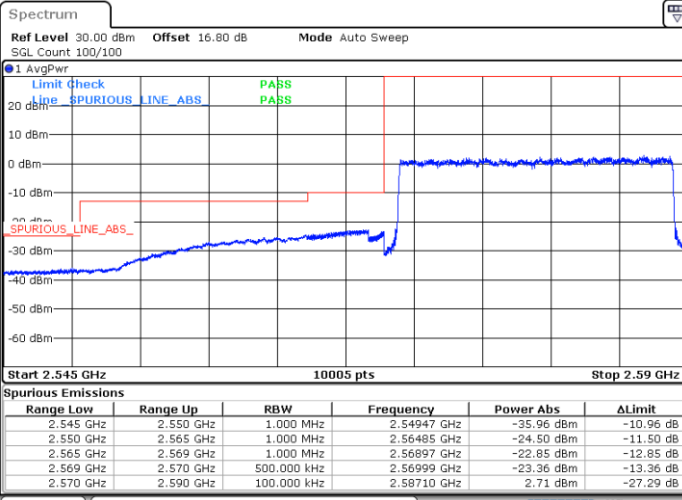




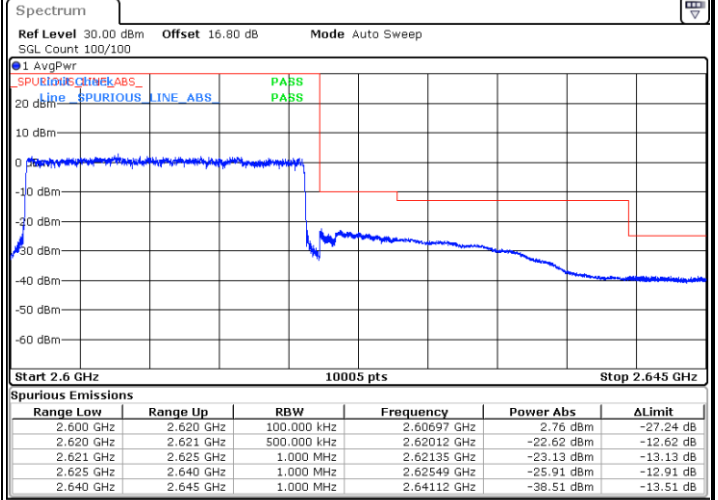
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 1.AUG.2023 16:11:10

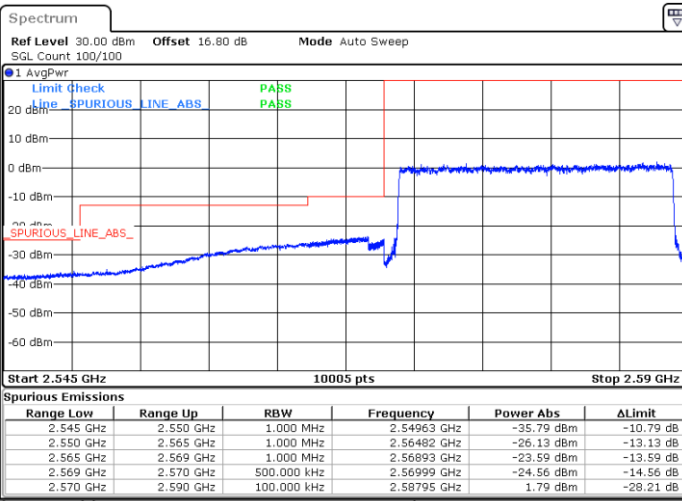
Highest Band Edge / Full RB



Date: 1.AUG.2023 16:13:49

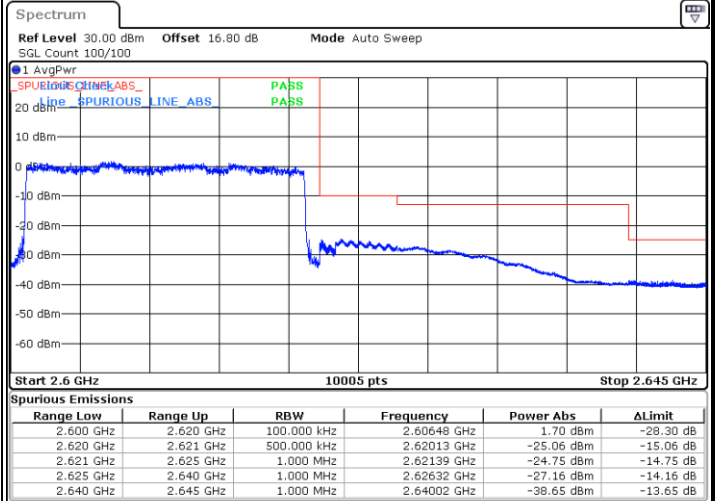
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 16:12:29

Highest Band Edge / Full RB

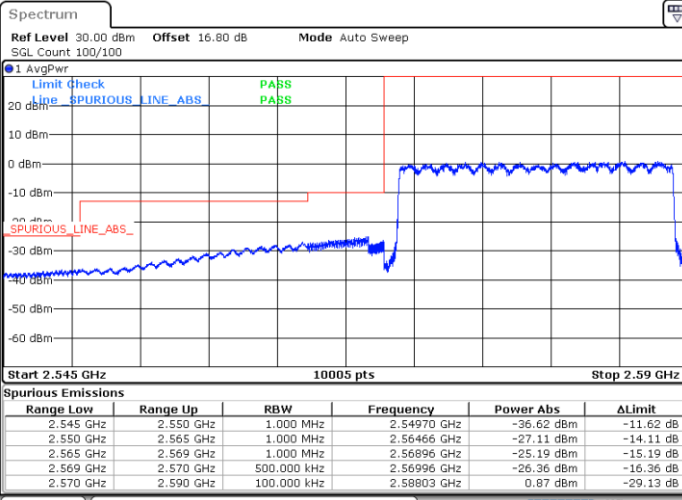


Date: 1.AUG.2023 16:15:09



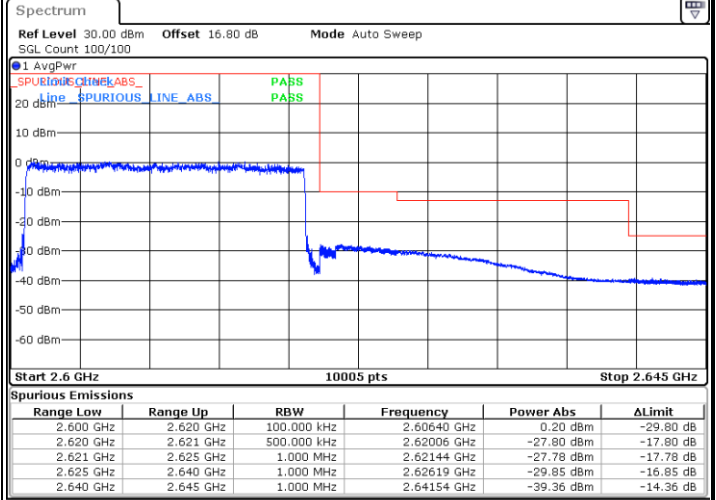
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 16:16:29

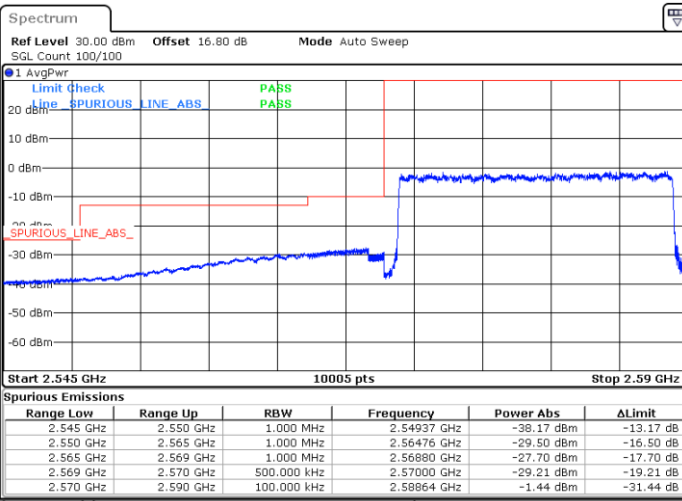
Highest Band Edge / Full RB



Date: 1.AUG.2023 16:17:49

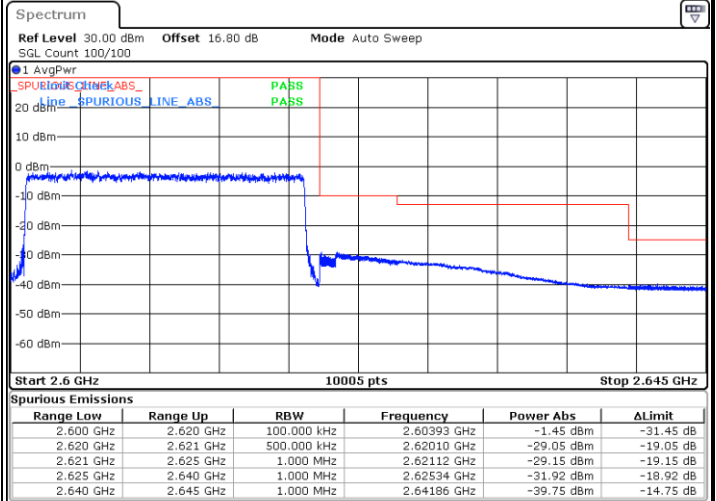
LTE Band 38 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Date: 1.AUG.2023 16:35:21

Highest Band Edge / Full RB



Date: 1.AUG.2023 16:36:44

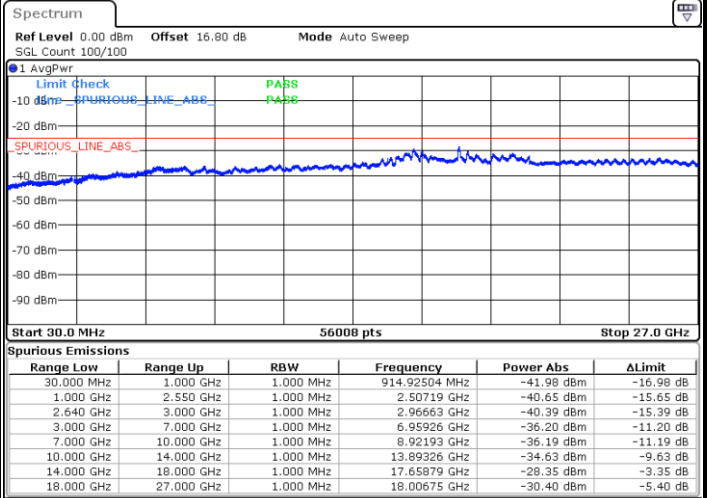
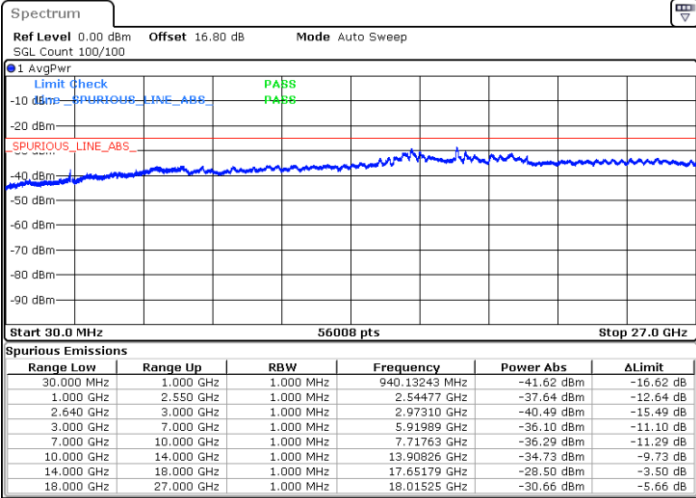


