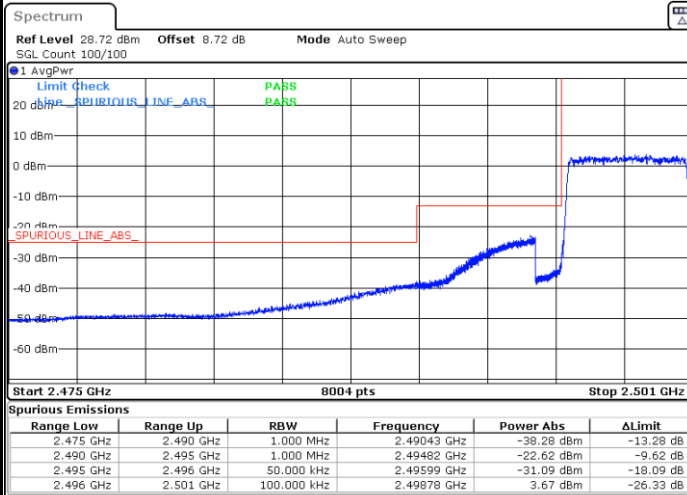
Date: 2.NOV.2023 01:34:29

Highest Band Edge / 1 RB



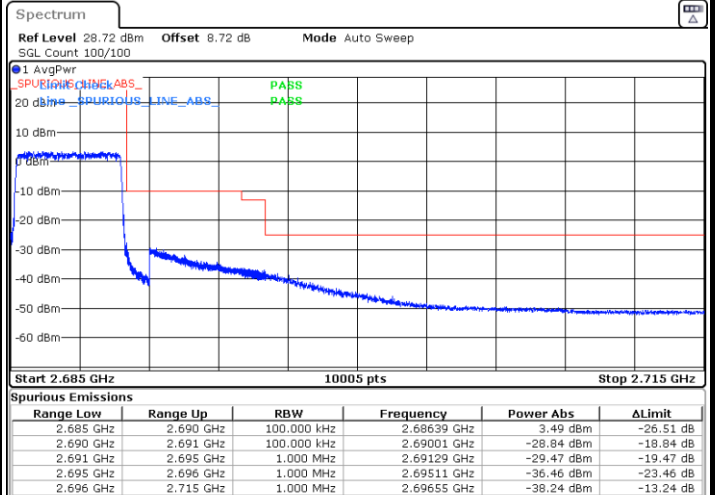
Date: 2.NOV.2023 01:37:13

Lowest Band Edge / Full RB



Date: 2.NOV.2023 01:35:13

Highest Band Edge / Full RB

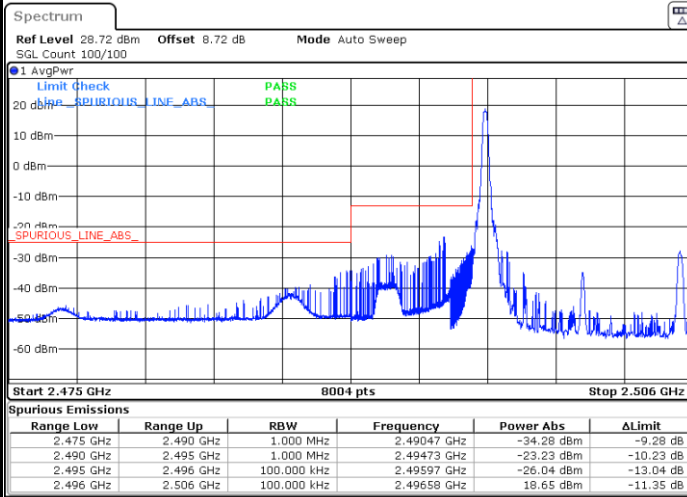


Date: 2.NOV.2023 01:35:51



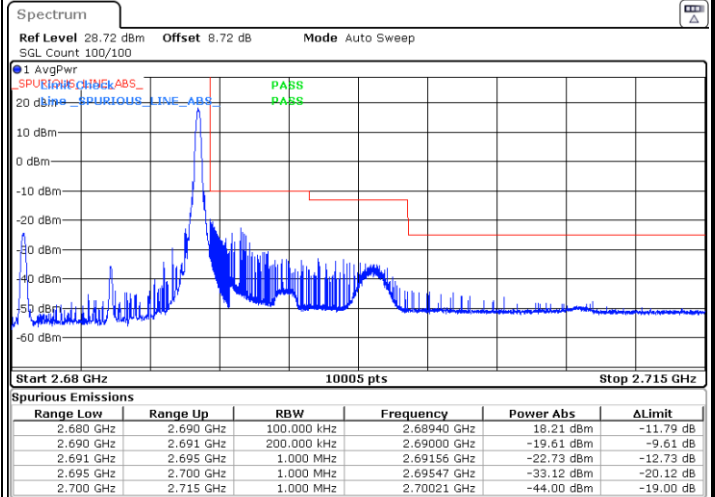
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



