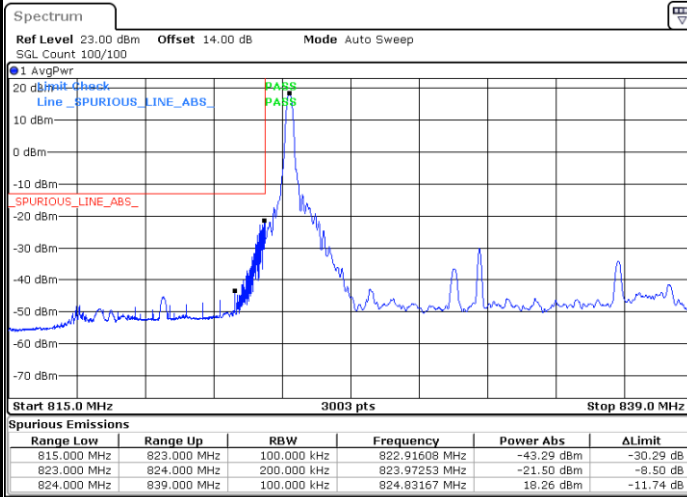




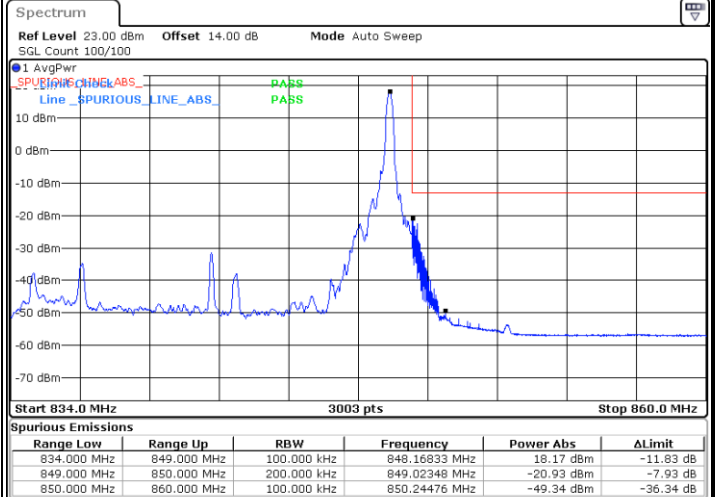
LTE Band 26 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



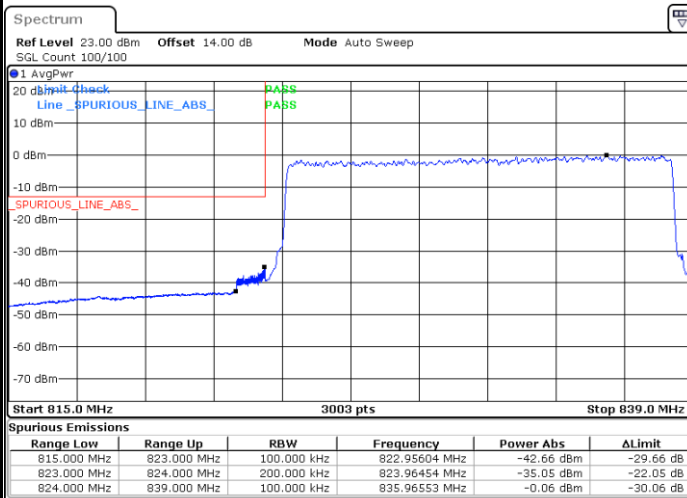
Date: 14.JAN.2025 23:40:56

Highest Band Edge / 1 RB



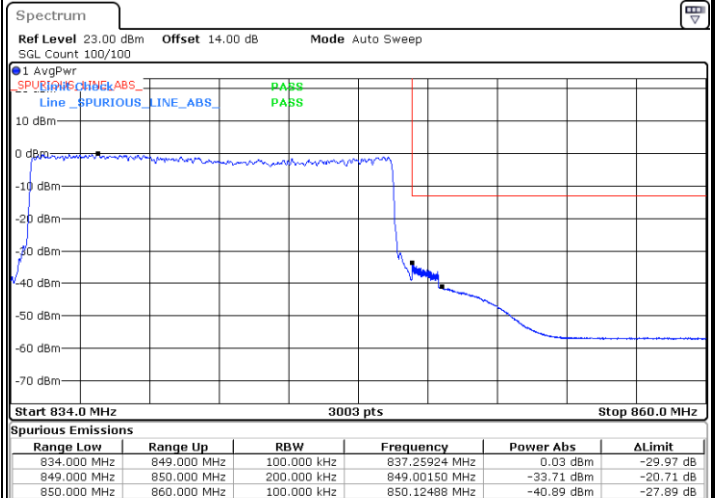
Date: 14.JAN.2025 23:52:03

Lowest Band Edge / Full RB



Date: 14.JAN.2025 23:43:56

Highest Band Edge / Full RB

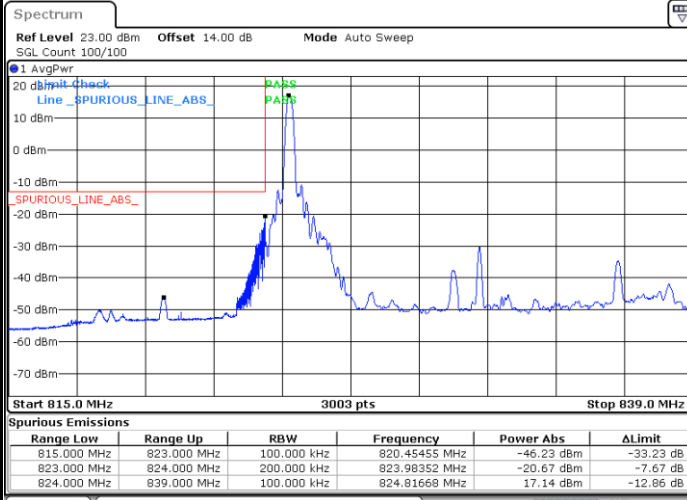


Date: 14.JAN.2025 23:55:04



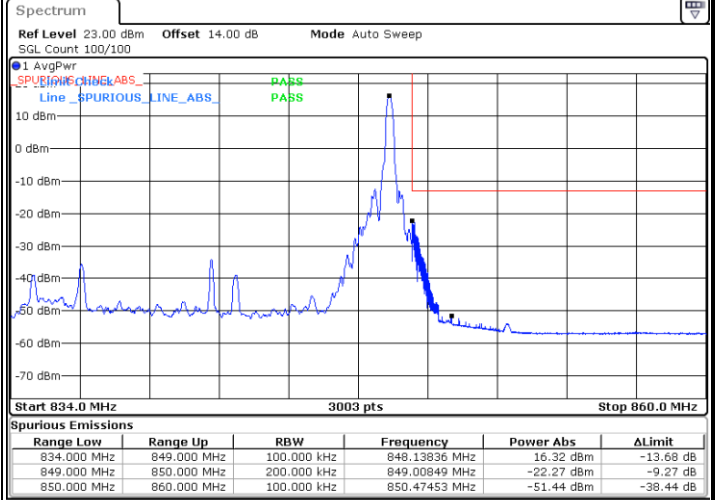
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