# Conducted Spurious Emission

## LTE Band 38 / 5MHz

### Lowest Channel / QPSK

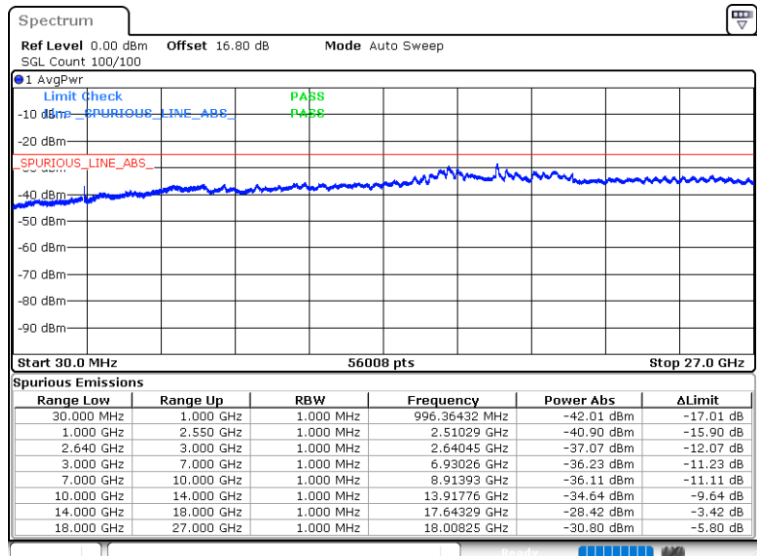
### Middle Channel / QPSK



Date: 1.AUG.2023 16:19:33

Date: 1.AUG.2023 16:21:11

### Highest Channel / QPSK



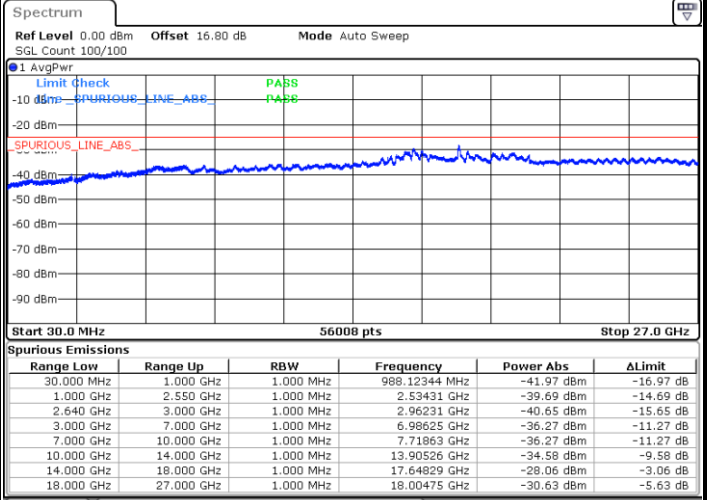
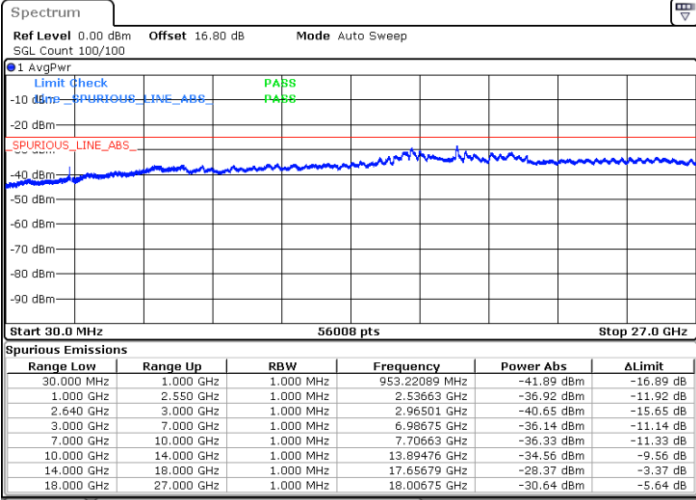
Date: 1.AUG.2023 16:22:51



LTE Band 38 / 10MHz

Lowest Channel / QPSK

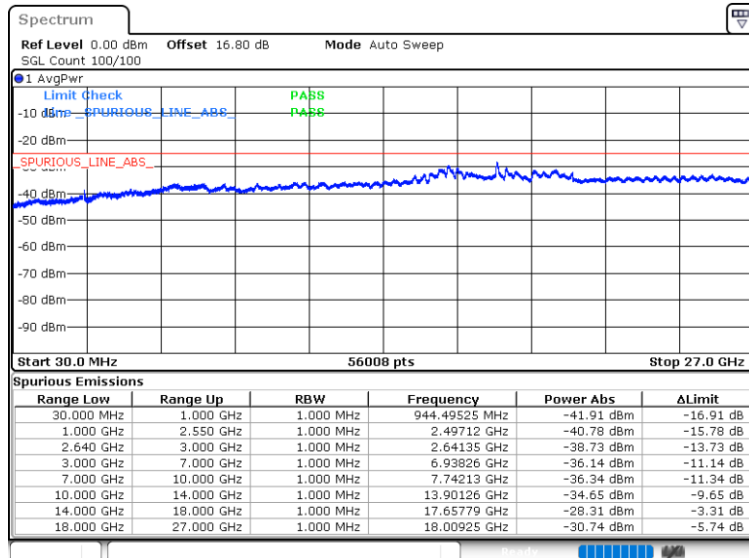
Middle Channel / QPSK



Date: 1.AUG.2023 16:54:38

Date: 1.AUG.2023 16:56:17

Highest Channel / QPSK



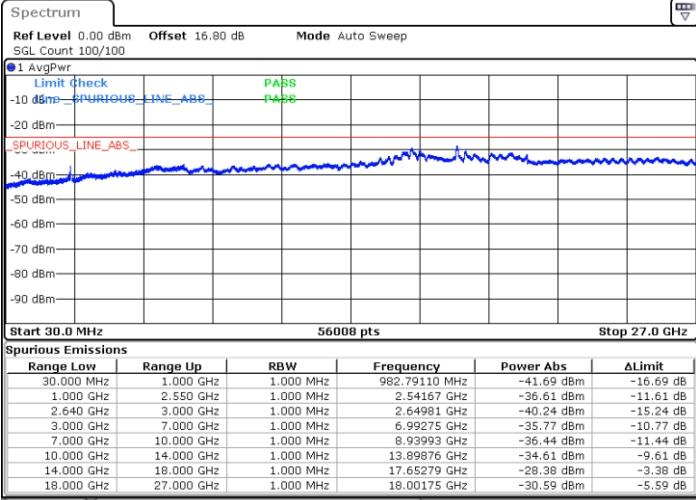
Date: 1.AUG.2023 16:57:57



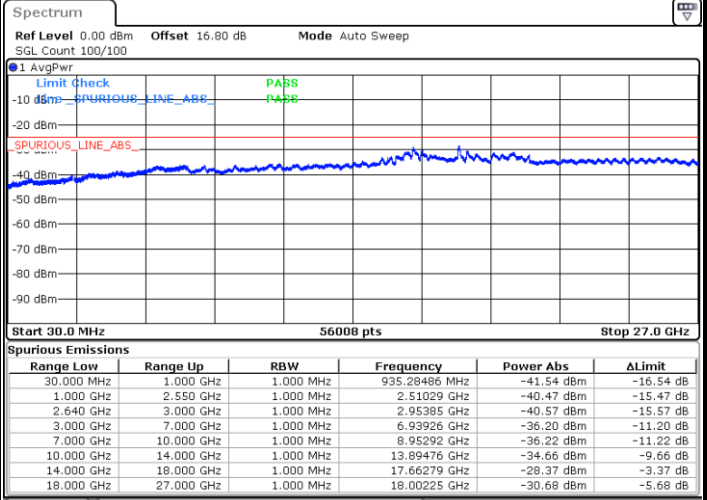
LTE Band 38 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

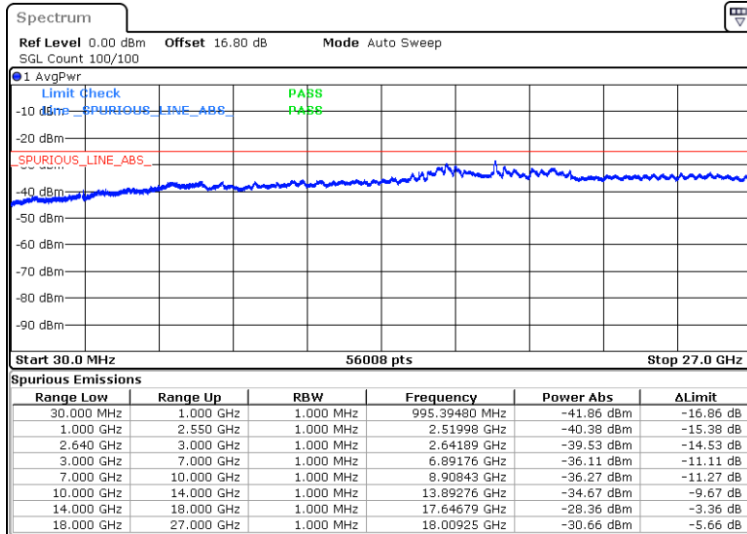


Date: 1.AUG.2023 16:59:41



Date: 1.AUG.2023 17:01:21

Highest Channel / QPSK



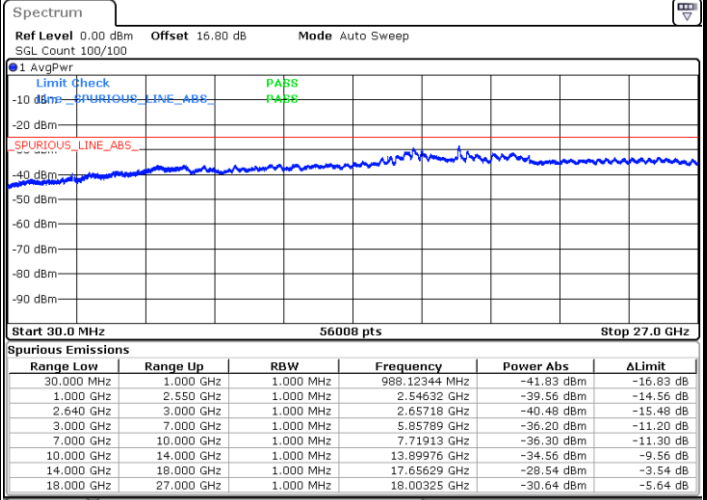
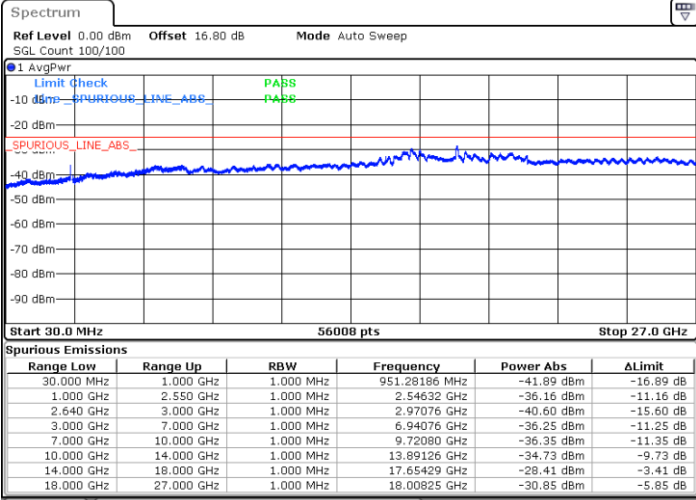
Date: 1.AUG.2023 17:03:01



LTE Band 38 / 20MHz

Lowest Channel / QPSK

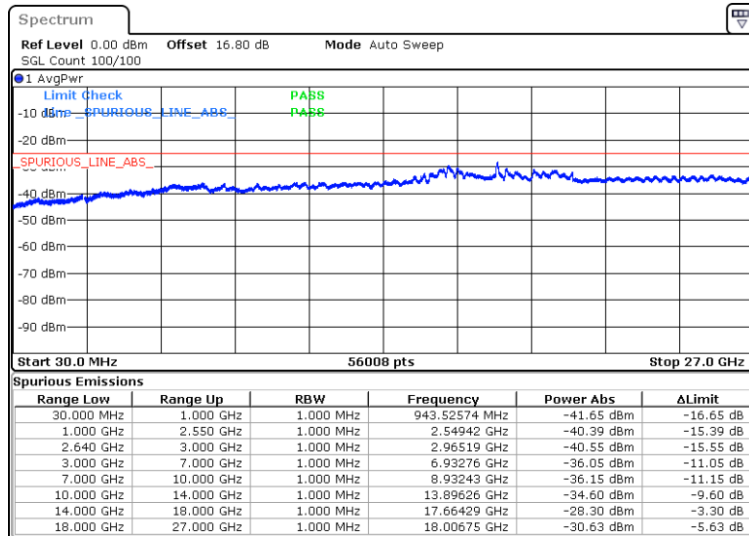
Middle Channel / QPSK



Date: 1.AUG.2023 17:04:46

Date: 1.AUG.2023 17:06:28

Highest Channel / QPSK



Date: 1.AUG.2023 17:08:08



### Frequency Stability

Test Conditions		LTE Band 38 (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	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0002	