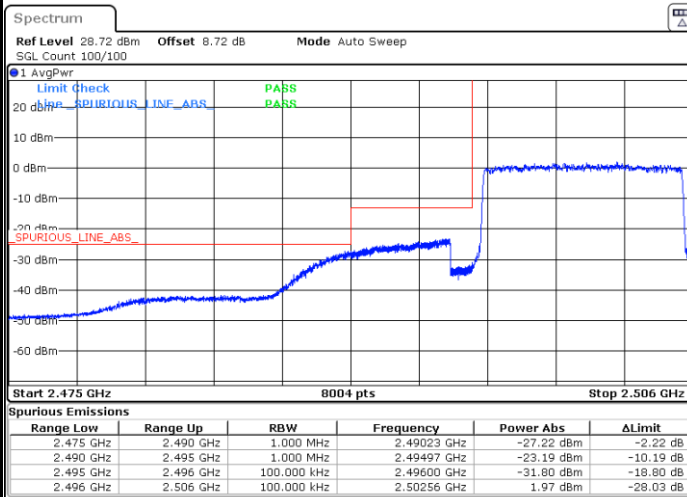
Date: 2.NOV.2023 00:26:55

Highest Band Edge / 1 RB



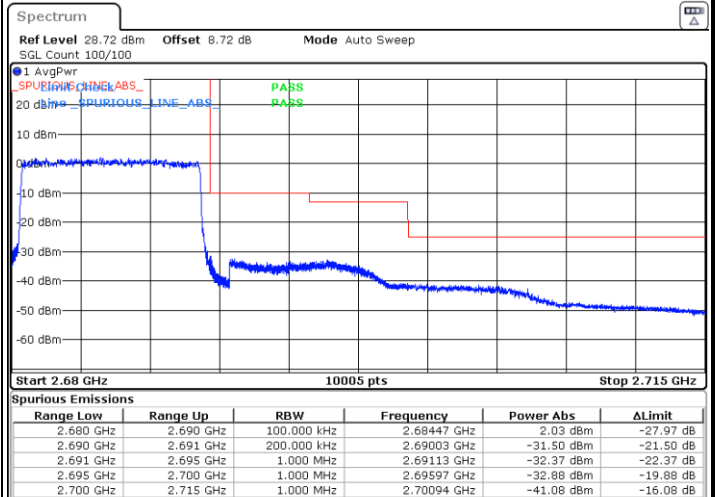
Date: 2.NOV.2023 00:36:08

Lowest Band Edge / Full RB



Date: 2.NOV.2023 00:32:43

Highest Band Edge / Full RB



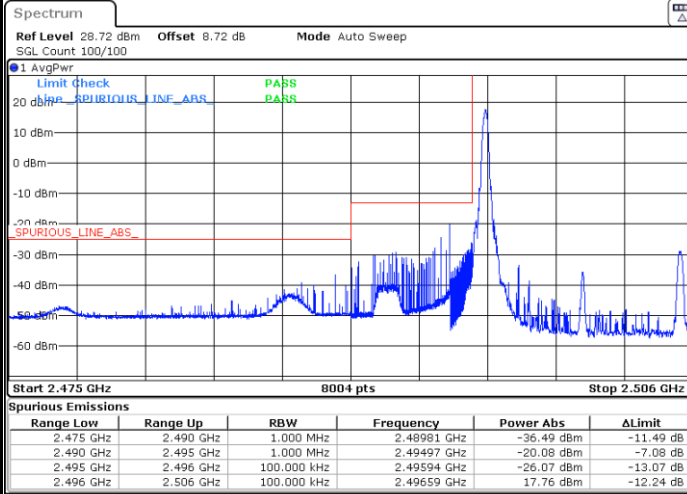
Date: 2.NOV.2023 00:39:54





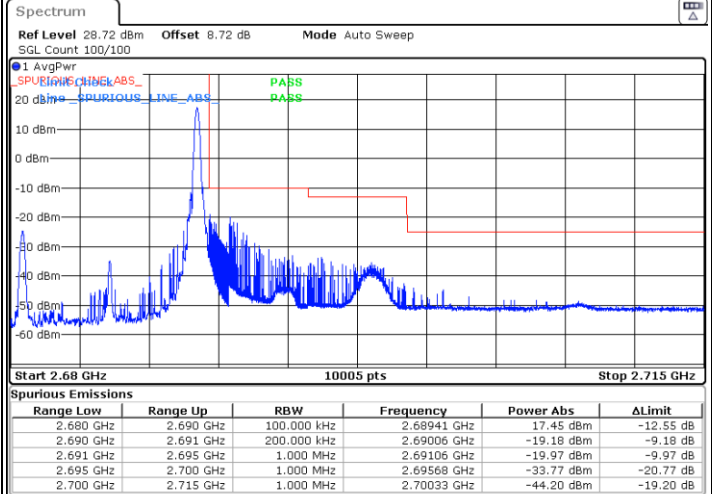
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