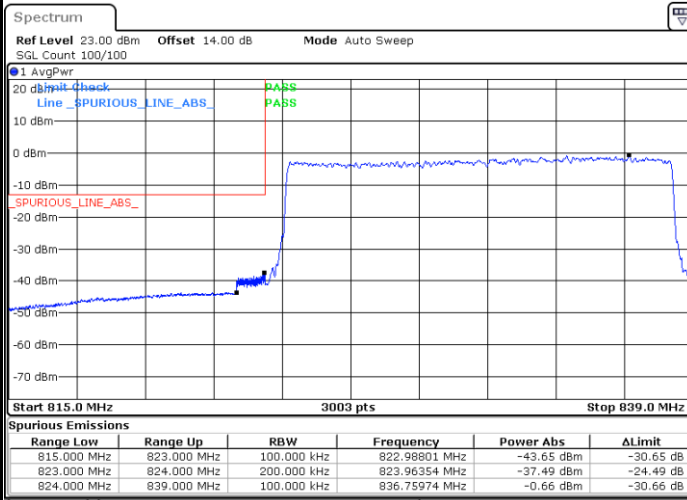
Date: 14.JAN.2025 23:41:56

Highest Band Edge / 1 RB



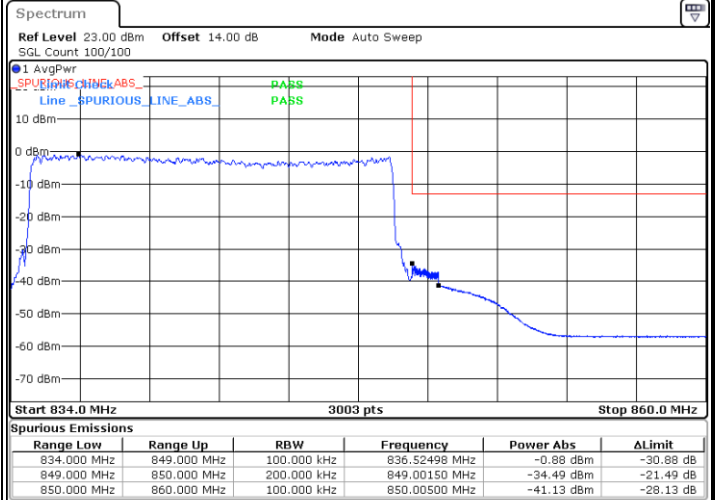
Date: 14.JAN.2025 23:53:03

Lowest Band Edge / Full RB



Date: 14.JAN.2025 23:42:56

Highest Band Edge / Full RB



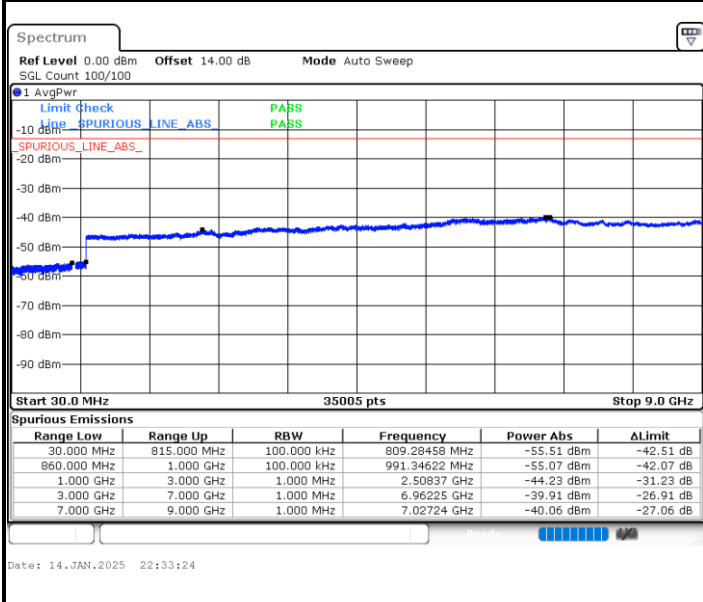
Date: 14.JAN.2025 23:54:04



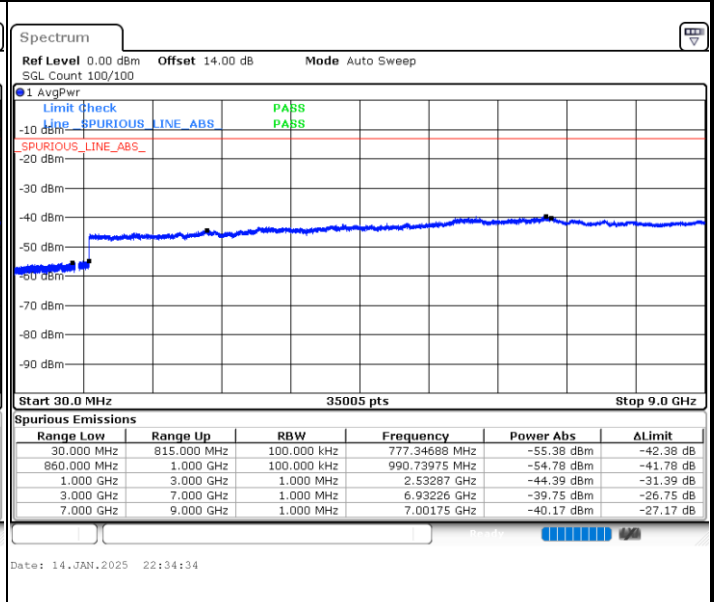
# Conducted Spurious Emission

## LTE Band 26 / 1.4MHz

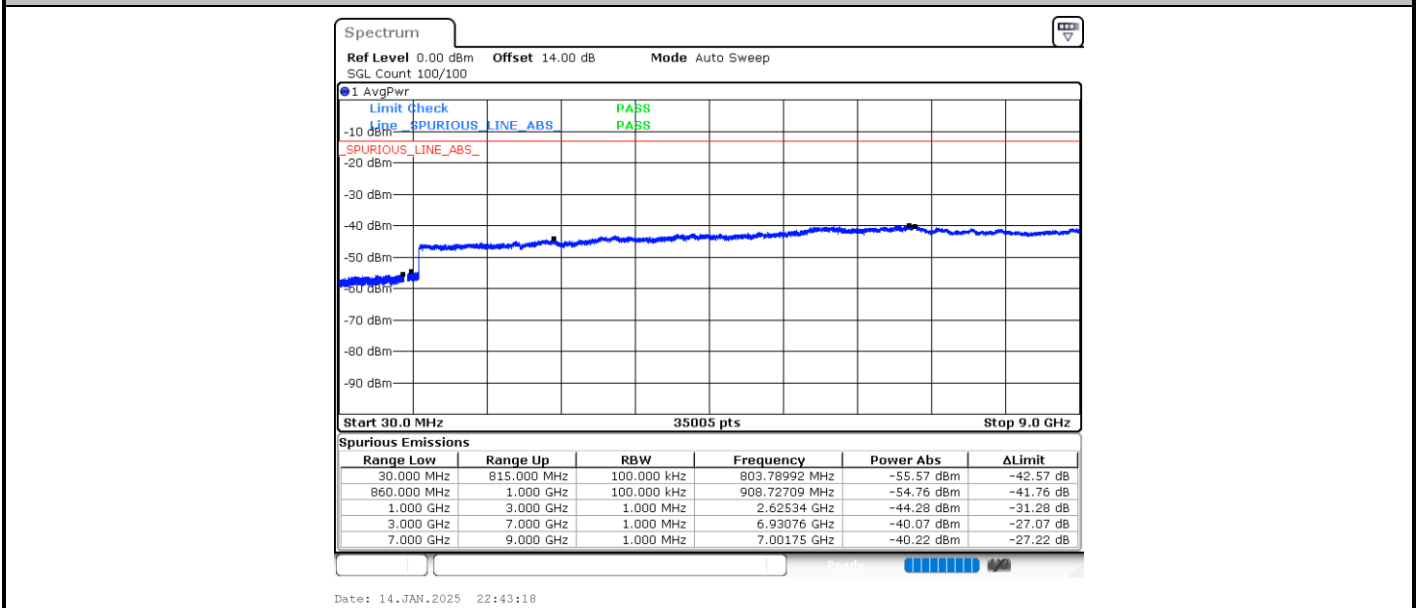
### Lowest Channel / QPSK



### Middle Channel / QPSK



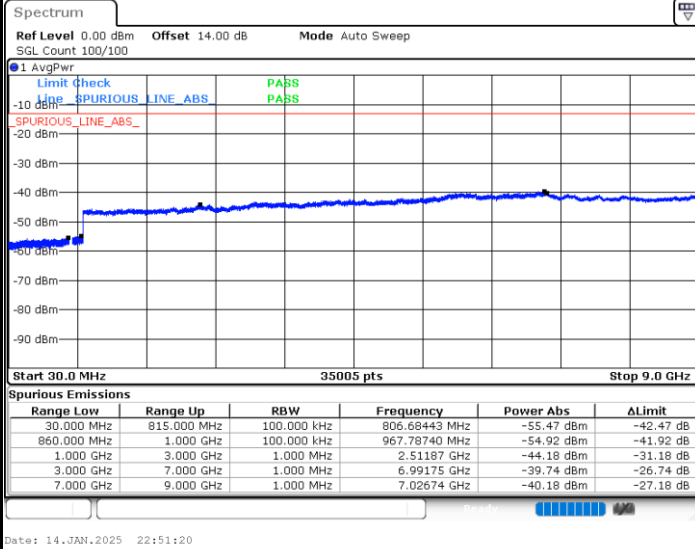
### Highest Channel / QPSK



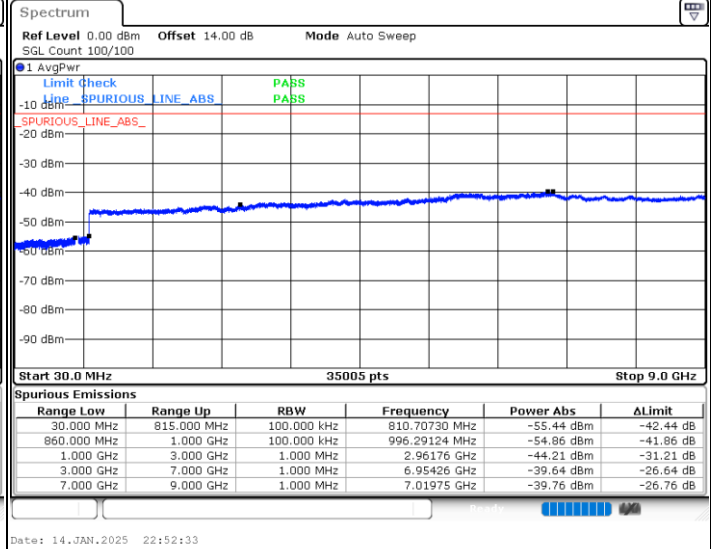


LTE Band 26 / 3MHz

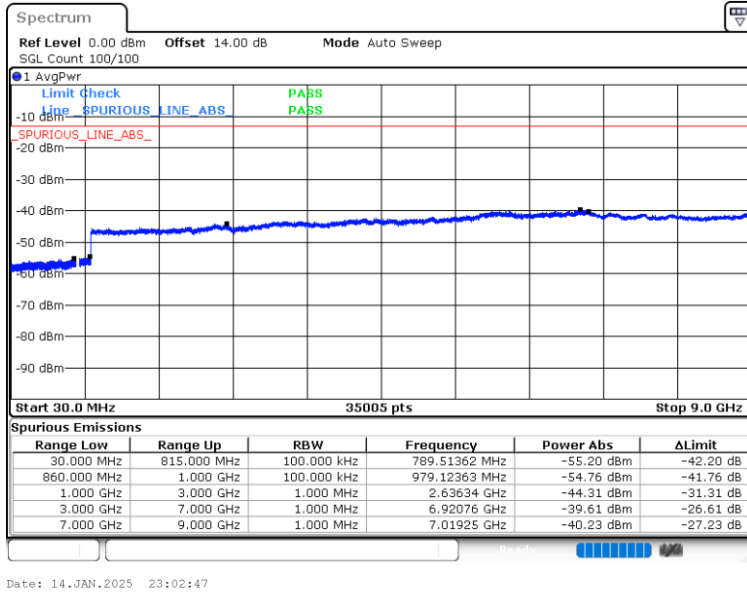
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

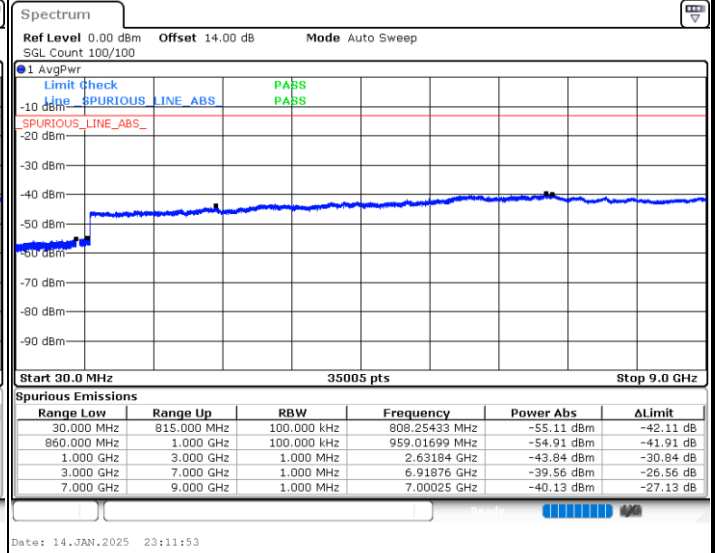
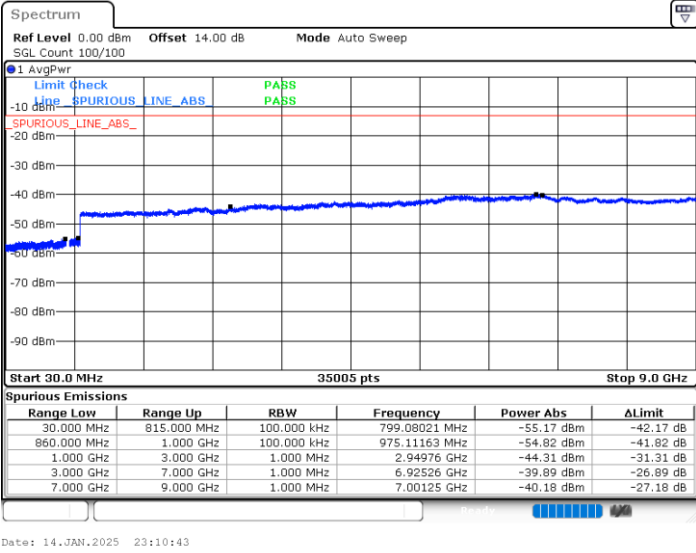