**Note:**

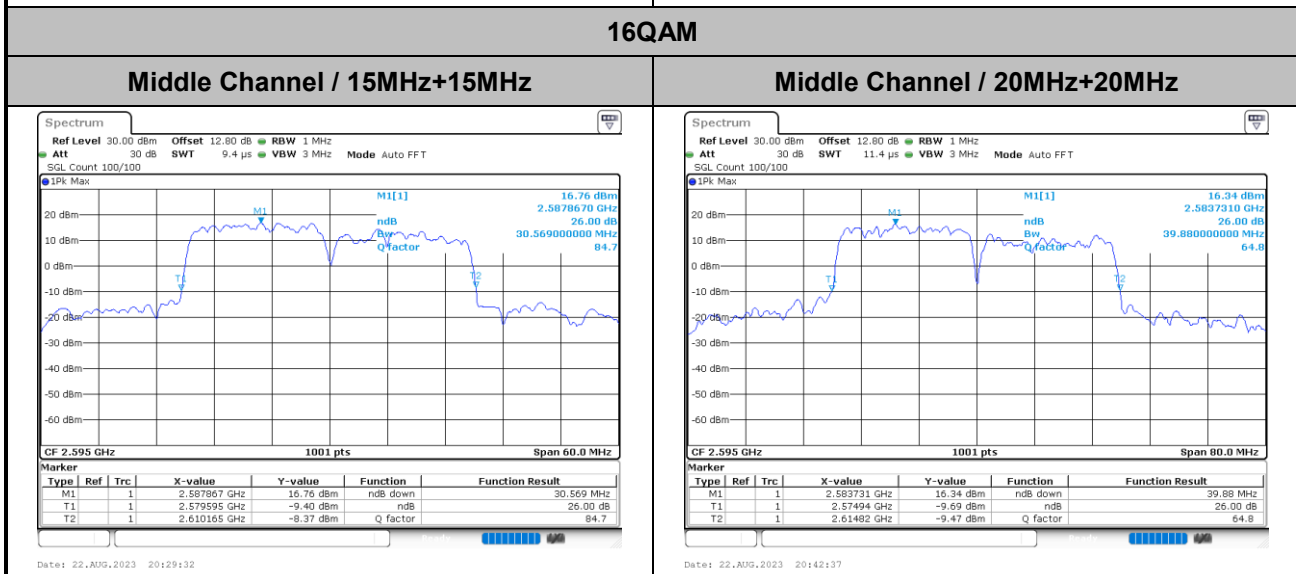
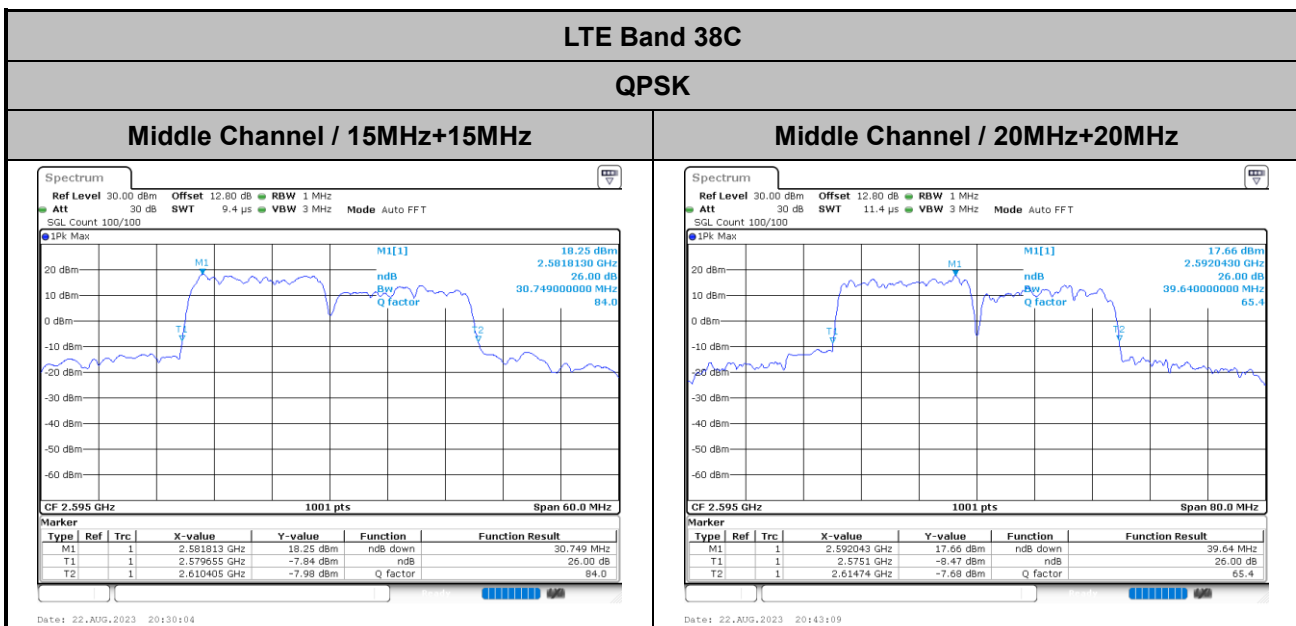
- 1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38C

## 26dB Bandwidth

Mode	LTE Band 38C : 26dB BW(MHz)			
	QPSK	16QAM	64QAM	256QAM
<b>BW</b>	<b>15MHz+15MHz</b>	<b>15MHz+15MHz</b>	<b>15MHz+15MHz</b>	<b>15MHz+15MHz</b>
<b>Middle CH</b>	30.75	30.57	30.51	30.39
<b>BW</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>
<b>Middle CH</b>	39.64	39.88	39.80	39.88



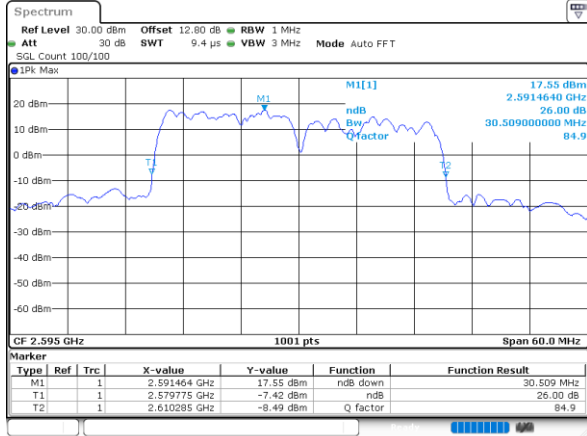




LTE Band 38C

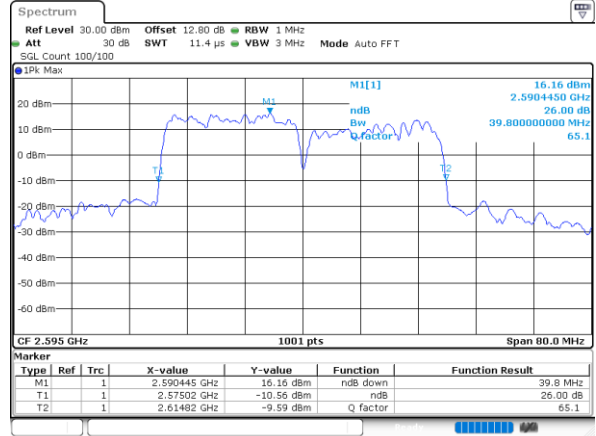
64QAM

Middle Channel / 15MHz+15MHz



Date: 22.AUG.2023 20:29:00

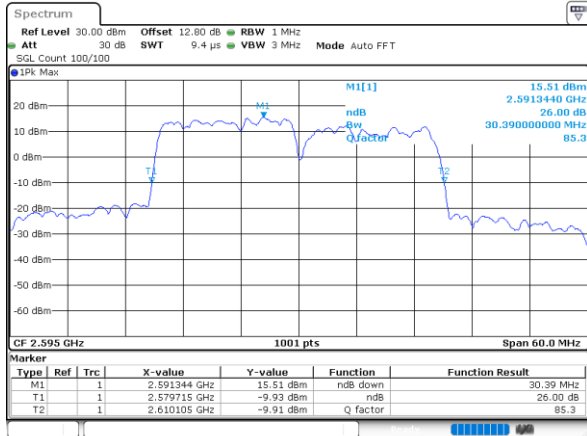
Middle Channel / 20MHz+20MHz



Date: 22.AUG.2023 20:42:05

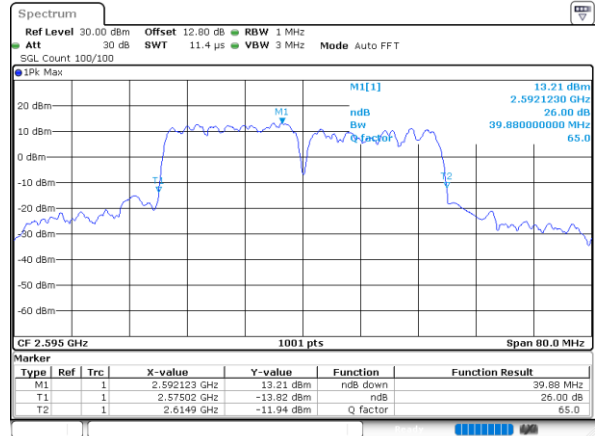
256QAM

Middle Channel / 15MHz+15MHz



Date: 22.AUG.2023 20:28:28

Middle Channel / 20MHz+20MHz

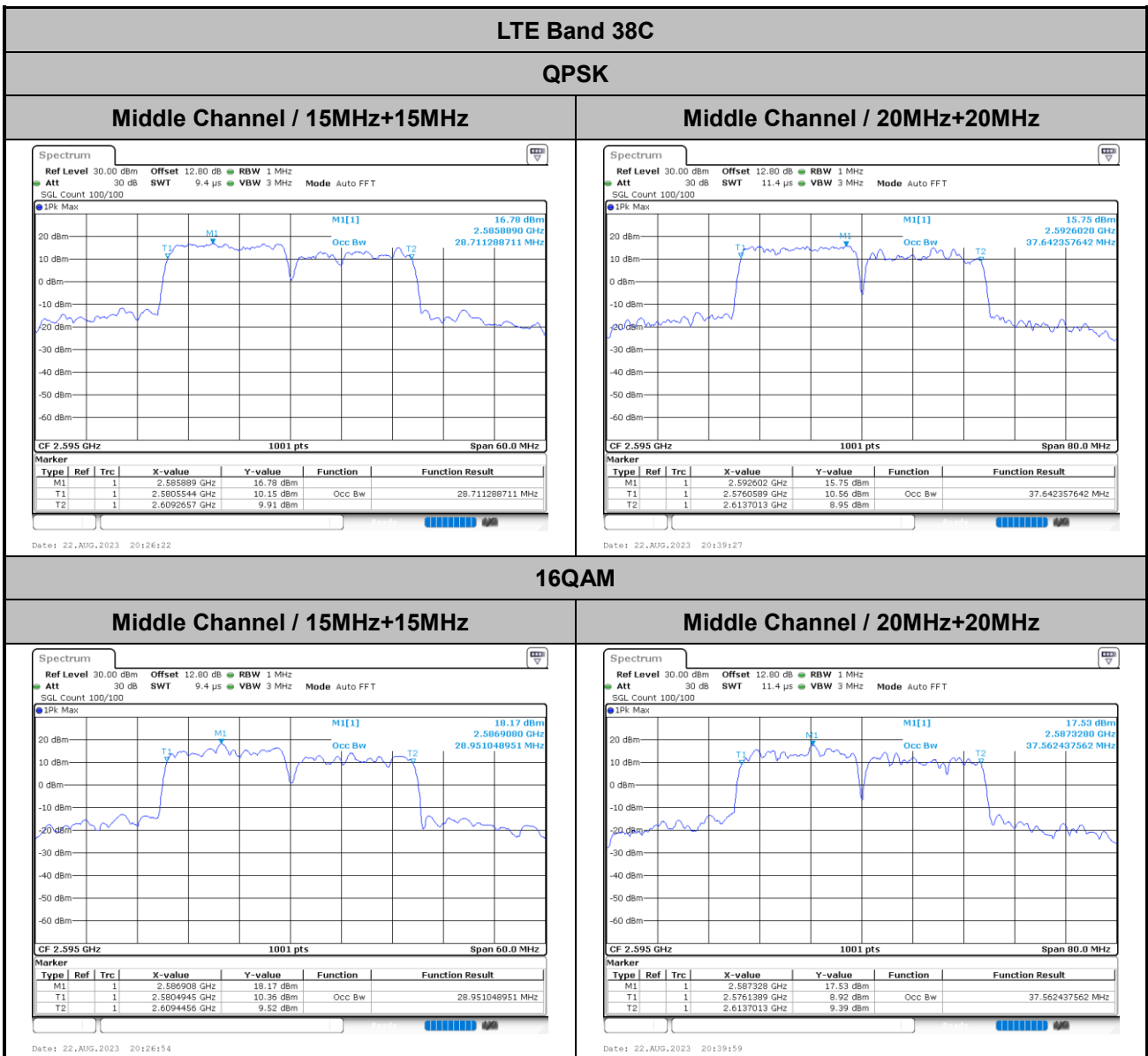


Date: 22.AUG.2023 20:41:33



# Occupied Bandwidth

Mode	LTE Band 38C : 99%OBW(MHz)			
	QPSK	16QAM	64QAM	256QAM
<b>BW</b>	<b>15MHz+15MHz</b>	<b>15MHz+15MHz</b>	<b>15MHz+15MHz</b>	<b>15MHz+15MHz</b>
<b>Middle CH</b>	<b>28.71</b>	<b>28.95</b>	<b>28.65</b>	<b>28.41</b>
<b>BW</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>	<b>20MHz+20MHz</b>
<b>Middle CH</b>	<b>37.64</b>	<b>37.56</b>	<b>37.56</b>	<b>37.24</b>