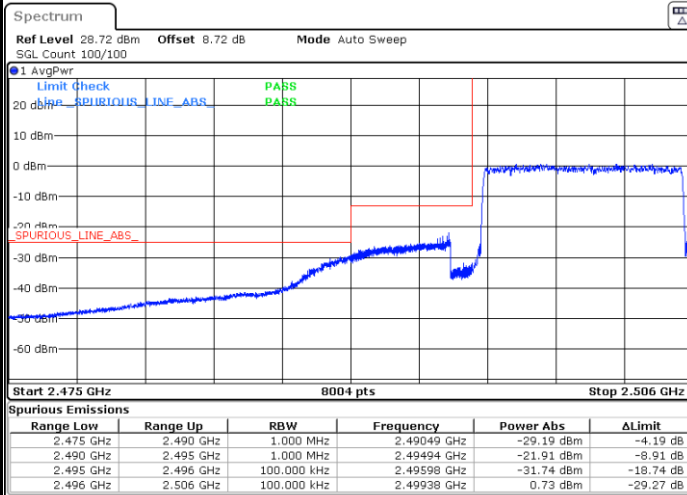
Date: 2.NOV.2023 00:27:40

Highest Band Edge / 1 RB



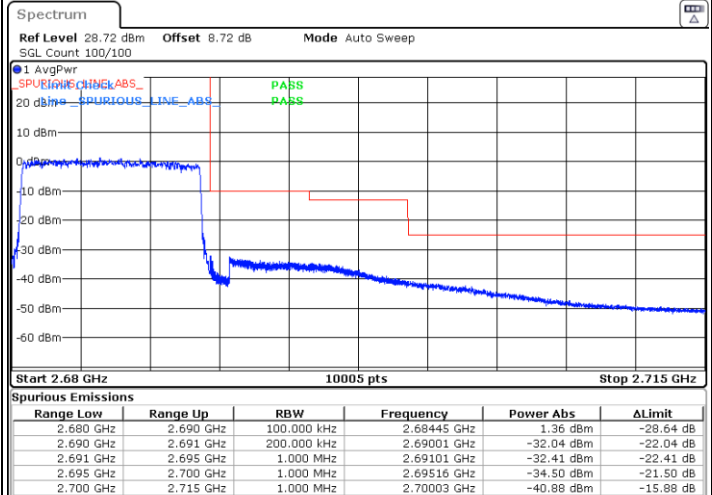
Date: 2.NOV.2023 00:36:53

Lowest Band Edge / Full RB



Date: 2.NOV.2023 00:31:58

Highest Band Edge / Full RB

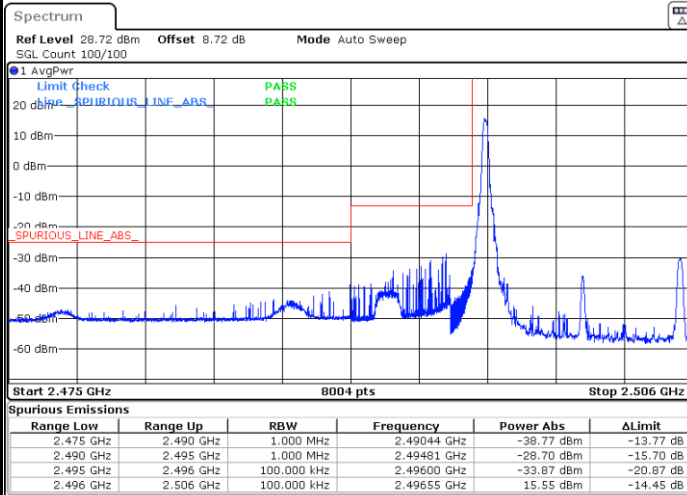


Date: 2.NOV.2023 00:39:09



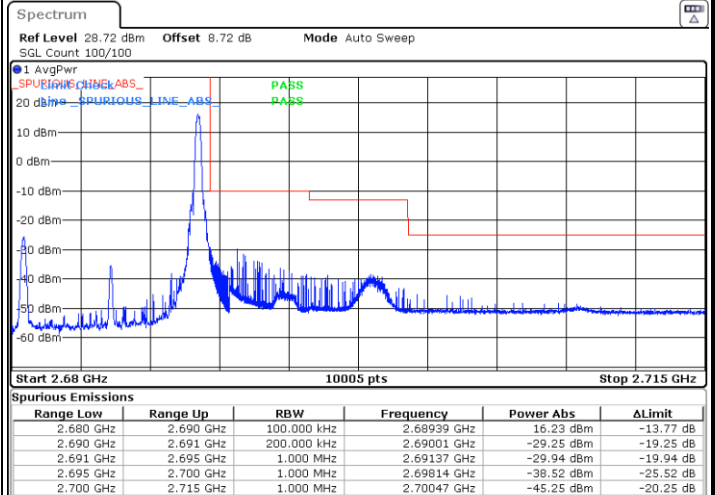
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