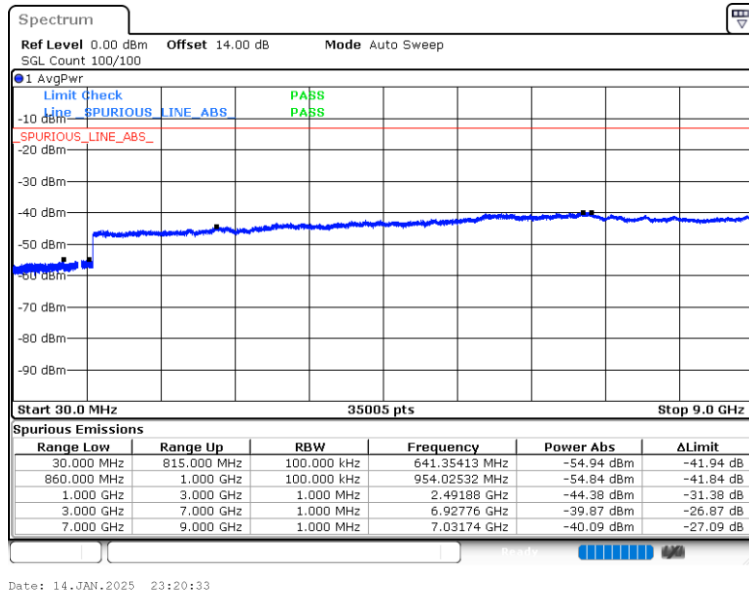
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

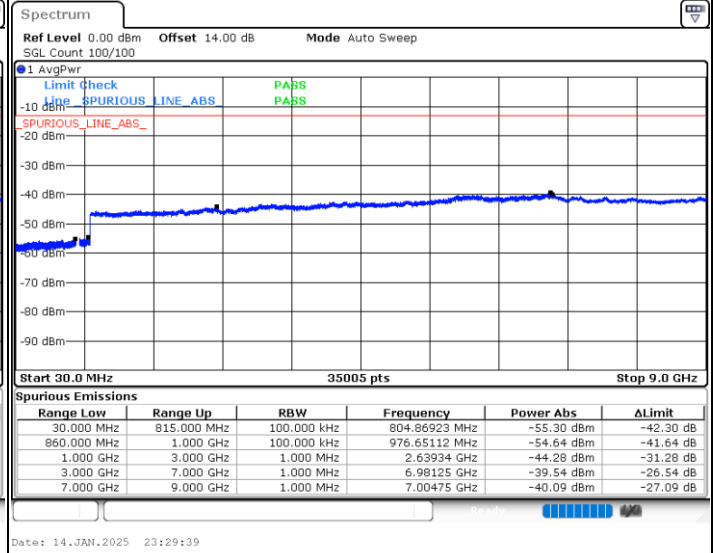
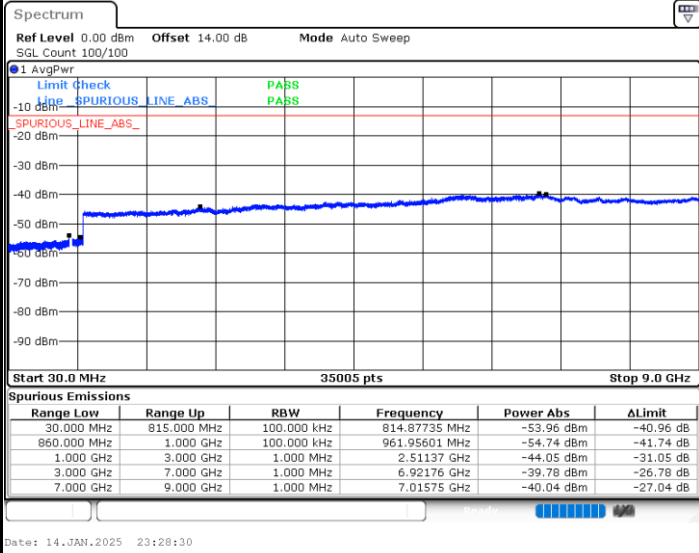




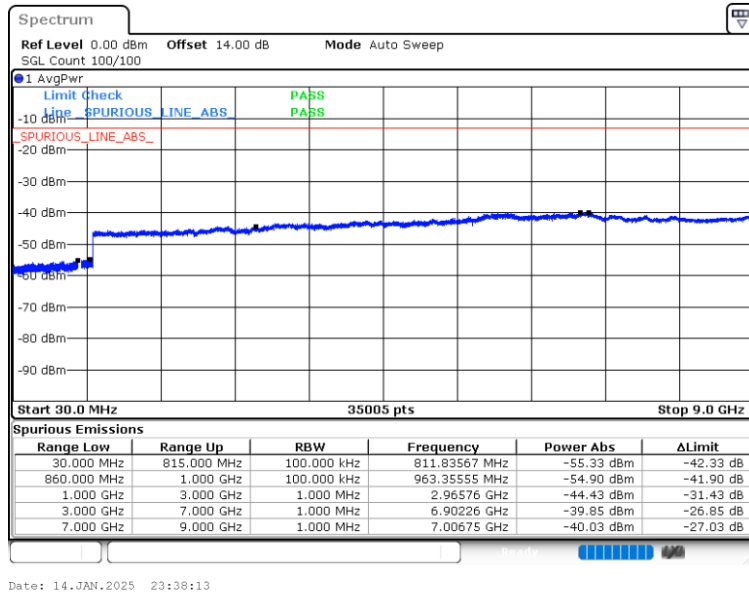
LTE Band 26 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

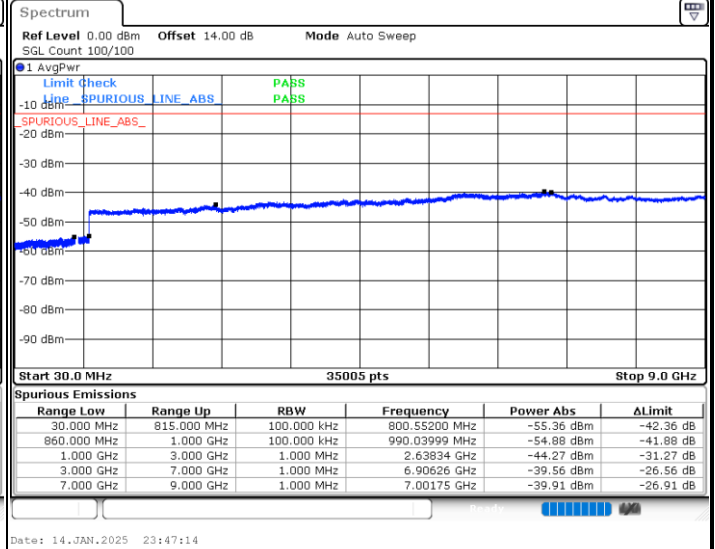
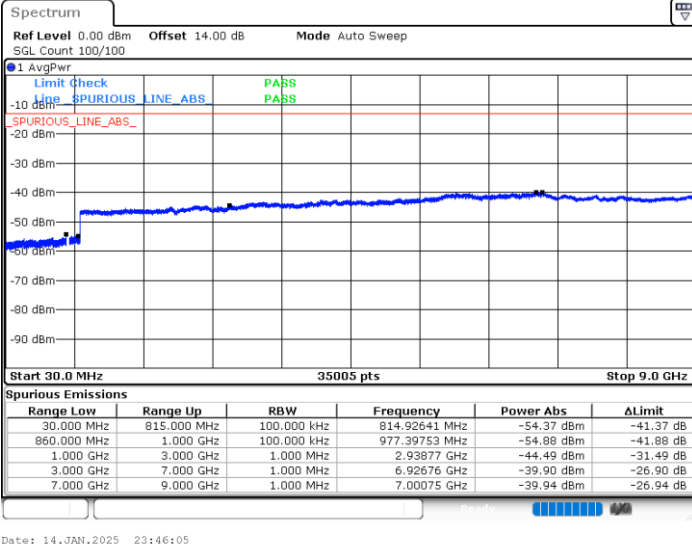




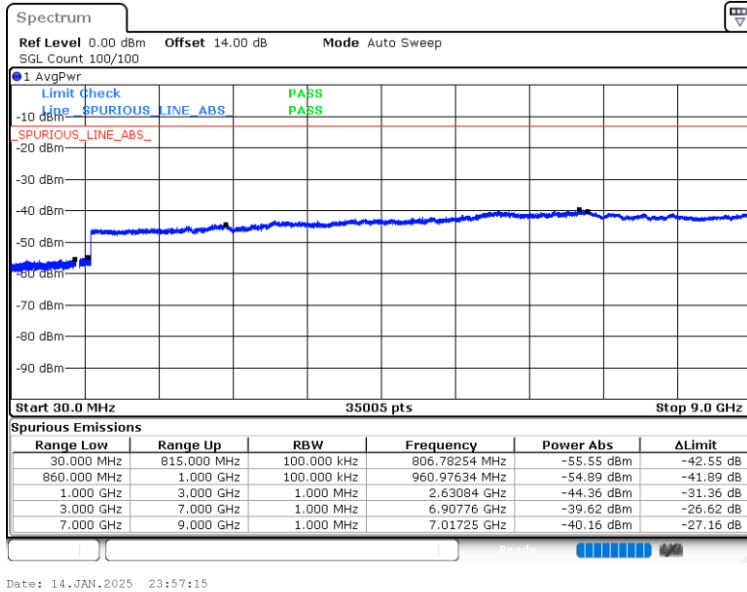
LTE Band 26 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	≤2.5ppm.
		Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

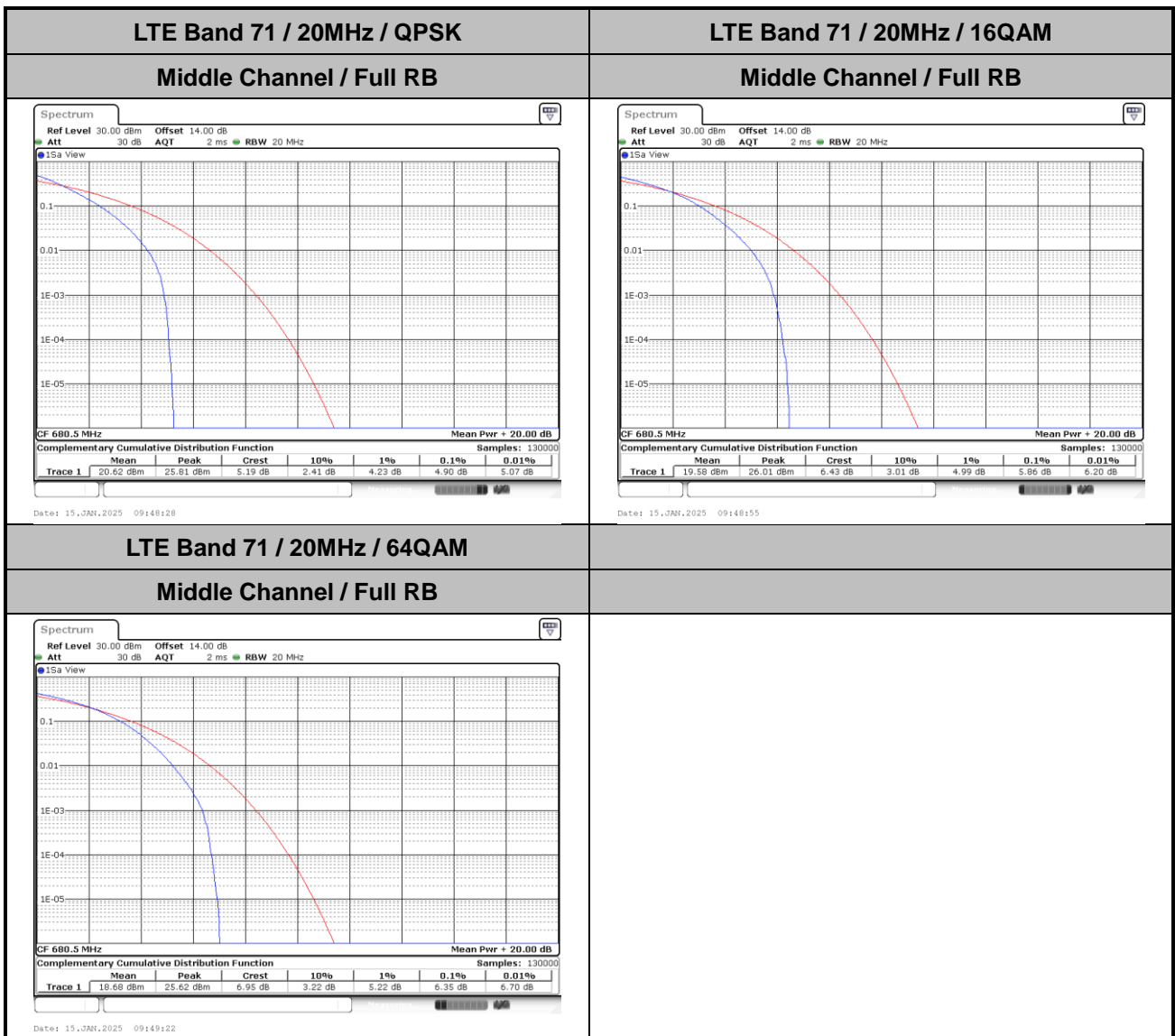
**Note:** Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.