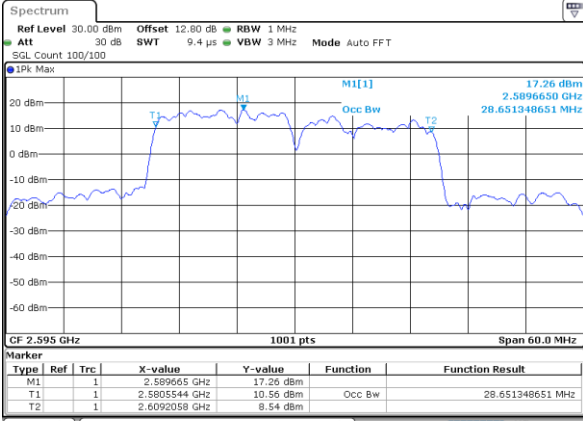




LTE Band 38C

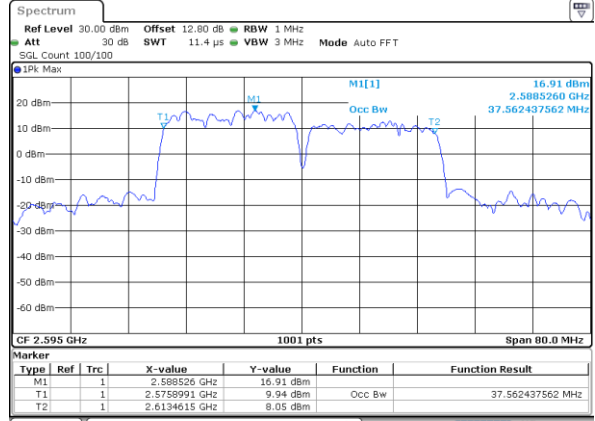
64QAM

Middle Channel / 15MHz+15MHz



Date: 22.AUG.2023 20:27:26

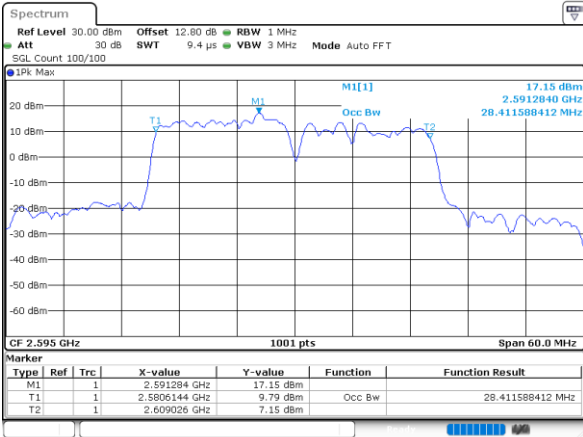
Middle Channel / 20MHz+20MHz



Date: 22.AUG.2023 20:40:31

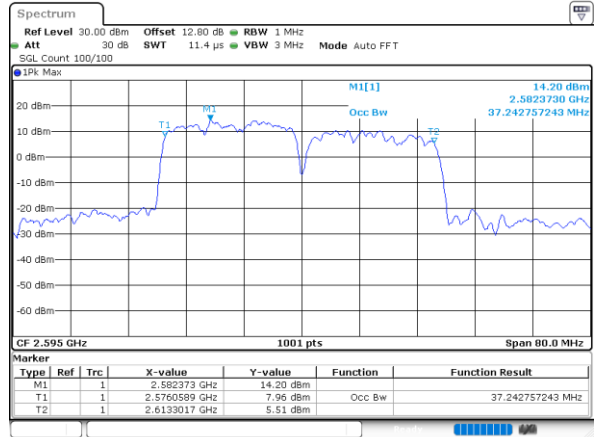
256QAM

Middle Channel / 15MHz+15MHz



Date: 22.AUG.2023 20:27:50

Middle Channel / 20MHz+20MHz



Date: 22.AUG.2023 20:41:02

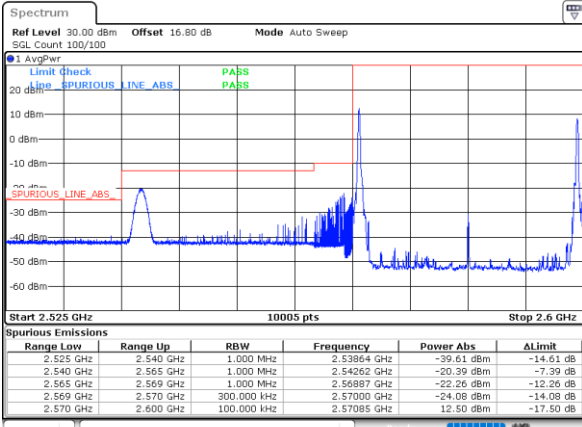


# Conducted Band Edge

## LTE Band 38C / 15MHz+15MHz

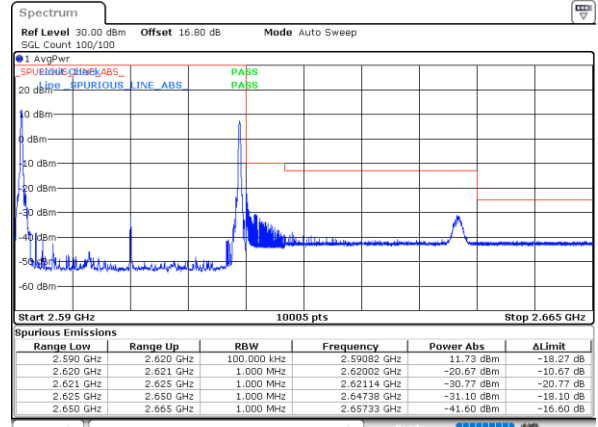
### QPSK

#### Lowest Band Edge / 1RB0 and 1RB74



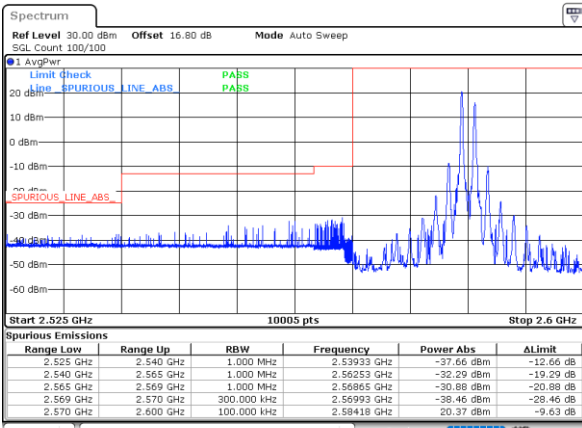
Date: 22\_AUG\_2023 19:37:13

#### Highest Band Edge / 1RB0 and 1RB74



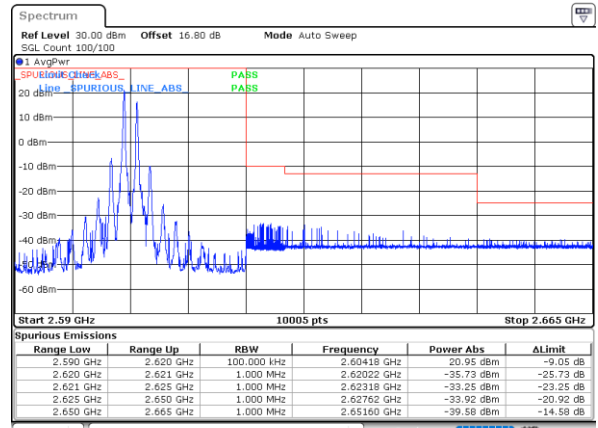
Date: 22\_AUG\_2023 19:19:04

#### Lowest Band Edge / 1RB74 and 1RB0



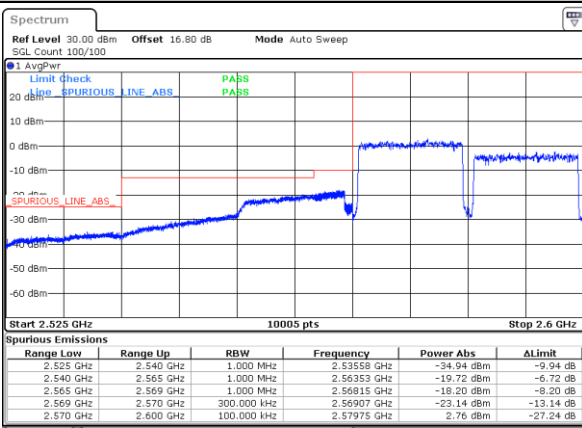
Date: 22\_AUG\_2023 19:41:41

#### Highest Band Edge / 1RB74 and 1RB0



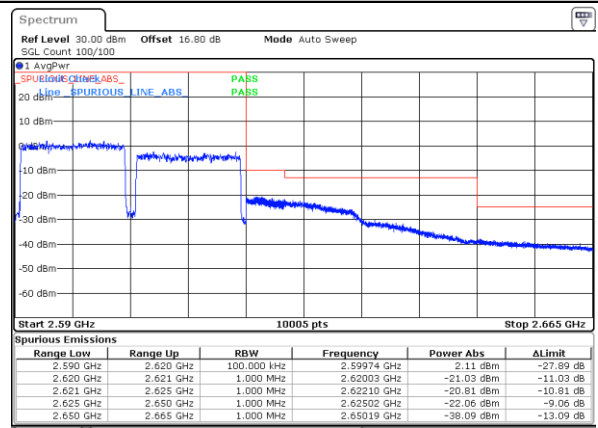
Date: 22\_AUG\_2023 19:23:13

#### Lowest Band Edge / Full RB



Date: 22\_AUG\_2023 19:33:21

#### Highest Band Edge / Full RB



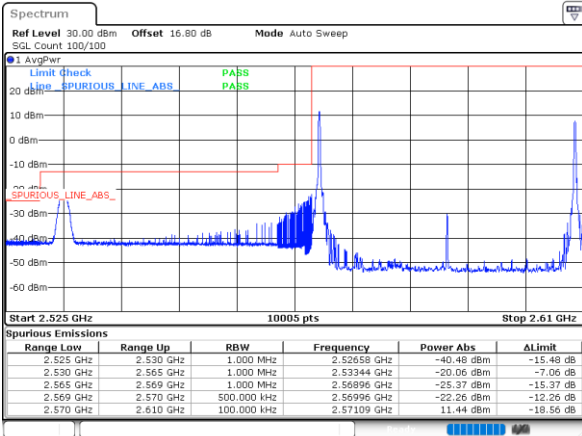
Date: 22\_AUG\_2023 19:14:55



LTE Band 38C / 20MHz+20MHz

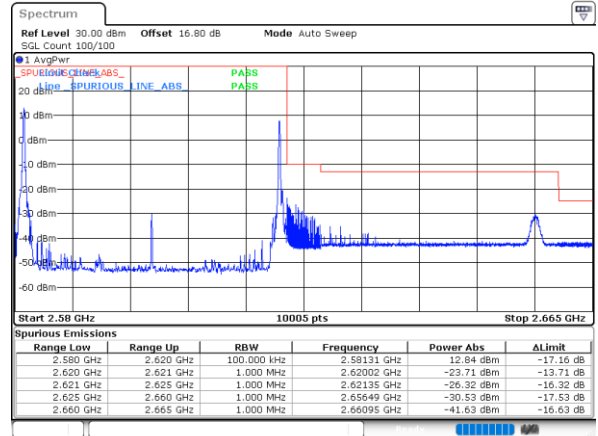
QPSK

Lowest Band Edge / 1RB0 and 1RB9



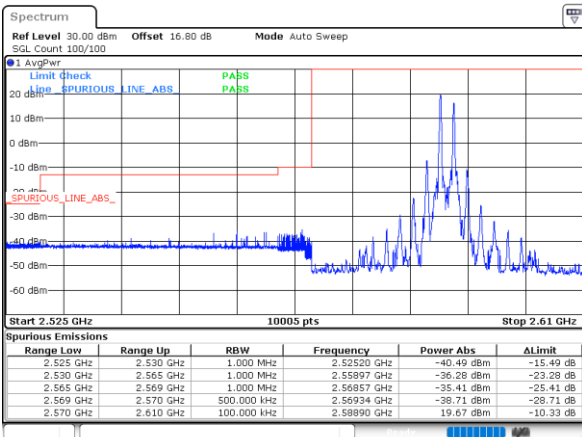
Date: 22.AUG.2023 20:11:20

Highest Band Edge / 1RB0 and 1RB9



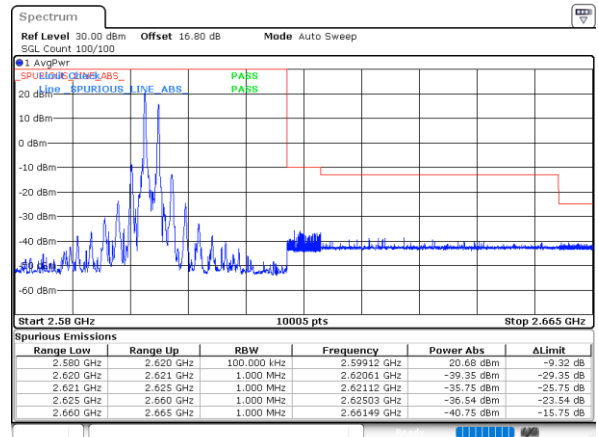
Date: 22.AUG.2023 19:52:57

Lowest Band Edge / 1RB99 and 1RB0



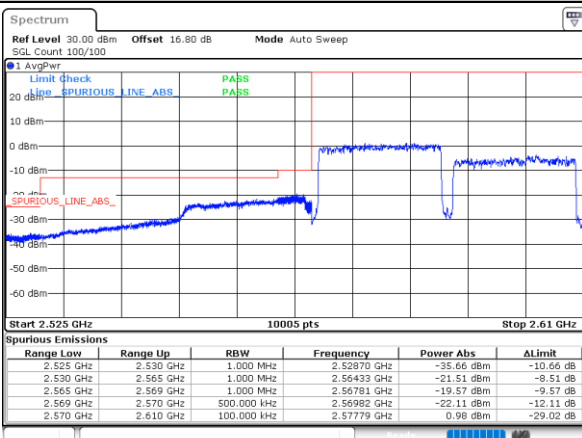
Date: 22.AUG.2023 20:15:30

Highest Band Edge / 1RB99 and 1RB0



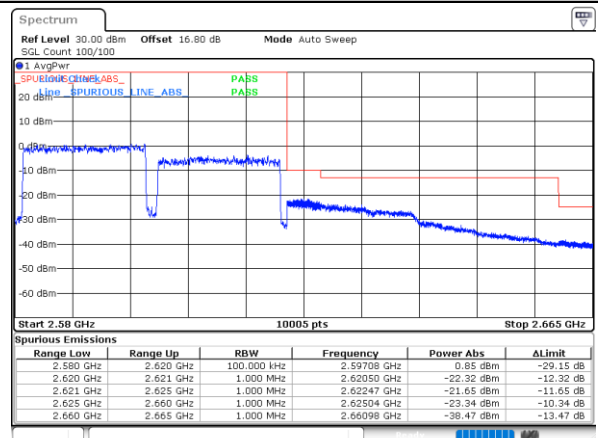
Date: 22.AUG.2023 19:57:06

Lowest Band Edge / Full RB



Date: 22.AUG.2023 20:07:10

Highest Band Edge / Full RB



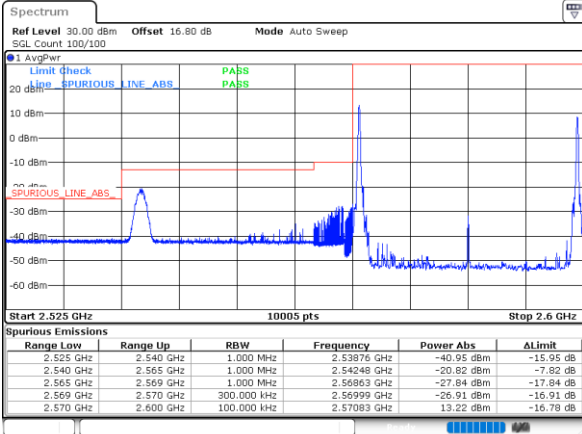
Date: 22.AUG.2023 19:48:48