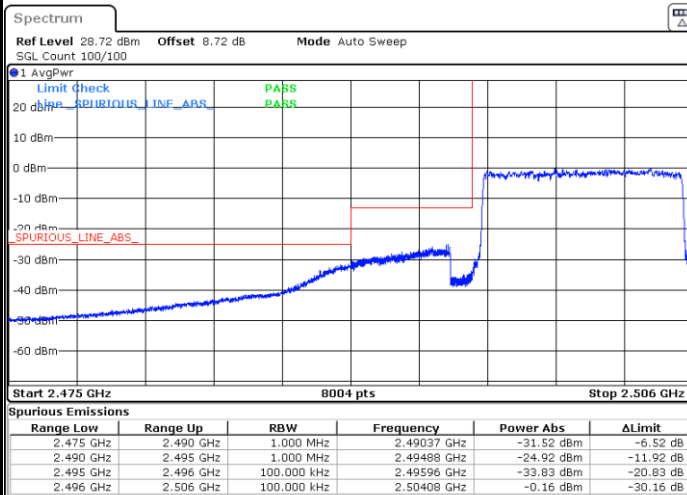
Date: 2.NOV.2023 00:30:27

Highest Band Edge / 1 RB



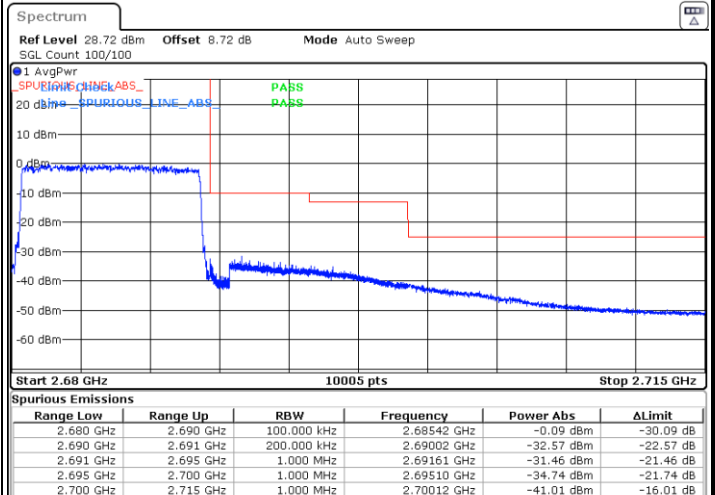
Date: 2.NOV.2023 00:37:39

Lowest Band Edge / Full RB



Date: 2.NOV.2023 00:31:13

Highest Band Edge / Full RB