# LTE Band 71

## Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.86	6.35	PASS





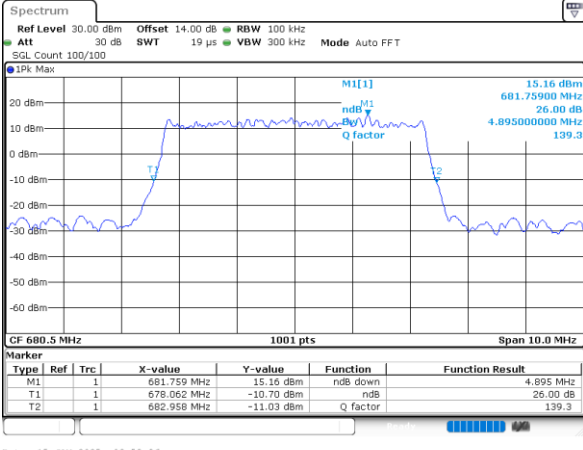
**26dB Bandwidth**

Mode	LTE Band 71 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.90	4.88	9.75	9.87	14.45	14.60	18.98	18.94



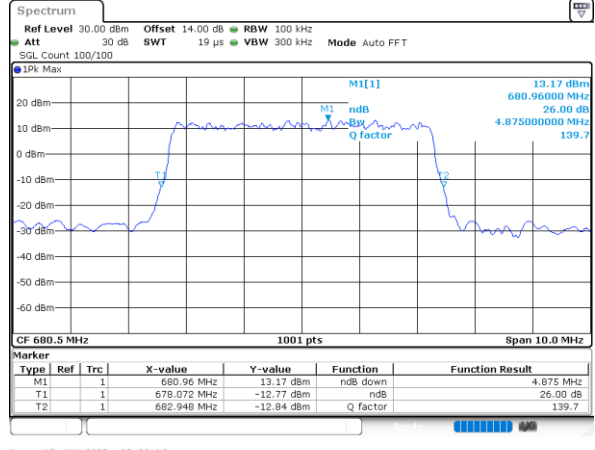
LTE Band 71

Middle Channel / 5MHz / QPSK



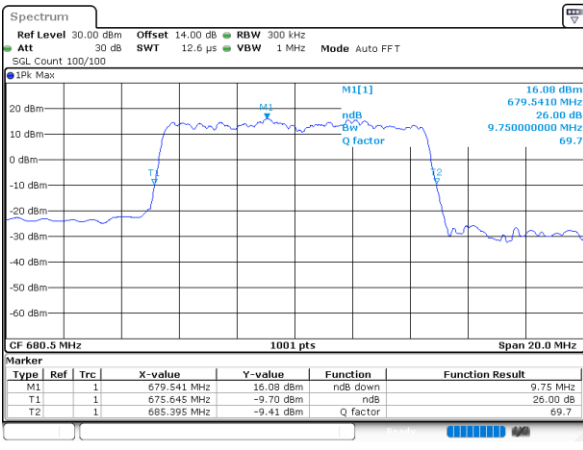
Date: 15\_JAN\_2025 09:59:36

Middle Channel / 5MHz / 16QAM



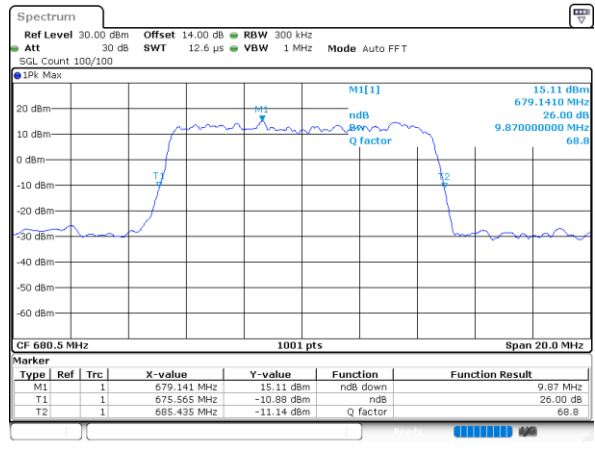
Date: 15\_JAN\_2025 09:00:16

Middle Channel / 10MHz / QPSK



Date: 15\_JAN\_2025 09:15:12

Middle Channel / 10MHz / 16QAM

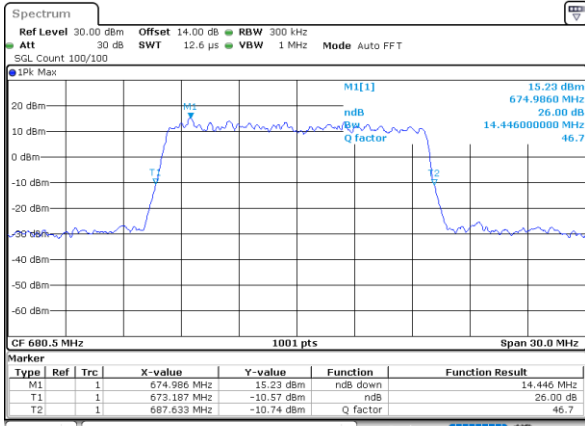


Date: 15\_JAN\_2025 09:15:52



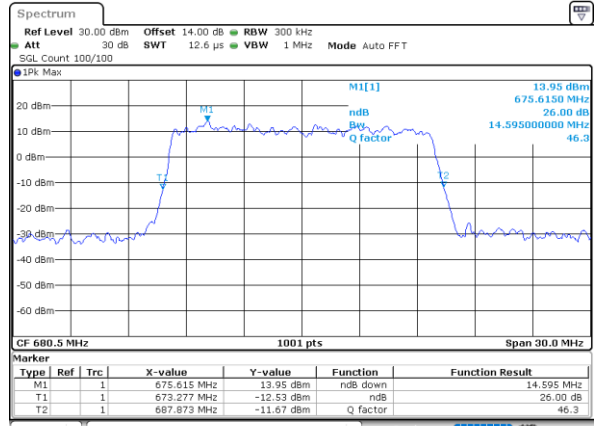
LTE Band 71

Middle Channel / 15MHz / QPSK



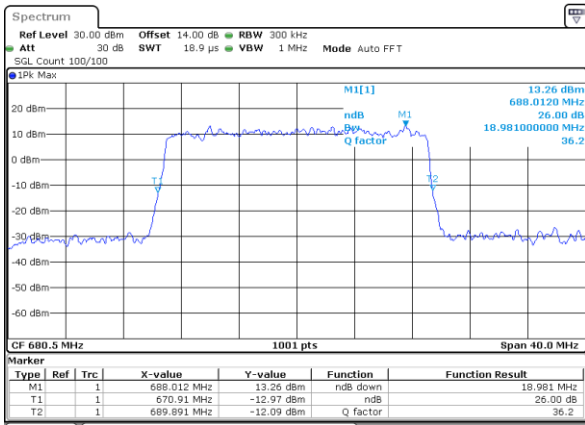
Date: 15\_JAN\_2025 09:31:04

Middle Channel / 15MHz / 16QAM



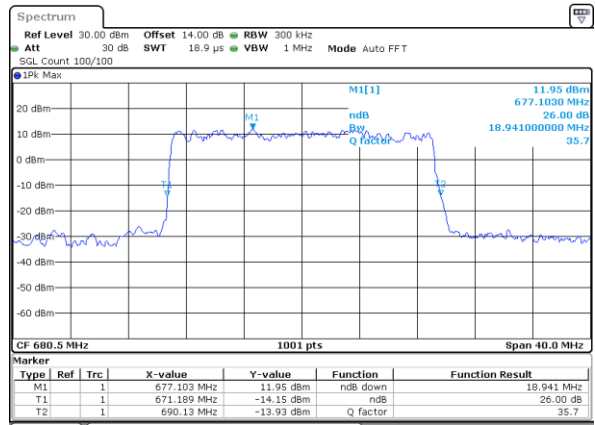
Date: 15\_JAN\_2025 09:31:43

Middle Channel / 20MHz / QPSK



Date: 15\_JAN\_2025 09:47:22

Middle Channel / 20MHz / 16QAM



Date: 15\_JAN\_2025 09:48:02



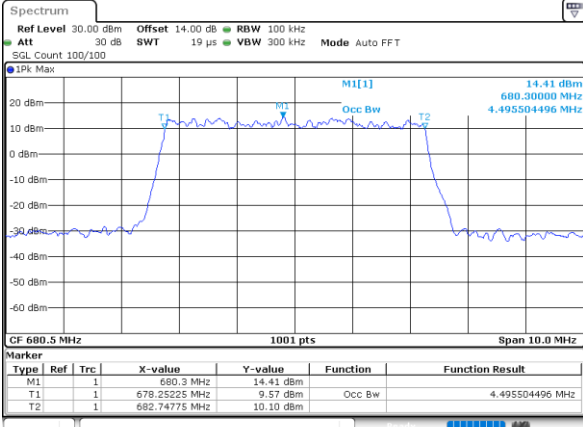
### Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.48	9.01	9.05	13.43	13.40	17.78	17.94