LTE Band 38C / 15MHz+15MHz

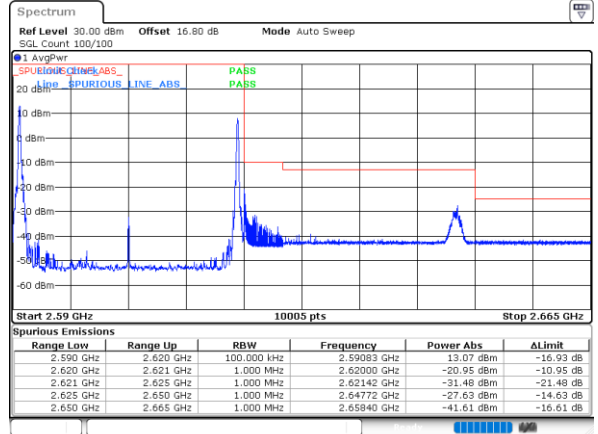
16QAM

Lowest Band Edge / 1RB0 and 1RB74



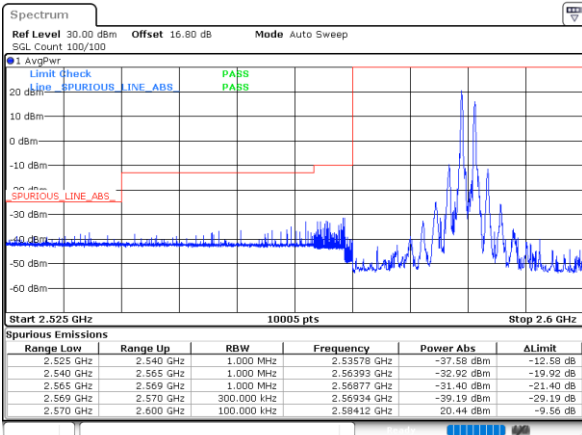
Date: 22\_AUG\_2023 19:38:33

Highest Band Edge / 1RB0 and 1RB74



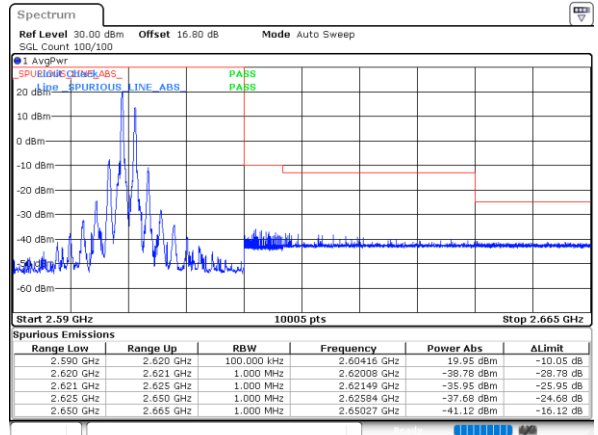
Date: 22\_AUG\_2023 19:29:06

Lowest Band Edge / 1RB74 and 1RB0



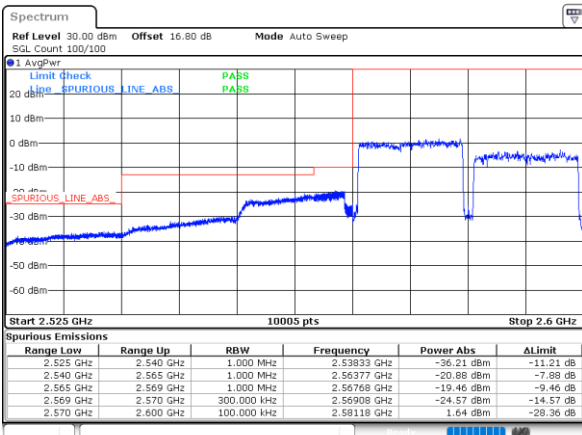
Date: 22\_AUG\_2023 19:42:43

Highest Band Edge / 1RB74 and 1RB0



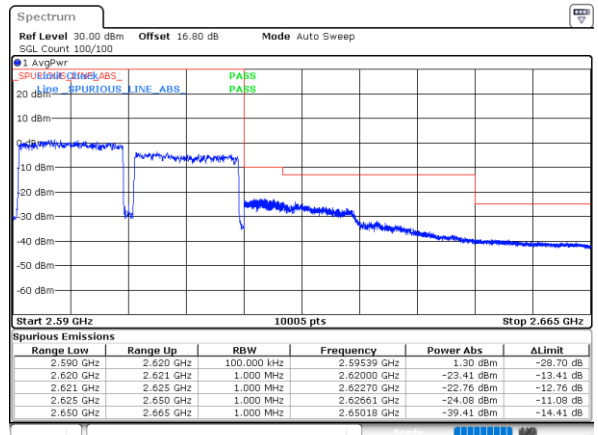
Date: 22\_AUG\_2023 19:24:15

Lowest Band Edge / Full RB



Date: 22\_AUG\_2023 19:34:23

Highest Band Edge / Full RB



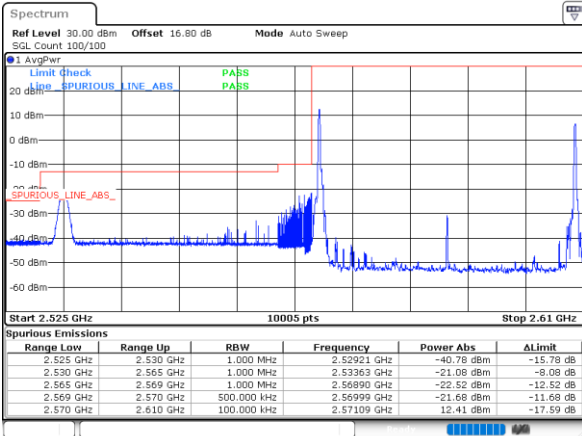
Date: 22\_AUG\_2023 19:15:57



LTE Band 38C / 20MHz+20MHz

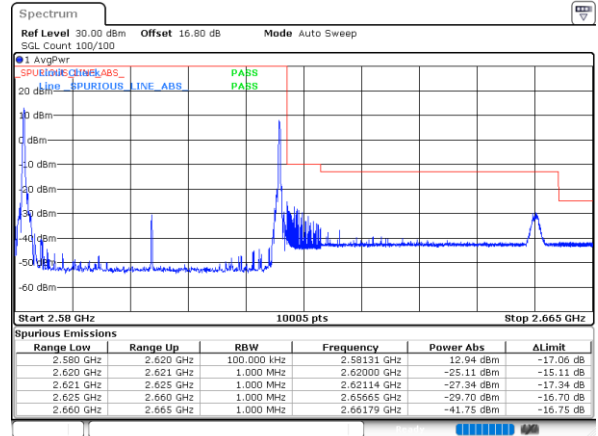
16QAM

Lowest Band Edge / 1RB0 and 1RB99



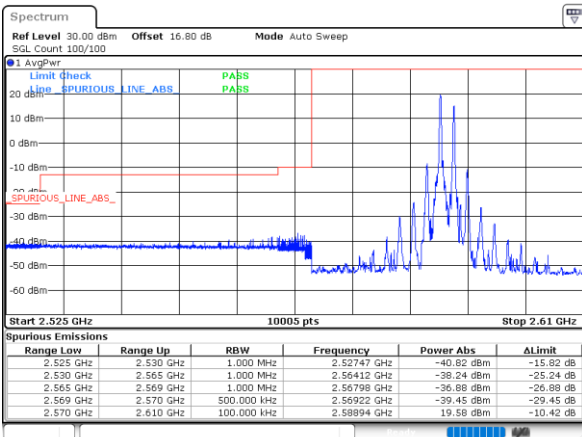
Date: 22.AUG.2023 20:12:22

Highest Band Edge / 1RB0 and 1RB99



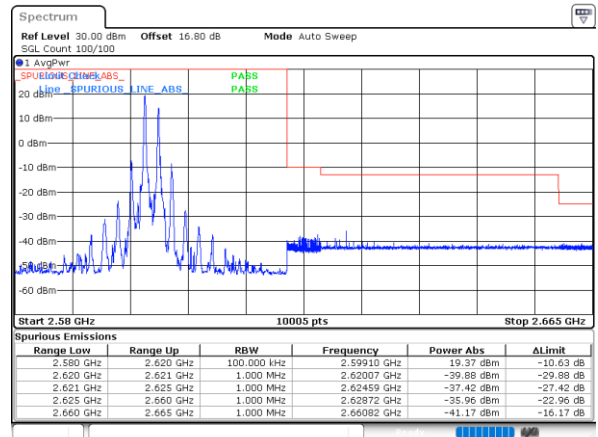
Date: 22.AUG.2023 19:53:59

Lowest Band Edge / 1RB99 and 1RB0



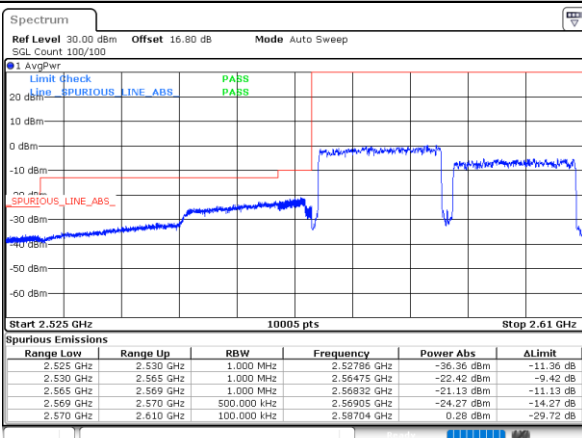
Date: 22.AUG.2023 20:16:32

Highest Band Edge / 1RB99 and 1RB0



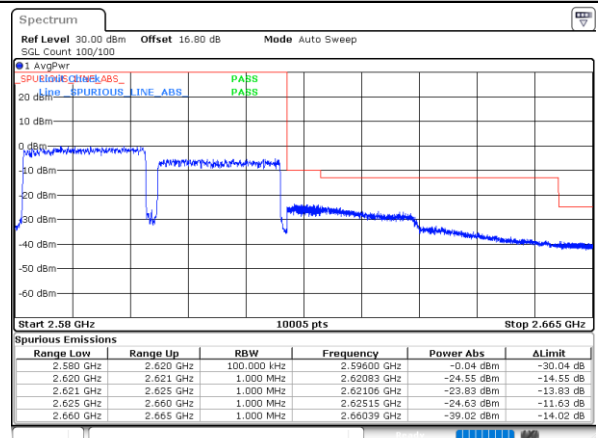
Date: 22.AUG.2023 19:58:08

Lowest Band Edge / Full RB



Date: 22.AUG.2023 20:08:12

Highest Band Edge / Full RB



Date: 22.AUG.2023 19:49:50

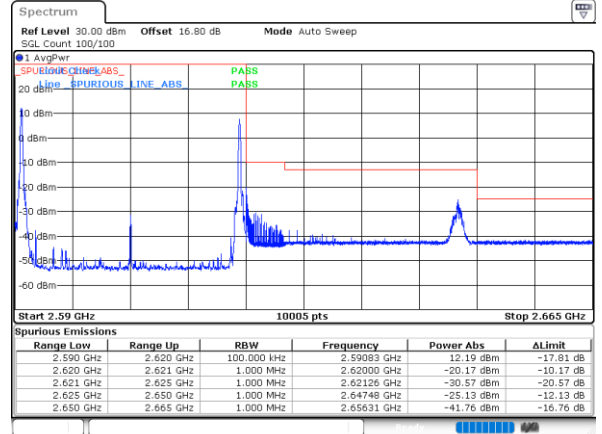
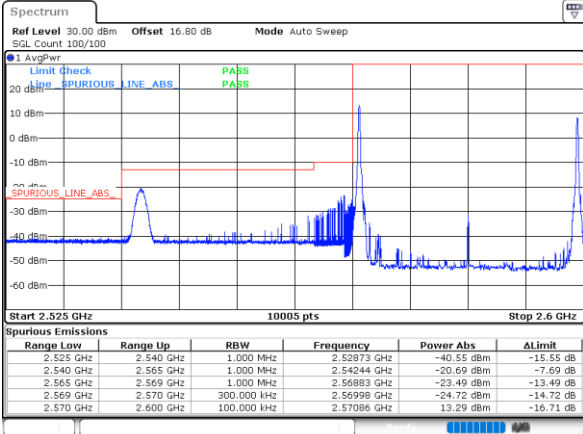


LTE Band 38C / 15MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

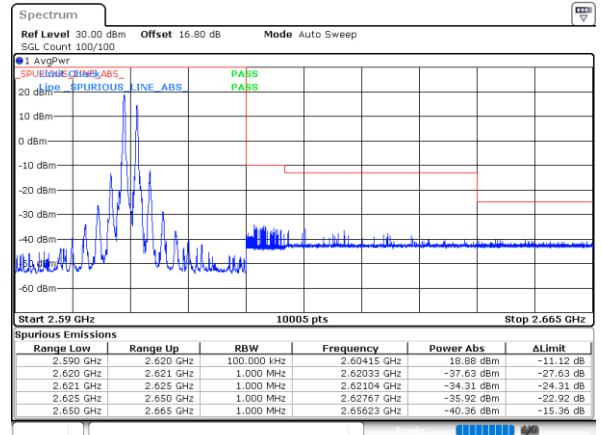
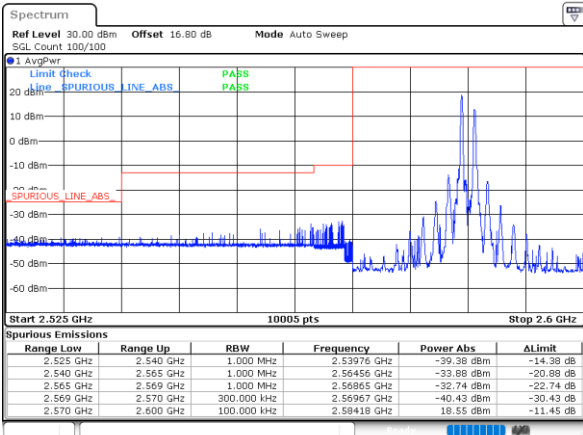


Date: 22.AUG.2023 19:13:15

Date: 22.AUG.2023 19:21:08

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

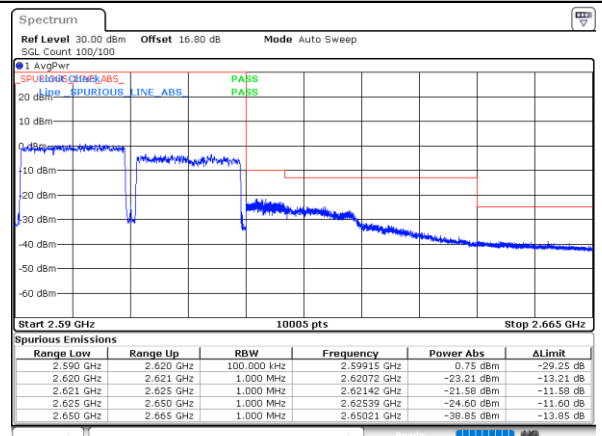
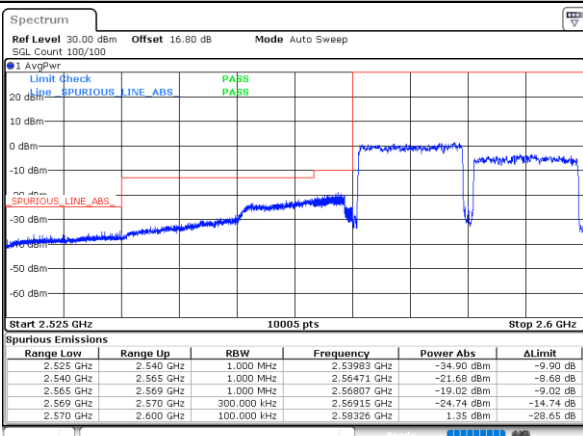


Date: 22.AUG.2023 19:43:45

Date: 22.AUG.2023 19:25:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.AUG.2023 19:35:25