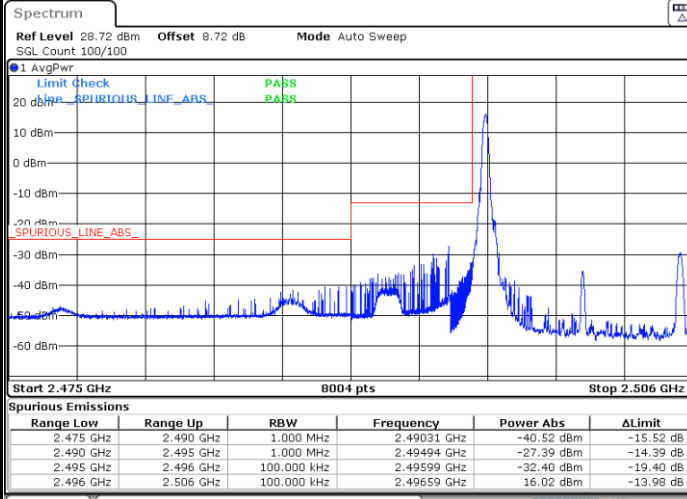


Date: 2.NOV.2023 00:38:24

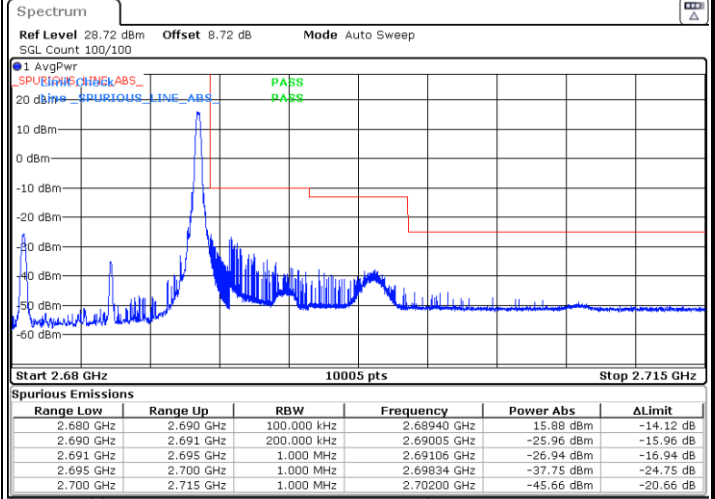


LTE Band 41 / 10MHz / 256QAM

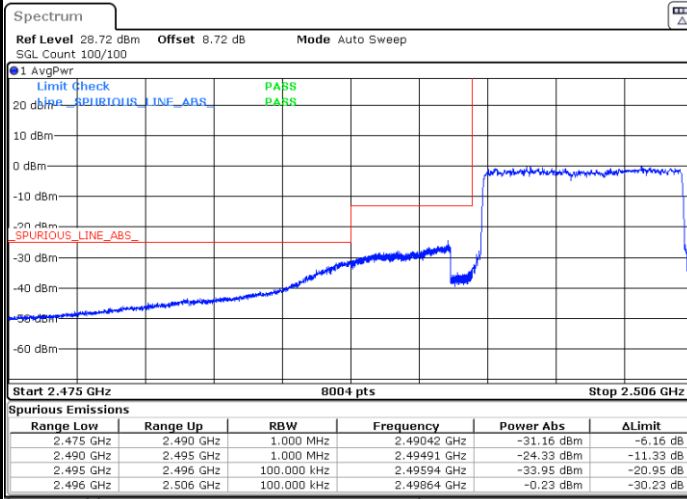
Lowest Band Edge / 1RB



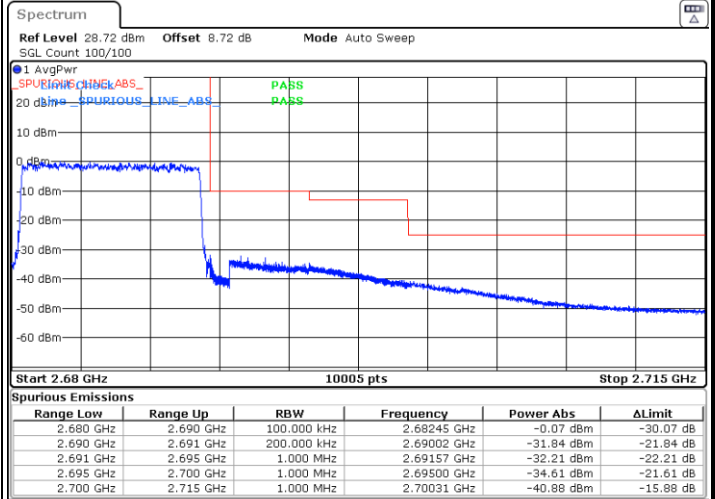