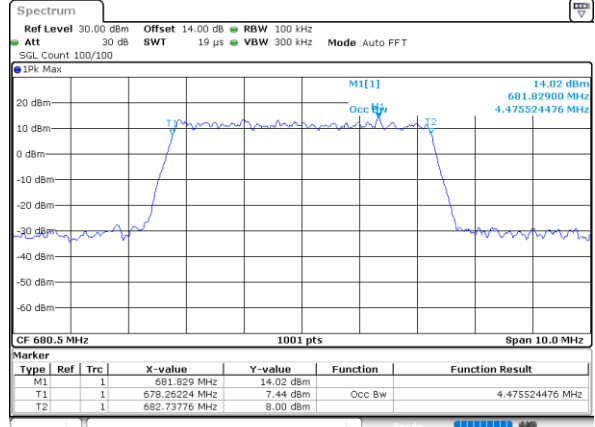
LTE Band 71

Middle Channel / 5MHz / QPSK



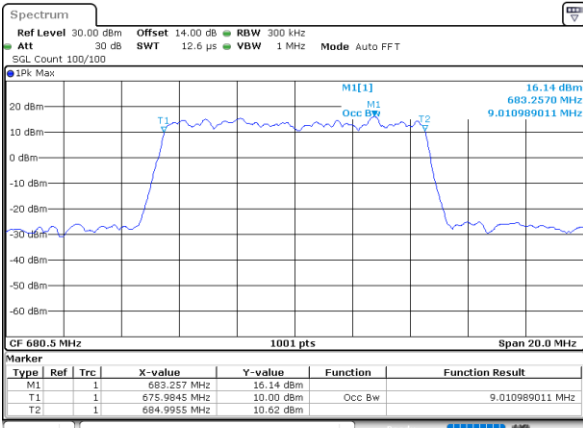
Date: 15\_JAN\_2025 09:59:22

Middle Channel / 5MHz / 16QAM



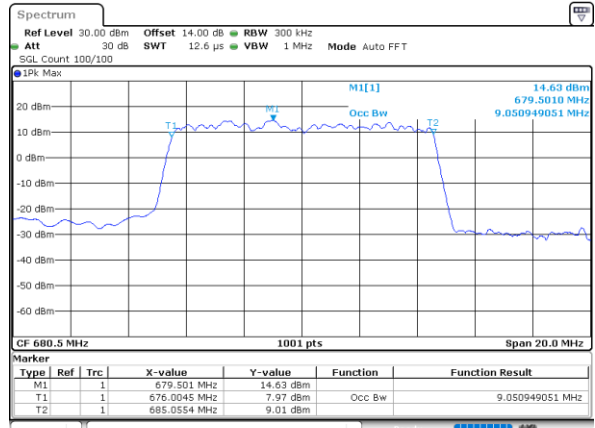
Date: 15\_JAN\_2025 09:00:02

Middle Channel / 10MHz / QPSK



Date: 15\_JAN\_2025 09:14:58

Middle Channel / 10MHz / 16QAM

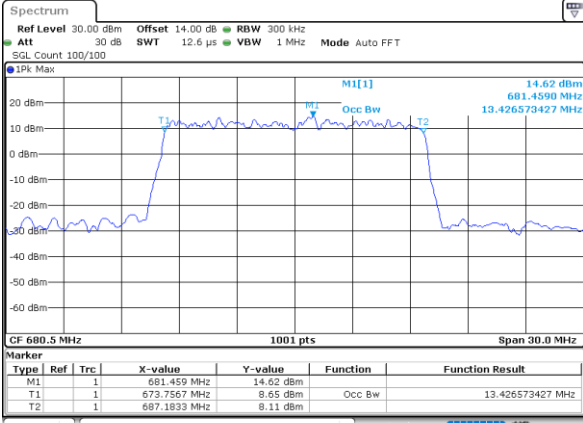


Date: 15\_JAN\_2025 09:15:38



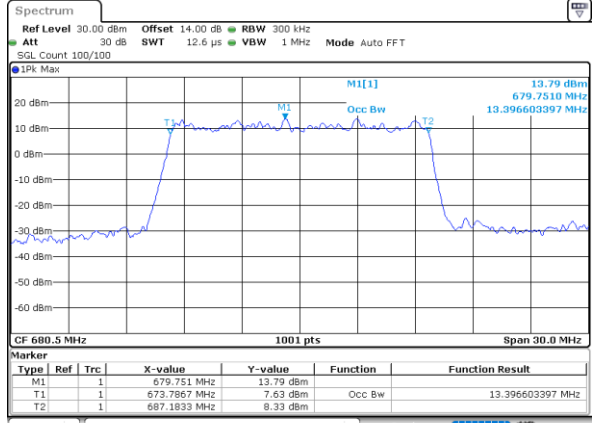
LTE Band 71

Middle Channel / 15MHz / QPSK



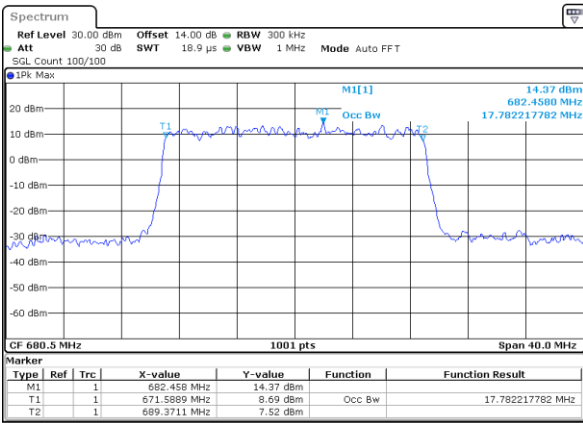
Date: 15\_JAN\_2025 09:30:50

Middle Channel / 15MHz / 16QAM



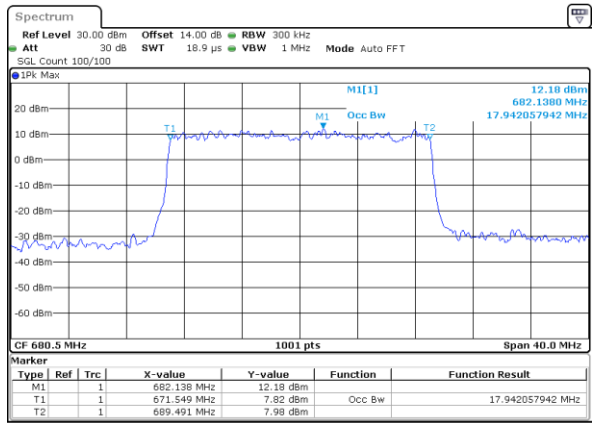
Date: 15\_JAN\_2025 09:31:29

Middle Channel / 20MHz / QPSK



Date: 15\_JAN\_2025 09:47:08

Middle Channel / 20MHz / 16QAM



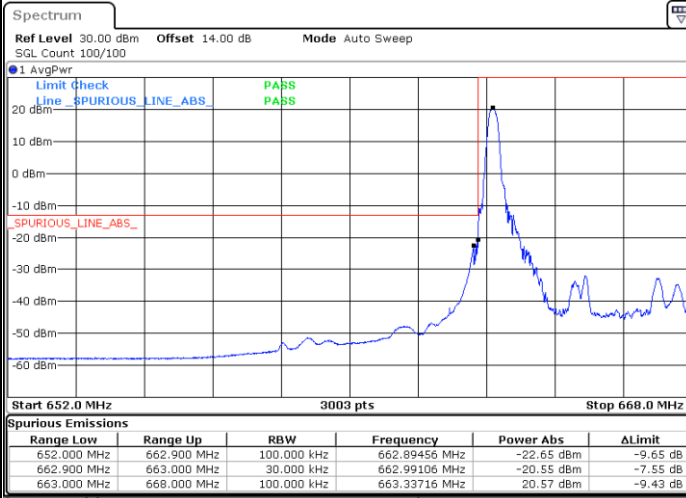
Date: 15\_JAN\_2025 09:47:48



# Conducted Band Edge

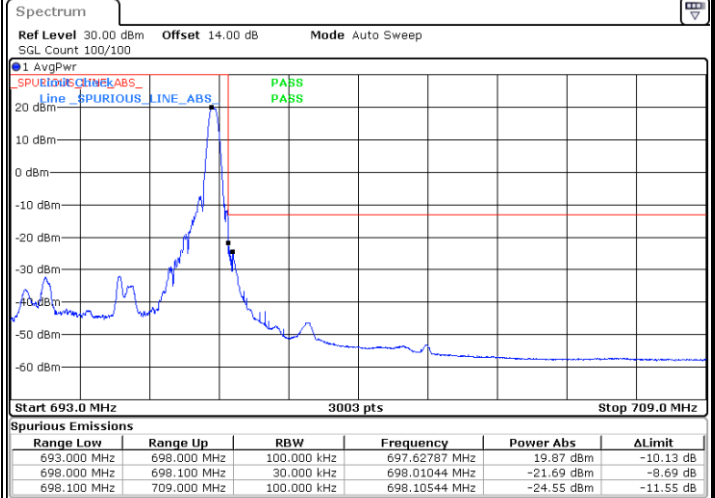
## LTE Band 71 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