Date: 22.AUG.2023 19:16:59

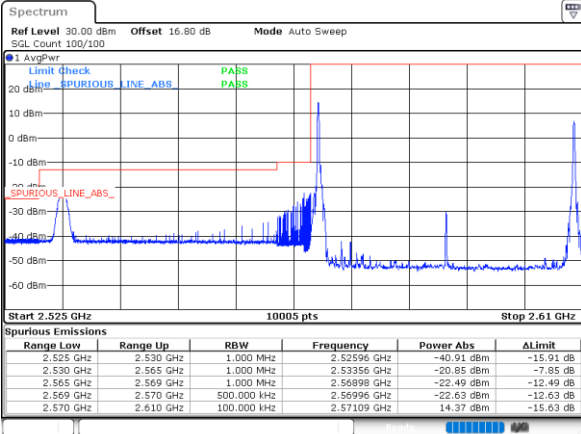




LTE Band 38C / 20MHz+20MHz

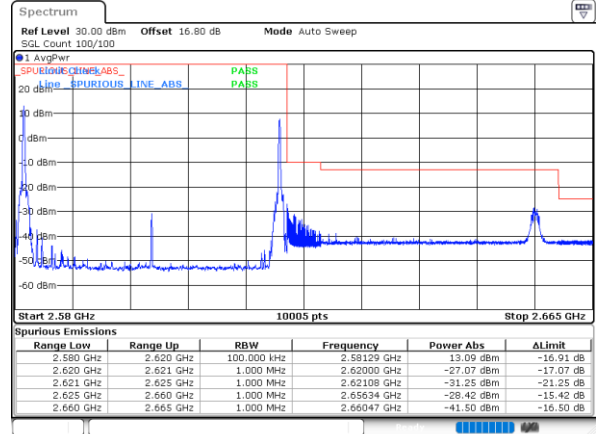
64QAM

Lowest Band Edge / 1RB0 and 1RB99



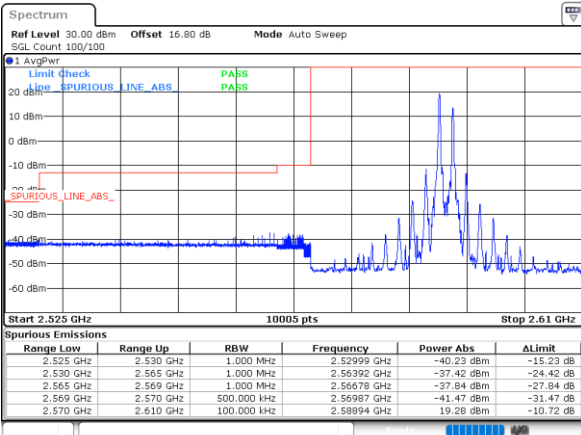
Date: 22.AUG.2023 20:13:24

Highest Band Edge / 1RB0 and 1RB99



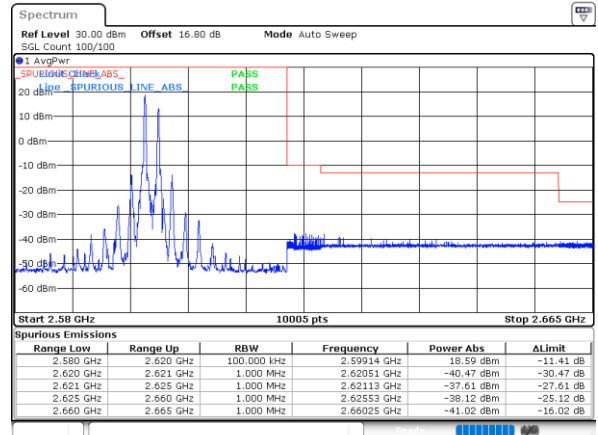
Date: 22.AUG.2023 19:55:01

Lowest Band Edge / 1RB99 and 1RB0



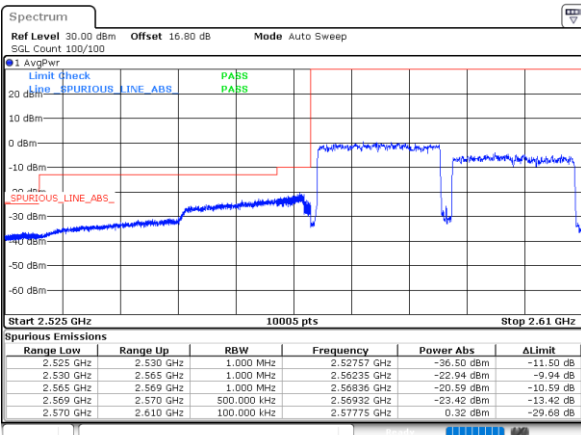
Date: 22.AUG.2023 20:17:34

Highest Band Edge / 1RB99 and 1RB0



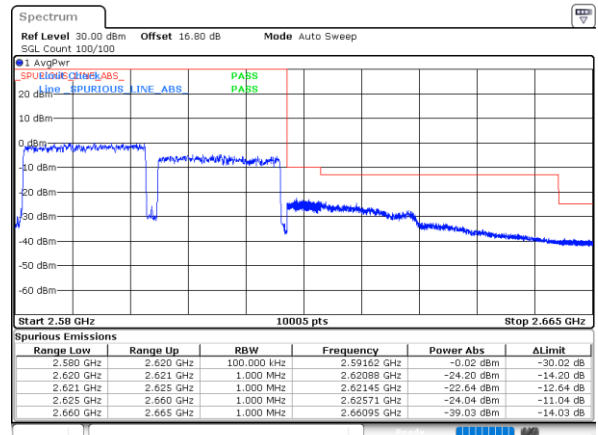
Date: 22.AUG.2023 19:59:10

Lowest Band Edge / Full RB



Date: 22.AUG.2023 20:09:14

Highest Band Edge / Full RB



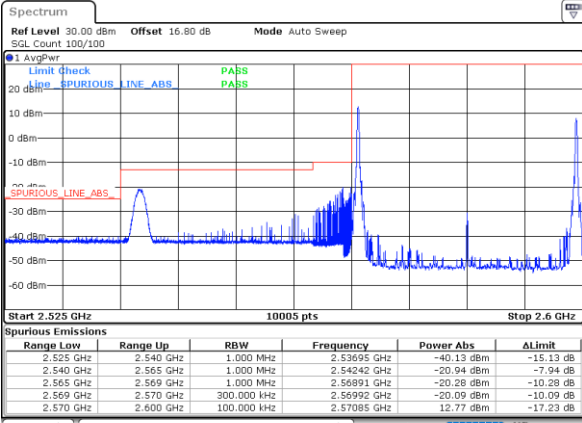
Date: 22.AUG.2023 19:50:51



LTE Band 38C / 15MHz+15MHz

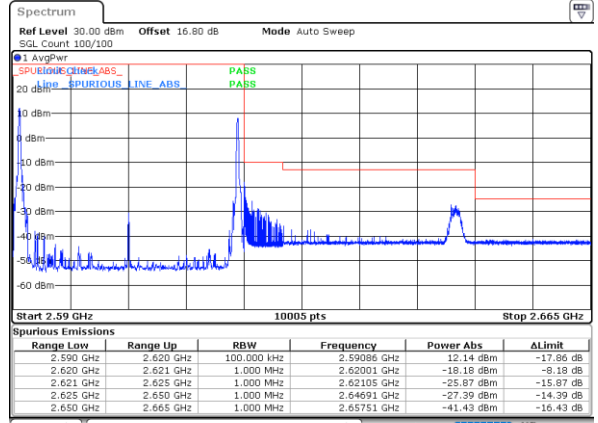
256QAM

Lowest Band Edge / 1RB0 and 1RB74



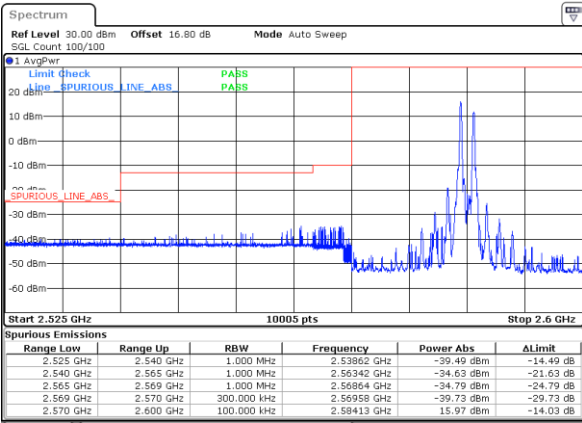
Date: 22.AUG.2023 19:40:38

Highest Band Edge / 1RB0 and 1RB74



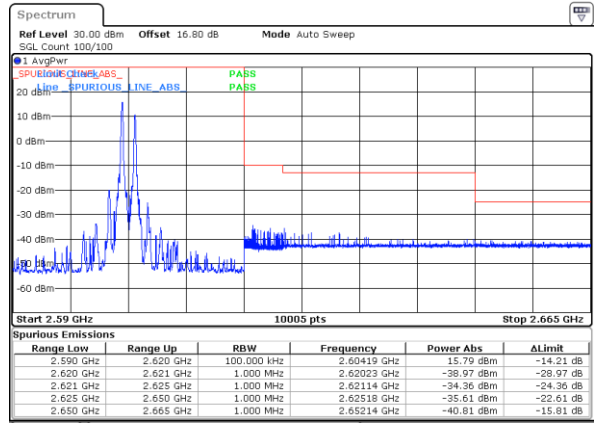
Date: 22.AUG.2023 19:22:10