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



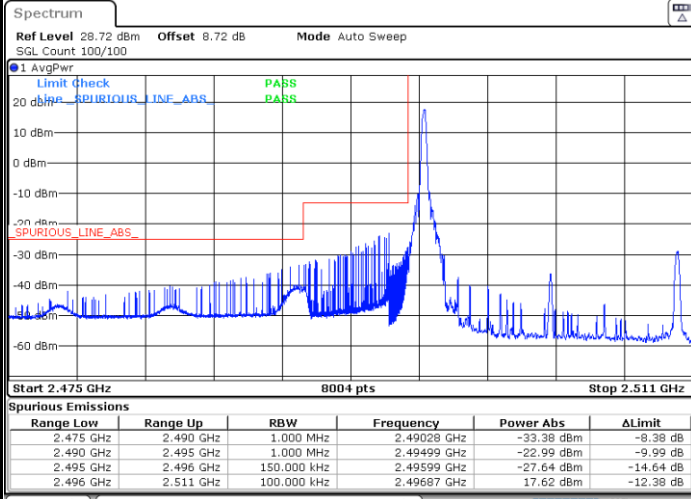
Highest Band Edge / Full RB





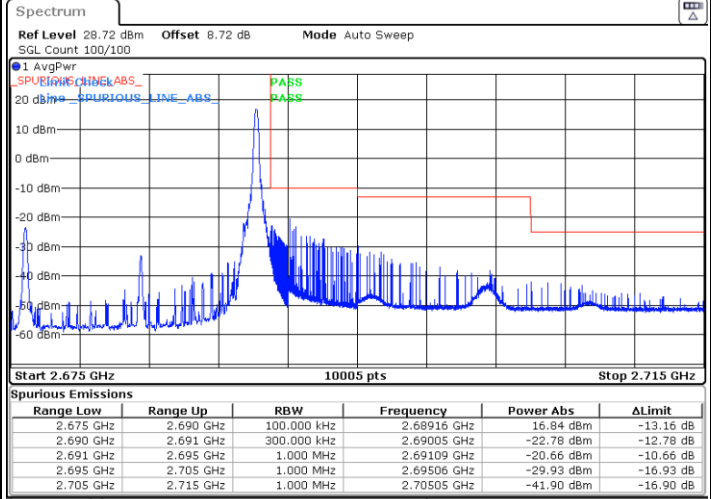
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