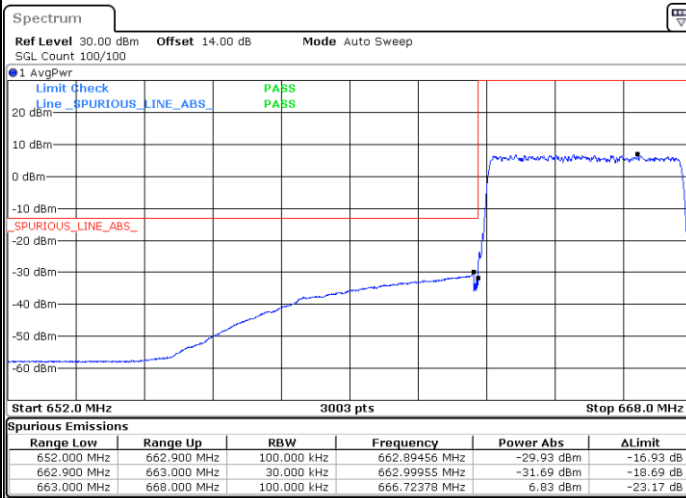
Date: 15.JAN.2025 08:52:04

### Highest Band Edge / 1 RB



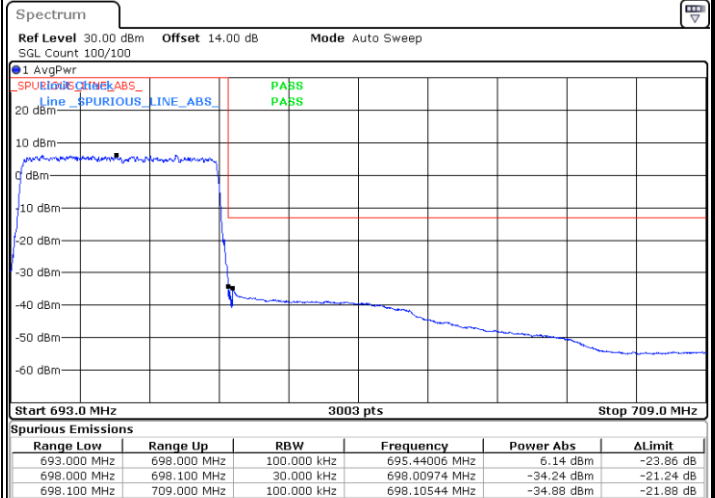
Date: 15.JAN.2025 09:01:05

### Lowest Band Edge / Full RB



Date: 15.JAN.2025 08:54:56

### Highest Band Edge / Full RB

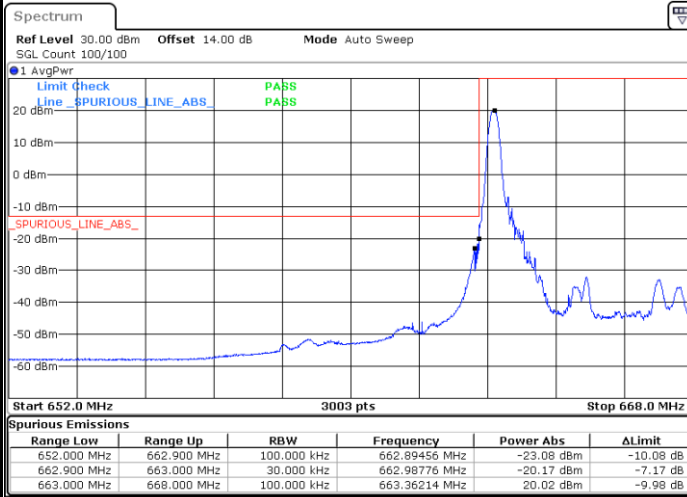


Date: 15.JAN.2025 09:03:37



LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1RB



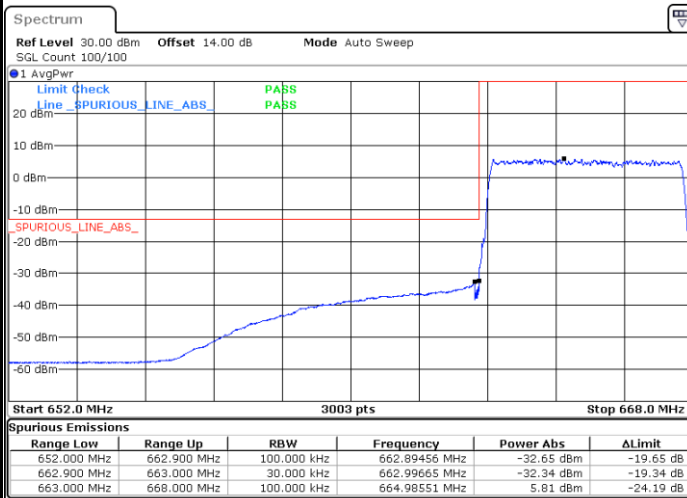
Date: 15.JAN.2025 08:53:05

Highest Band Edge / 1 RB



Date: 15.JAN.2025 09:01:56

Lowest Band Edge / Full RB



Date: 15.JAN.2025 08:55:46

Highest Band Edge / Full RB

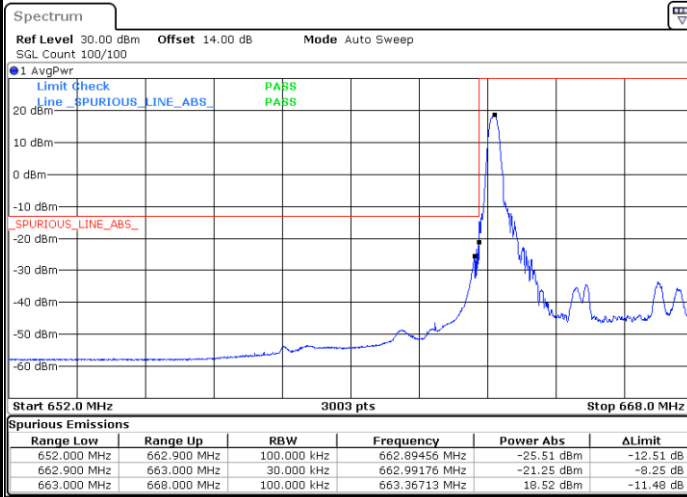


Date: 15.JAN.2025 09:04:27



LTE Band 71 / 5MHz / 64QAM

Lowest Band Edge / 1RB



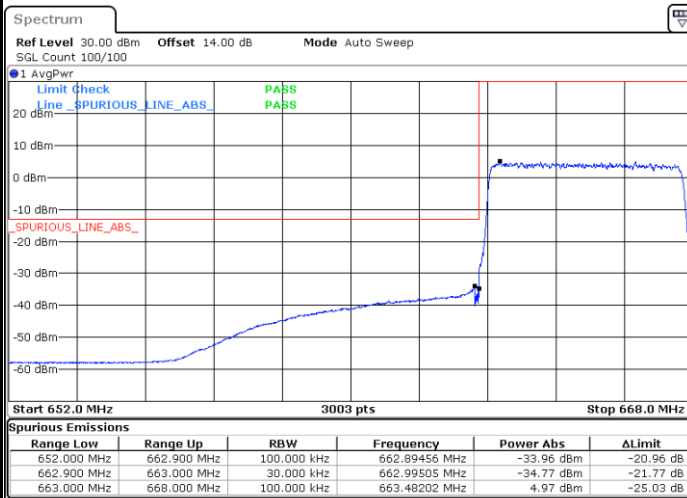
Date: 15.JAN.2025 08:54:05

Highest Band Edge / 1 RB



Date: 15.JAN.2025 09:02:46

Lowest Band Edge / Full RB



Date: 15.JAN.2025 08:56:37

Highest Band Edge / Full RB

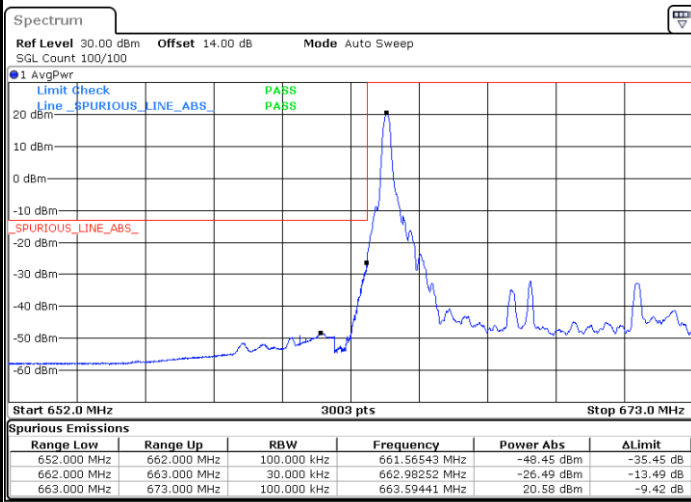


Date: 15.JAN.2025 09:05:18



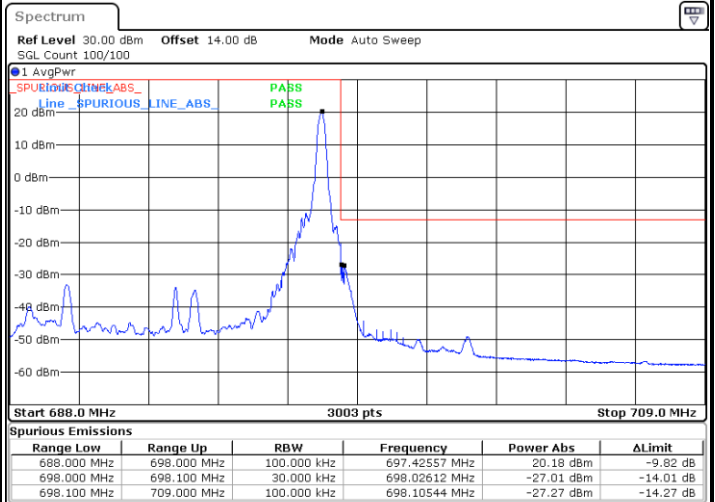
LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB



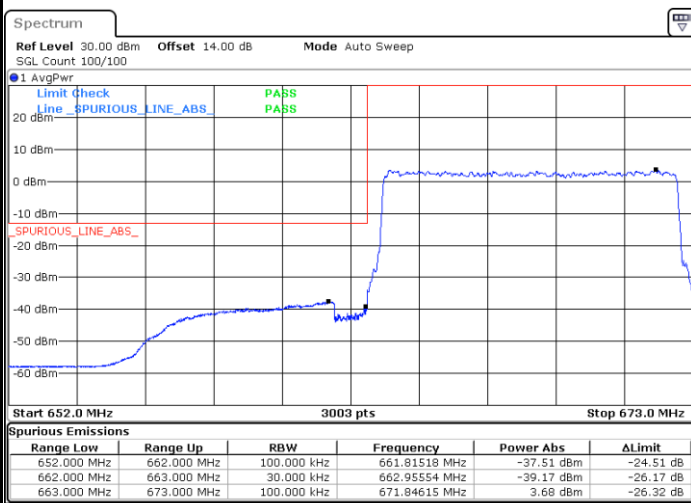
Date: 15.JAN.2025 09:08:01

Highest Band Edge / 1 RB



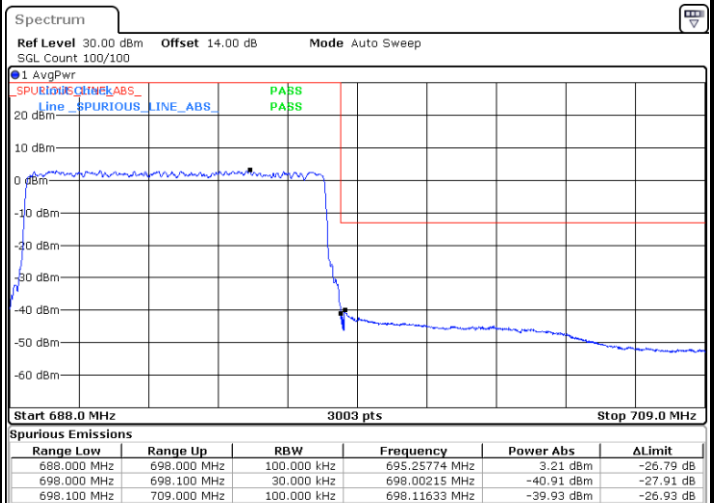
Date: 15.JAN.2025 09:16:42

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:10:33

Highest Band Edge / Full RB

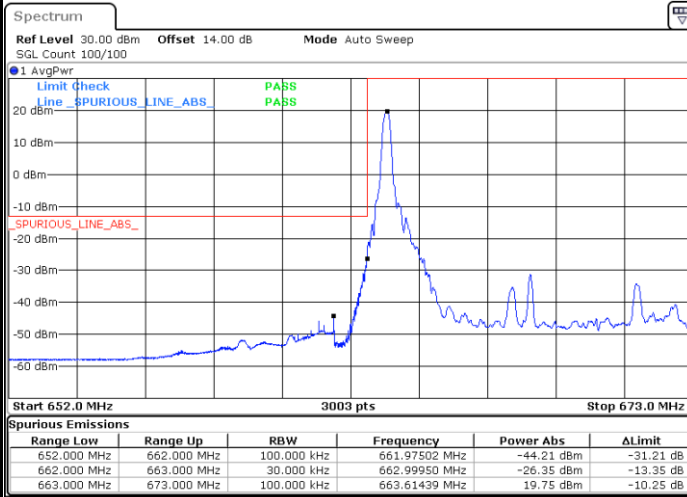


Date: 15.JAN.2025 09:19:16



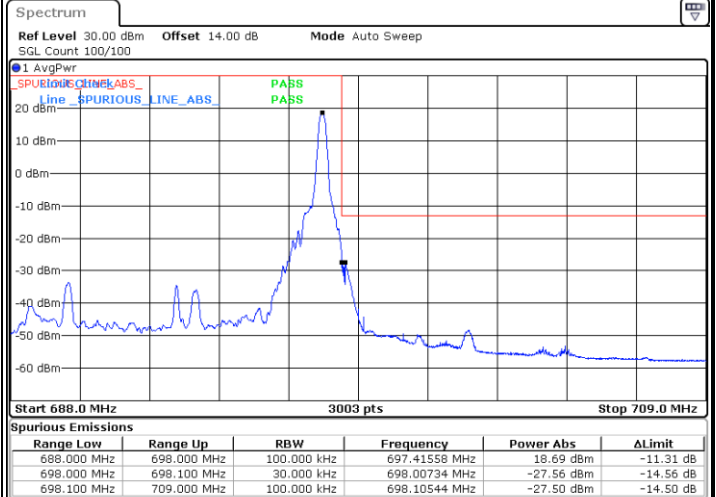
LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1RB