Lowest Band Edge / 1RB74 and 1RB0



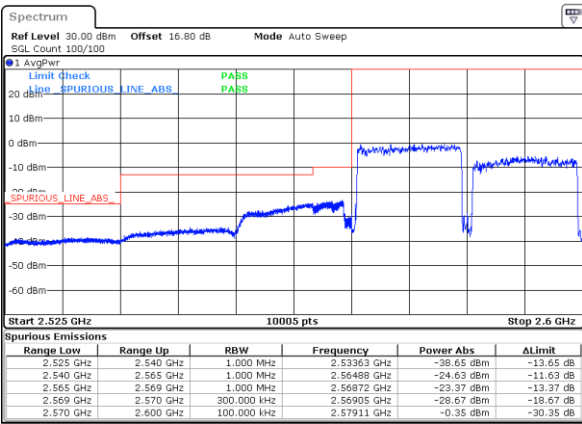
Date: 22.AUG.2023 19:44:48

Highest Band Edge / 1RB74 and 1RB0



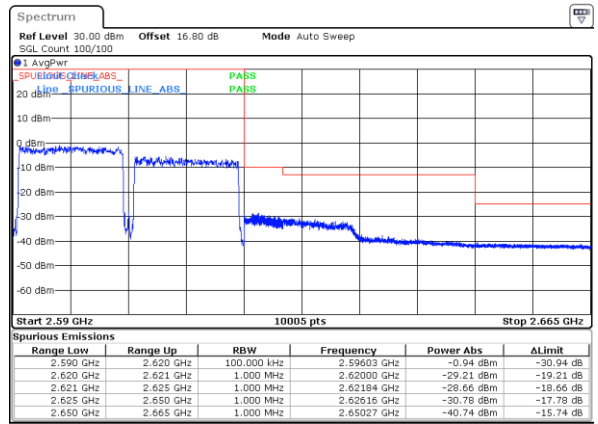
Date: 22.AUG.2023 19:22:19

Lowest Band Edge / Full RB



Date: 22.AUG.2023 19:36:27

Highest Band Edge / Full RB



Date: 22.AUG.2023 19:18:01

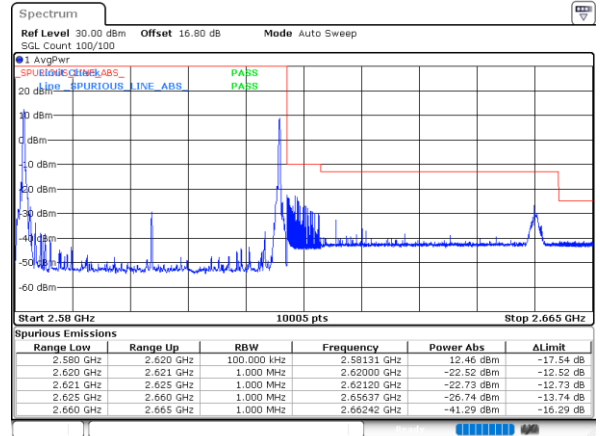
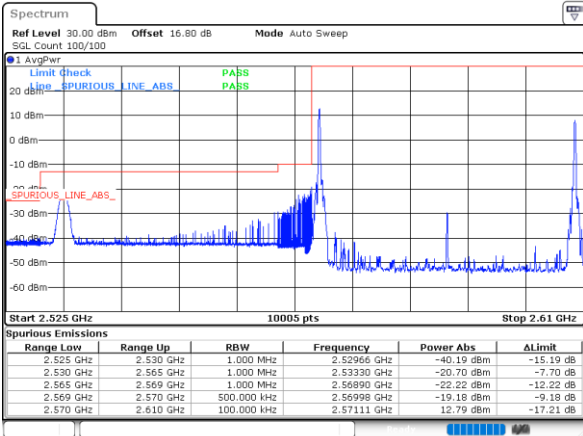


LTE Band 38C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

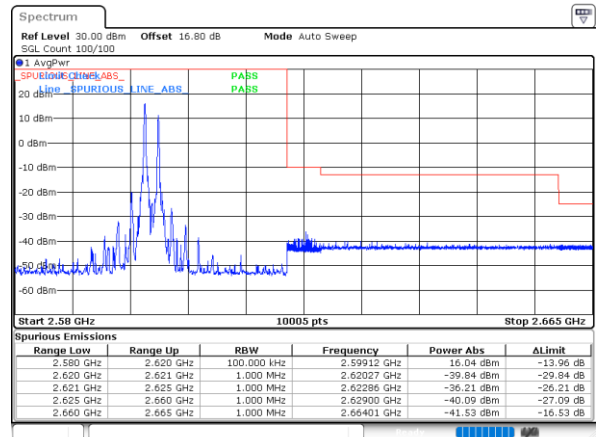
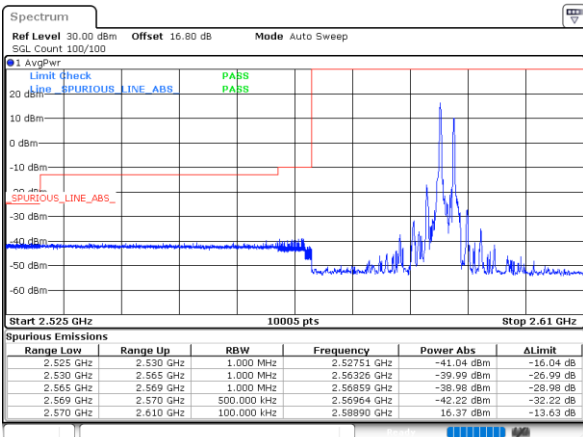


Date: 22.AUG.2023 20:14:27

Date: 22.AUG.2023 19:56:03

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

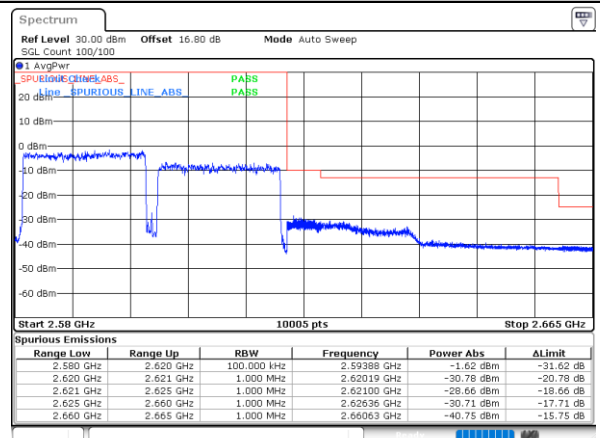
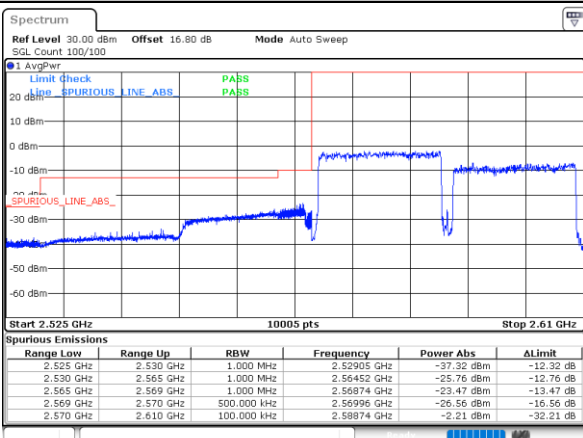


Date: 22.AUG.2023 20:18:37

Date: 22.AUG.2023 20:00:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.AUG.2023 20:10:16

Date: 22.AUG.2023 19:51:54



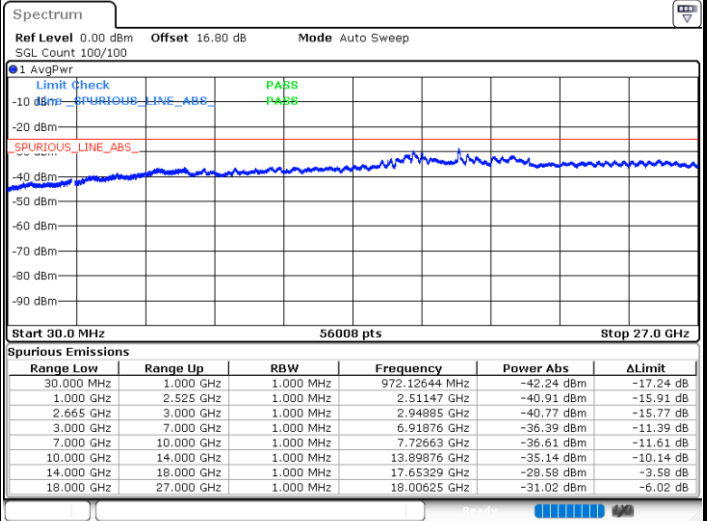
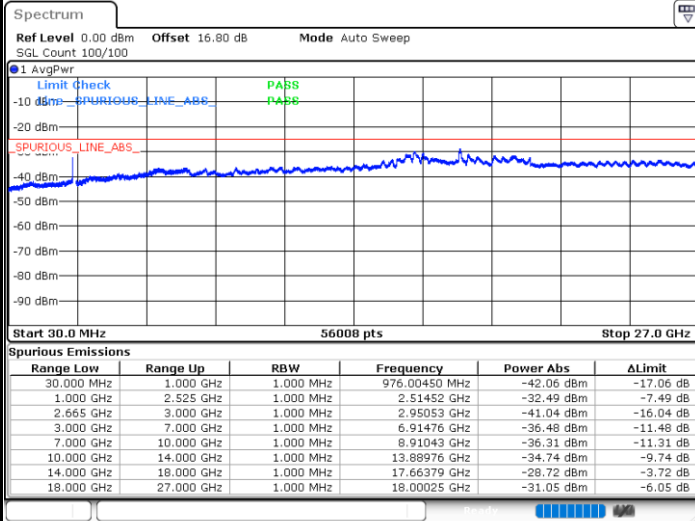
# Conducted Spurious Emission