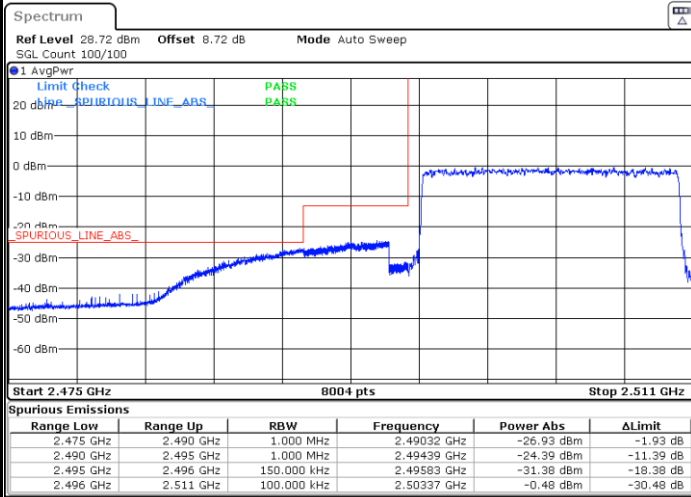
Date: 2.NOV.2023 00:42:01

Highest Band Edge / 1 RB



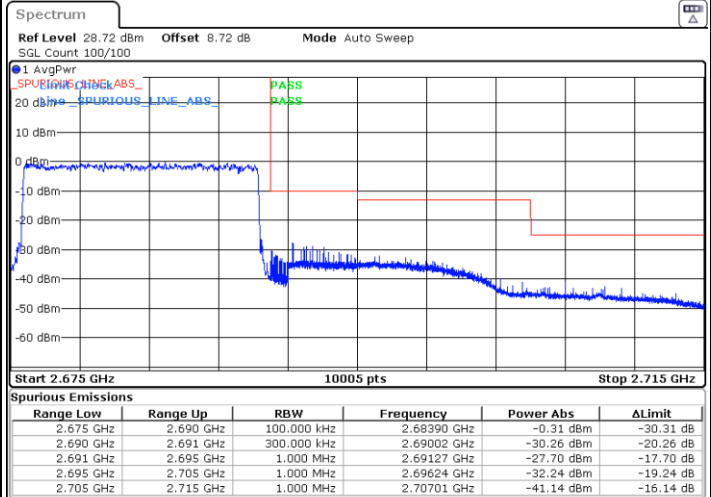
Date: 2.NOV.2023 00:49:14

Lowest Band Edge / Full RB



Date: 2.NOV.2023 00:45:48

Highest Band Edge / Full RB

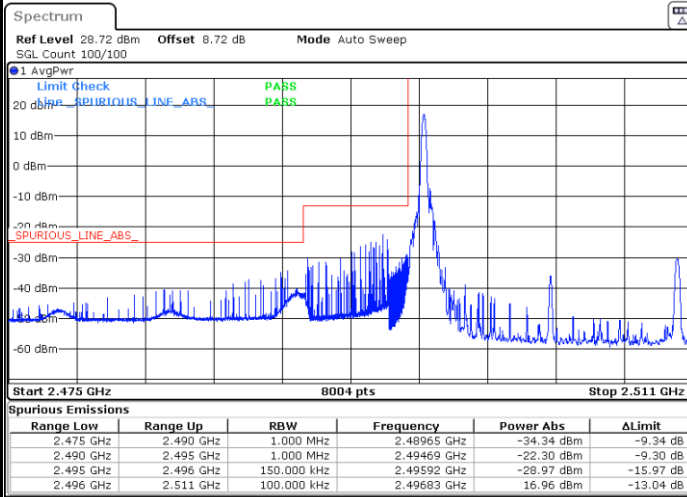


Date: 2.NOV.2023 00:53:00



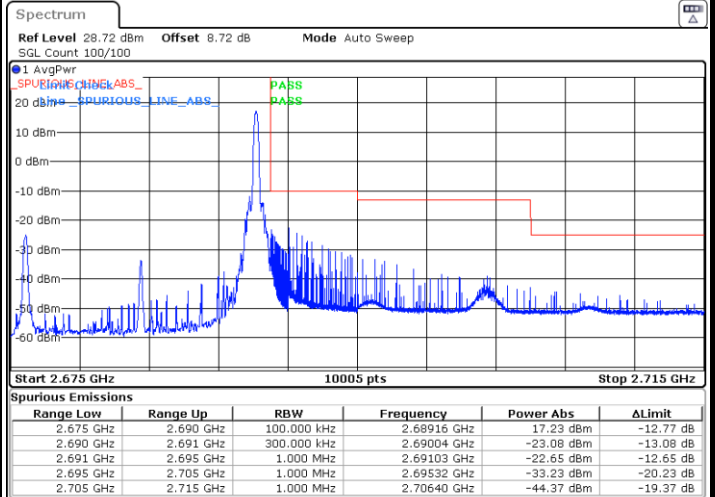
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



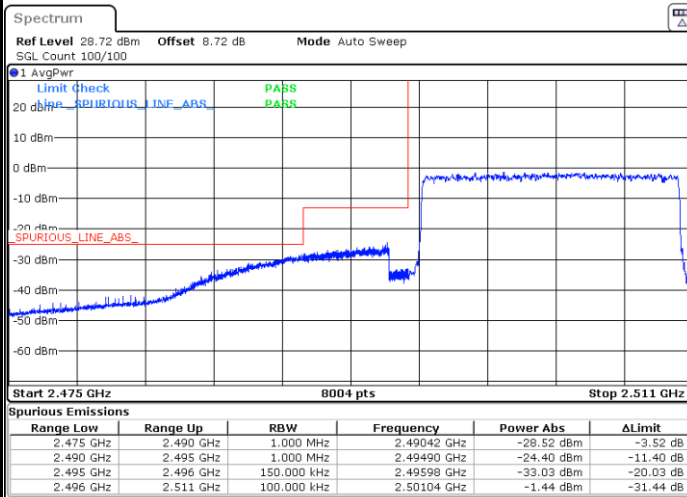
Date: 2.NOV.2023 00:42:46

Highest Band Edge / 1 RB



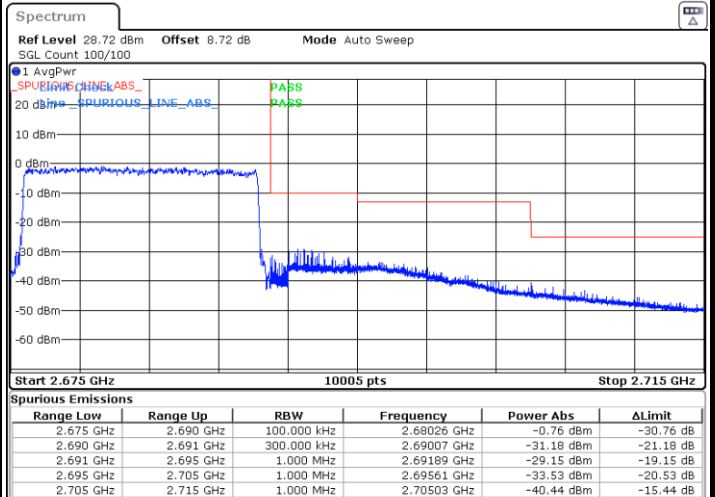
Date: 2.NOV.2023 00:49:59

Lowest Band Edge / Full RB



Date: 2.NOV.2023 00:45:03

Highest Band Edge / Full RB



Date: 2.NOV.2023 00:52:15