## LTE Band 38C / 15MHz+15MHz

### QPSK

#### Lowest Channel / 1RB0 and 1RB74

#### Lowest Channel / 1RB74 and 1RB0

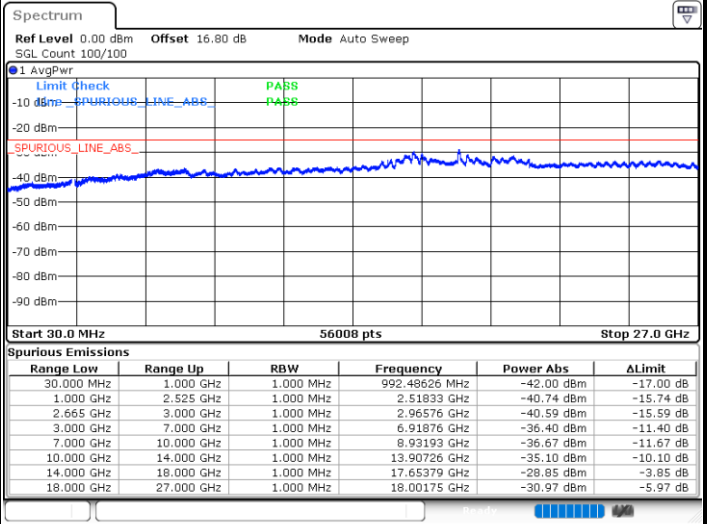
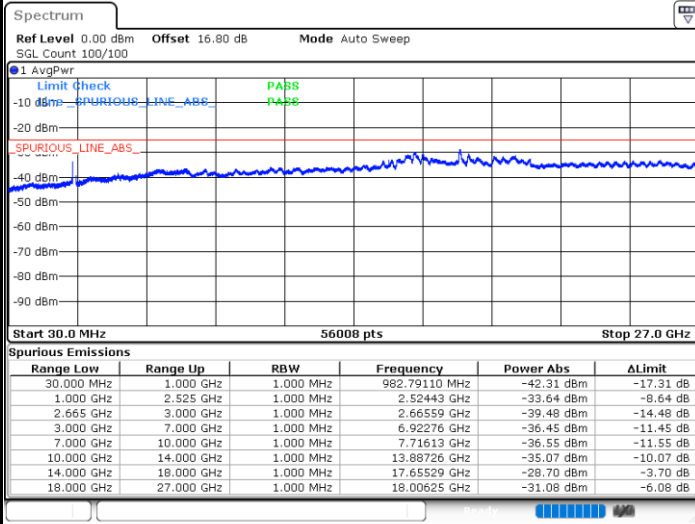


Date: 22.AUG.2023 19:47:31

Date: 22.AUG.2023 19:46:09

#### Middle Channel / 1RB0 and 1RB74

#### Middle Channel / 1RB74 and 1RB0



Date: 22.AUG.2023 19:30:39

Date: 22.AUG.2023 19:32:00

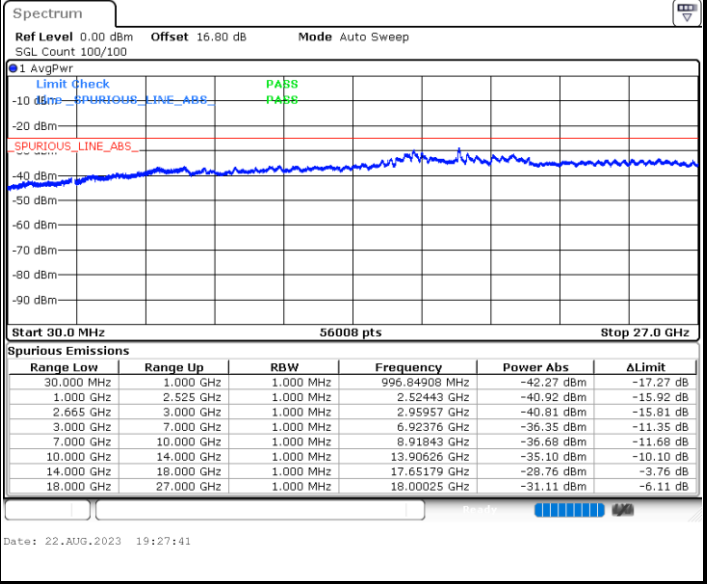
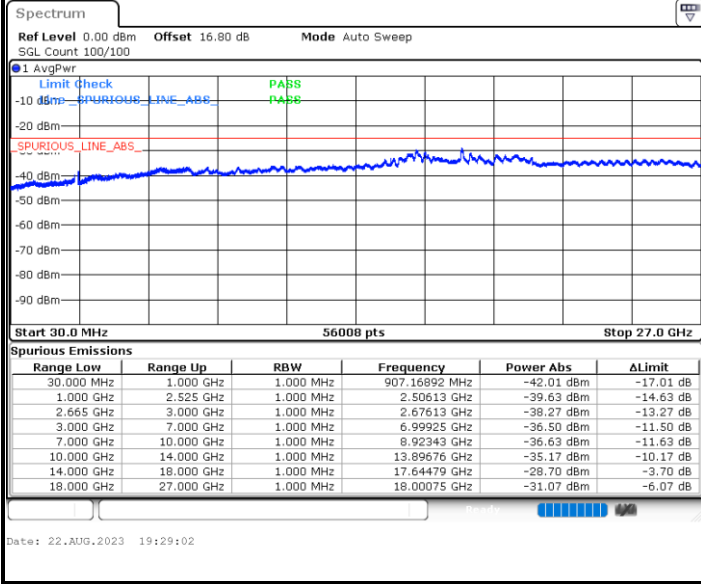


LTE Band 38C / 15MHz+15MHz

QPSK

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB74 and 1RB0



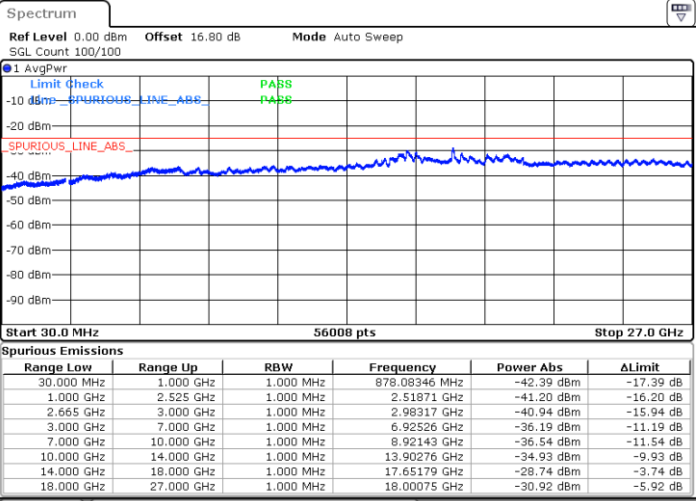
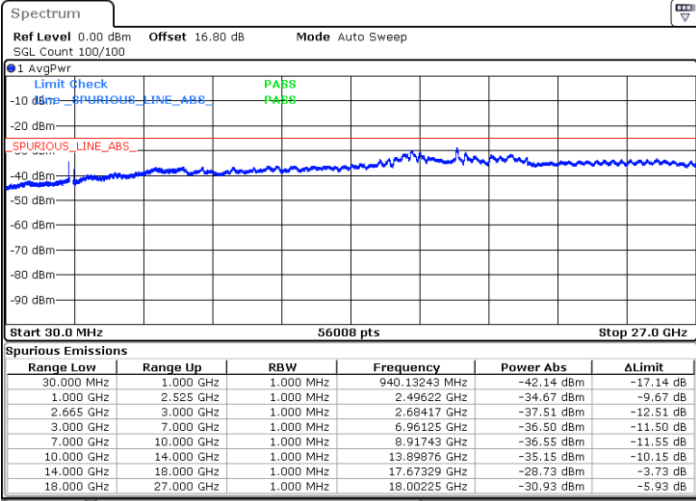


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

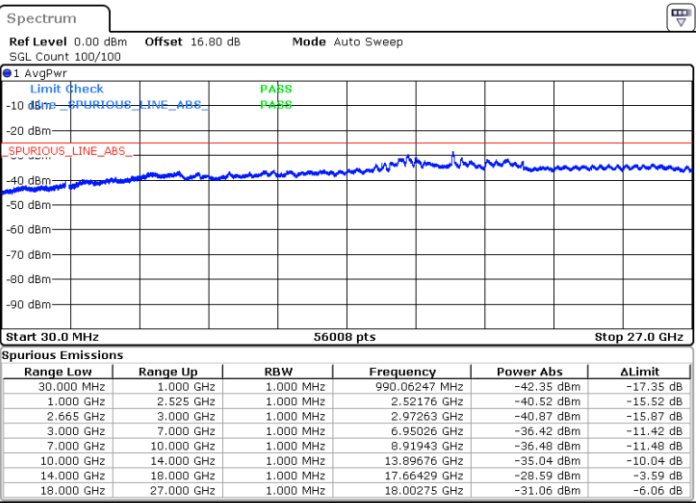
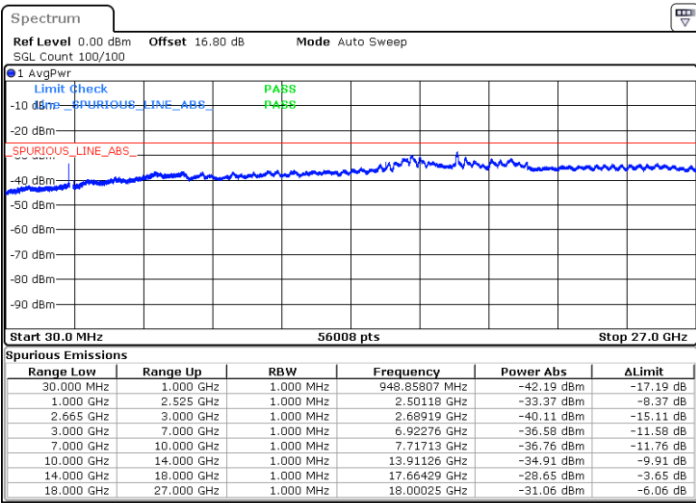


Date: 22.AUG.2023 20:21:20

Date: 22.AUG.2023 20:19:58

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 22.AUG.2023 20:04:31

Date: 22.AUG.2023 20:05:52

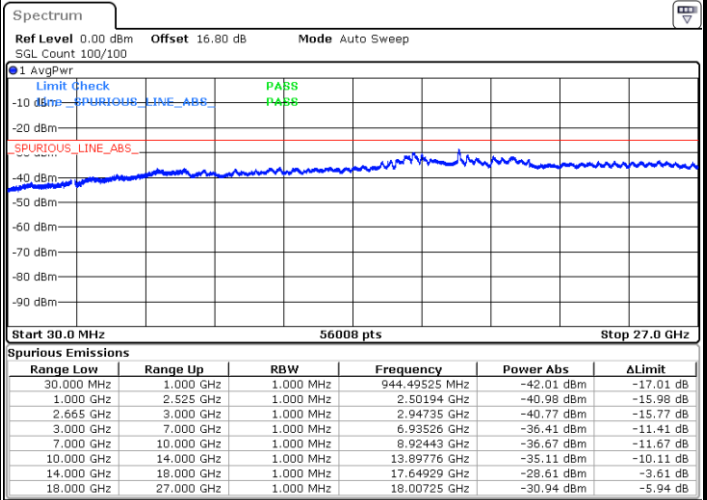
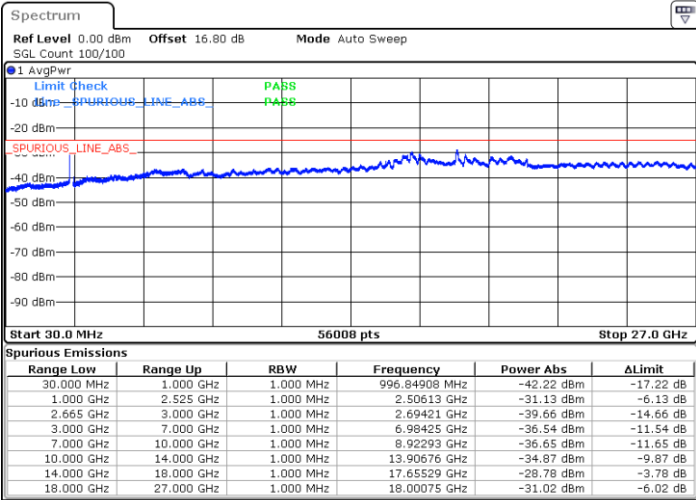


LTE Band 38C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 22.AUG.2023 20:02:54

Date: 22.AUG.2023 20:01:32



# LTE Band 41 HPUE

## 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	4.75	5.77	6.46	6.67	PASS