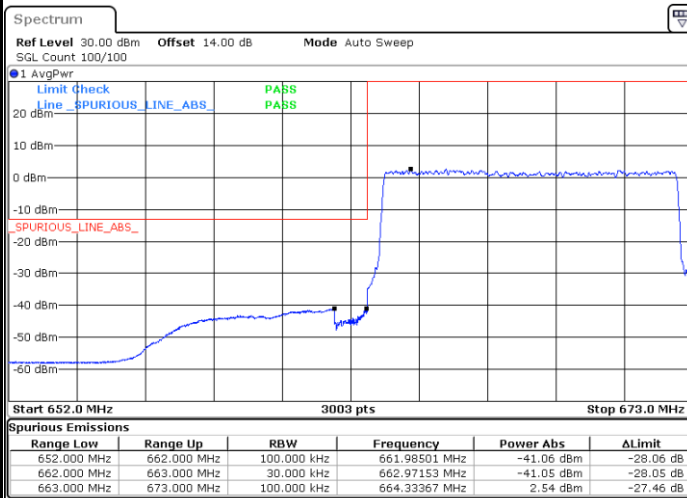
Date: 15.JAN.2025 09:08:51

Highest Band Edge / 1 RB



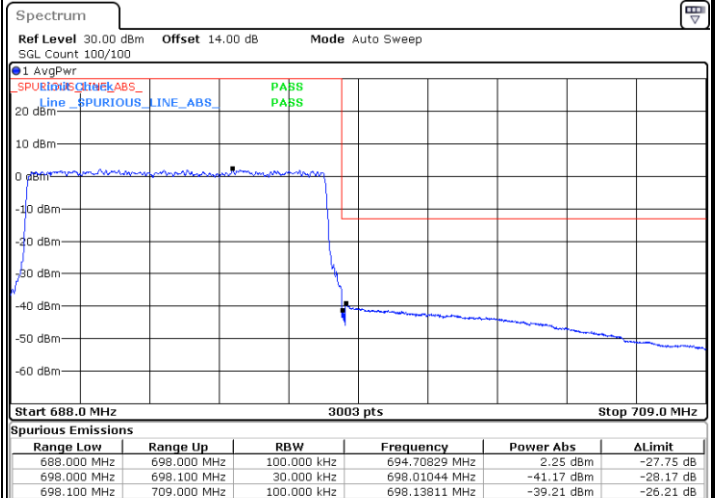
Date: 15.JAN.2025 09:17:33

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:11:23

Highest Band Edge / Full RB

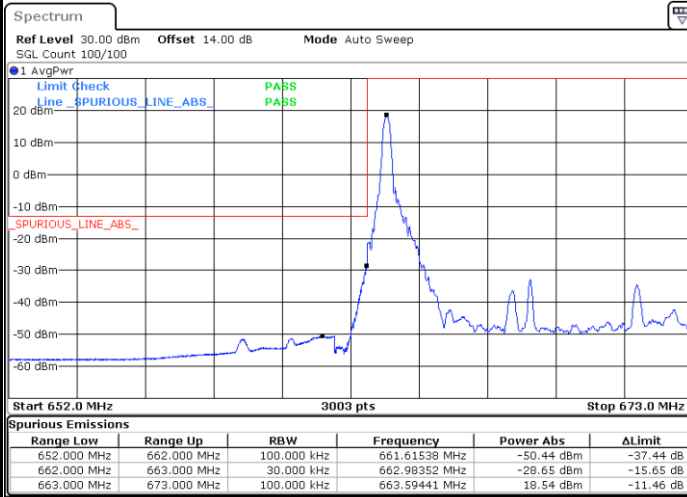


Date: 15.JAN.2025 09:20:07



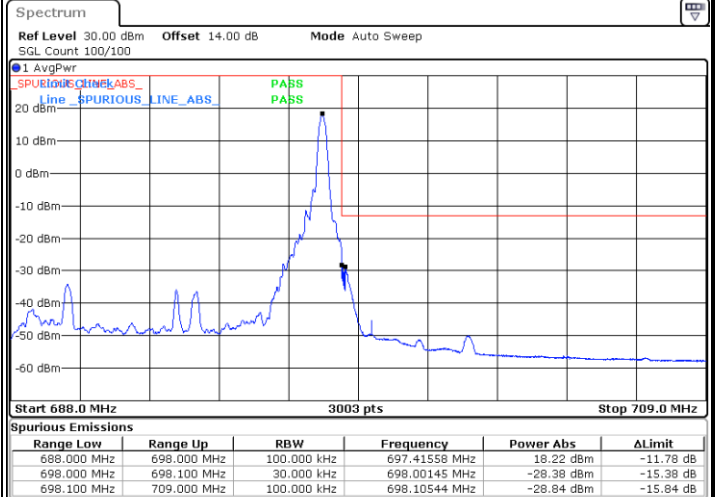
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1RB



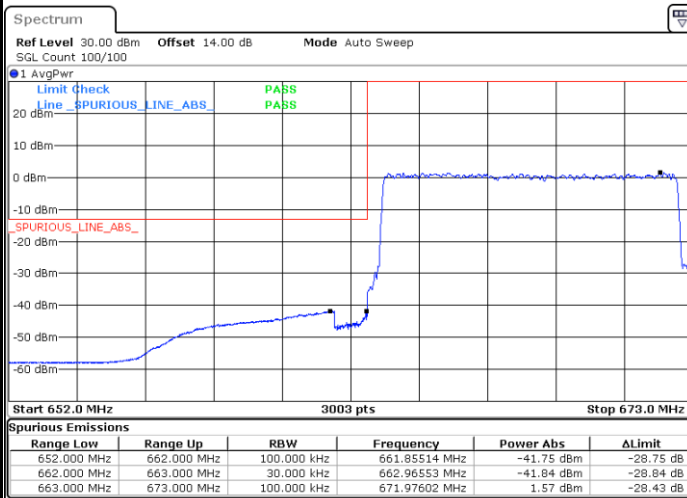
Date: 15.JAN.2025 09:09:42

Highest Band Edge / 1 RB



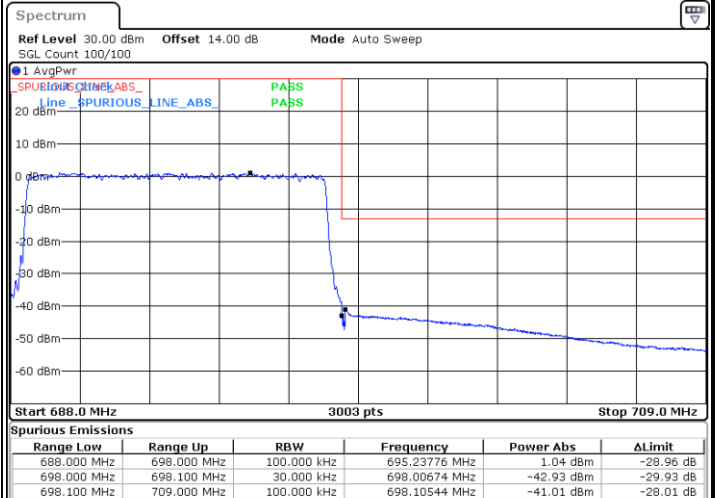
Date: 15.JAN.2025 09:18:24

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:12:13

Highest Band Edge / Full RB

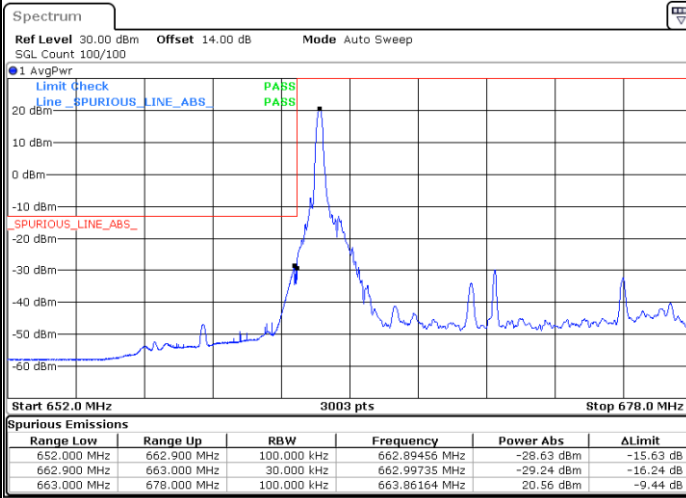


Date: 15.JAN.2025 09:20:58



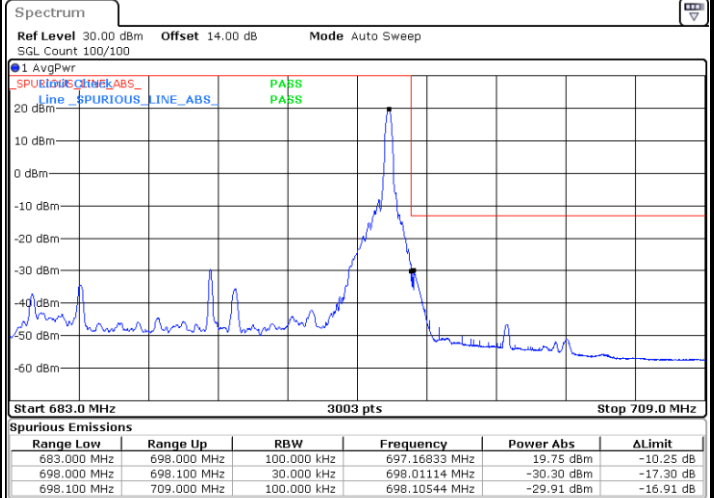
LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB



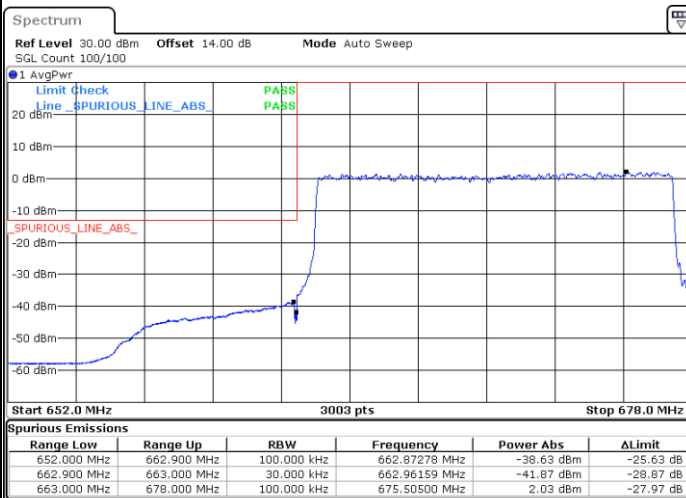
Date: 15.JAN.2025 09:23:48

Highest Band Edge / 1 RB



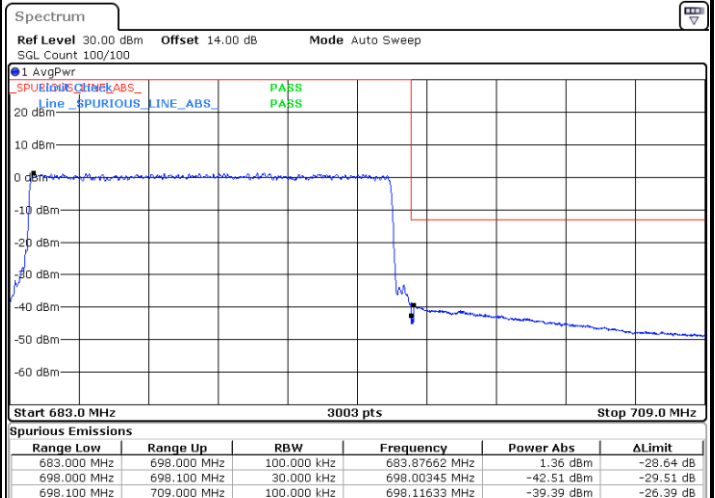
Date: 15.JAN.2025 09:32:33

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:26:20

Highest Band Edge / Full RB

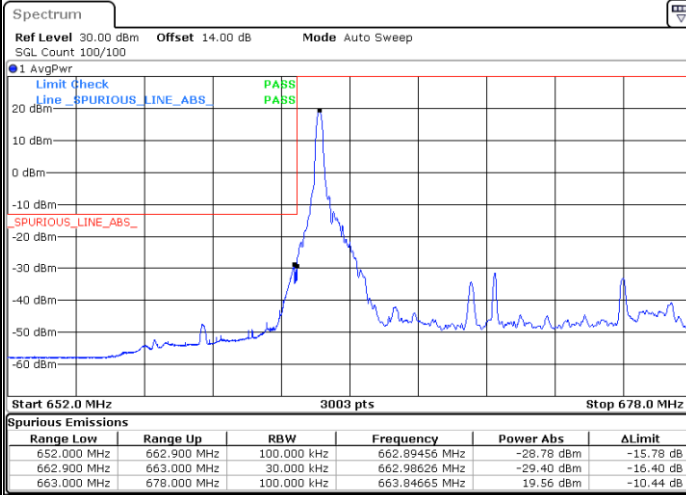


Date: 15.JAN.2025 09:35:10



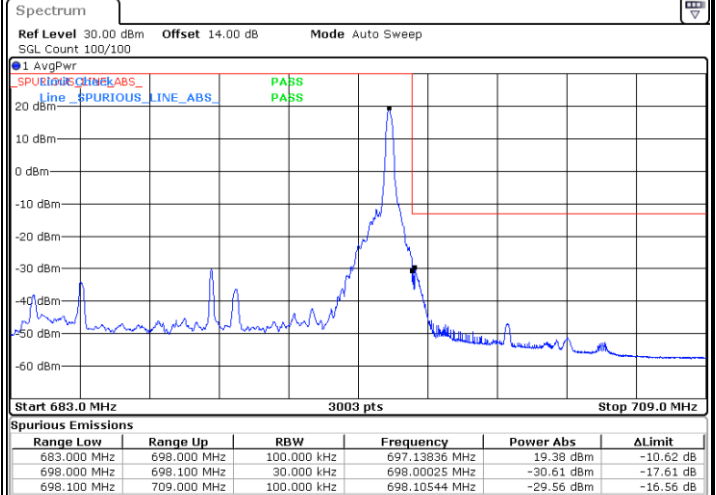
LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1RB



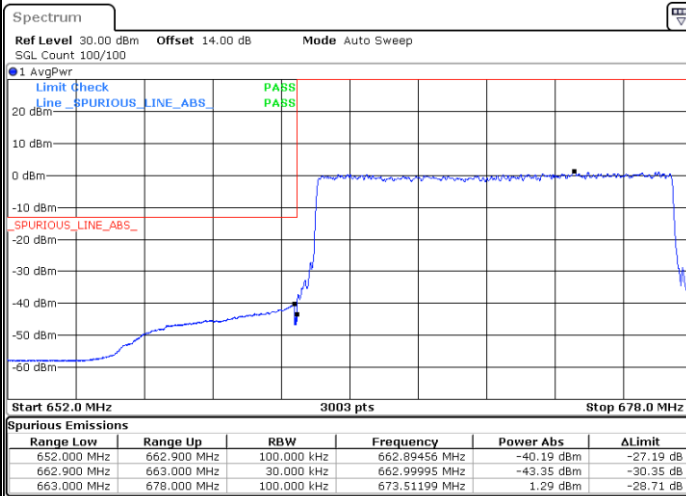
Date: 15.JAN.2025 09:24:39

Highest Band Edge / 1 RB



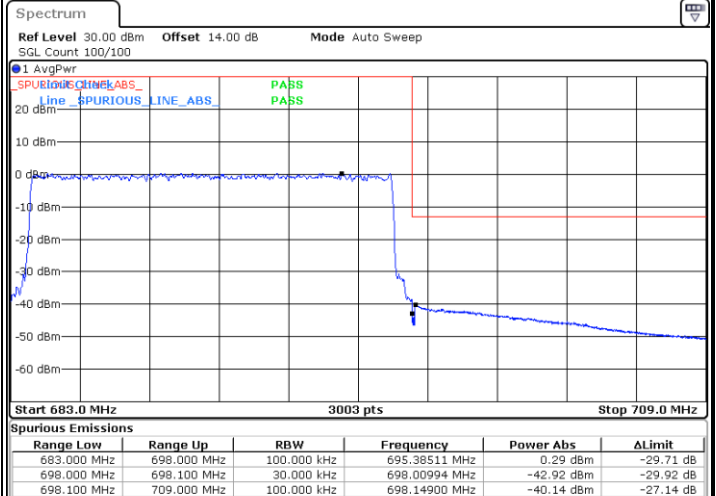
Date: 15.JAN.2025 09:33:28

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:27:14

Highest Band Edge / Full RB

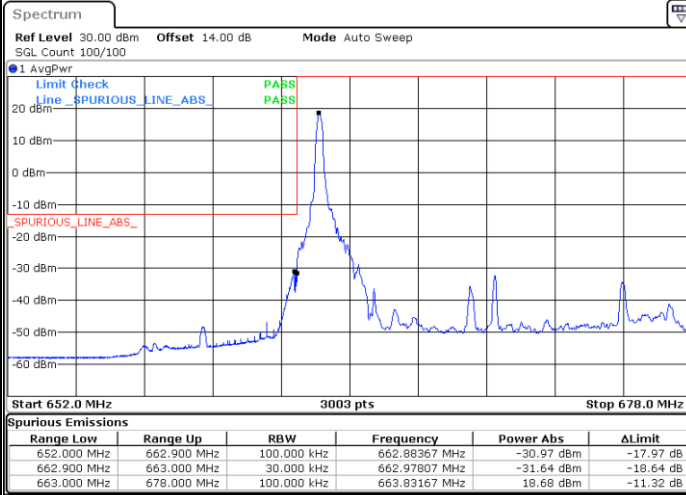


Date: 15.JAN.2025 09:36:01



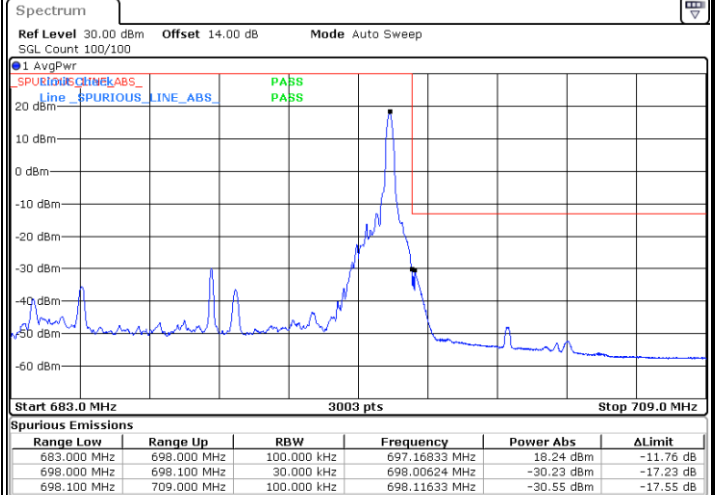
LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1RB



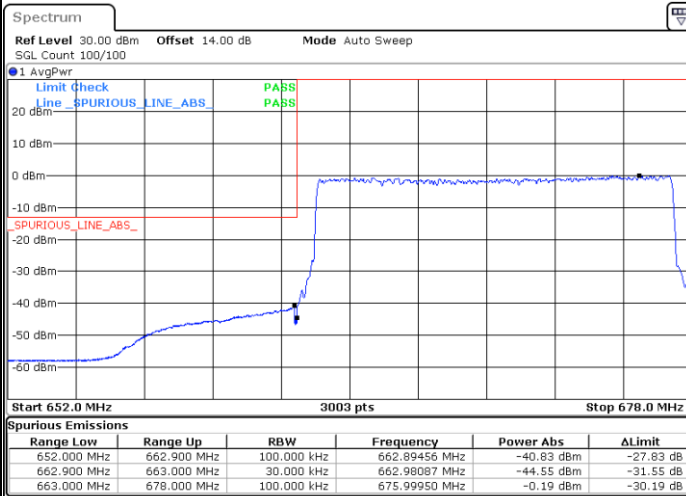
Date: 15.JAN.2025 09:25:29

Highest Band Edge / 1 RB



Date: 15.JAN.2025 09:34:19

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:28:05

Highest Band Edge / Full RB

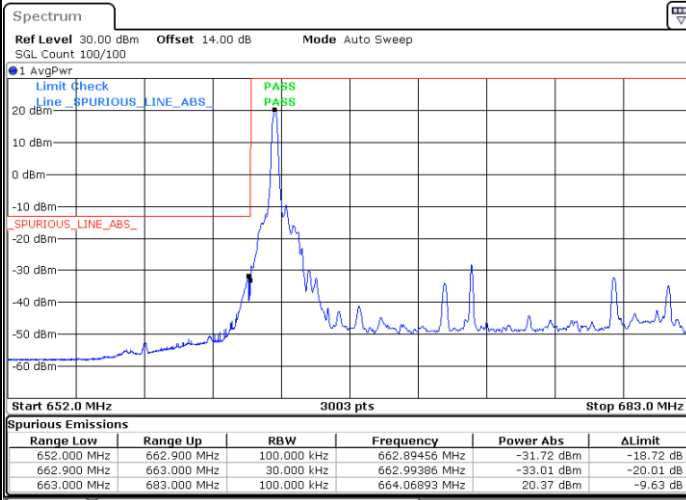


Date: 15.JAN.2025 09:36:52



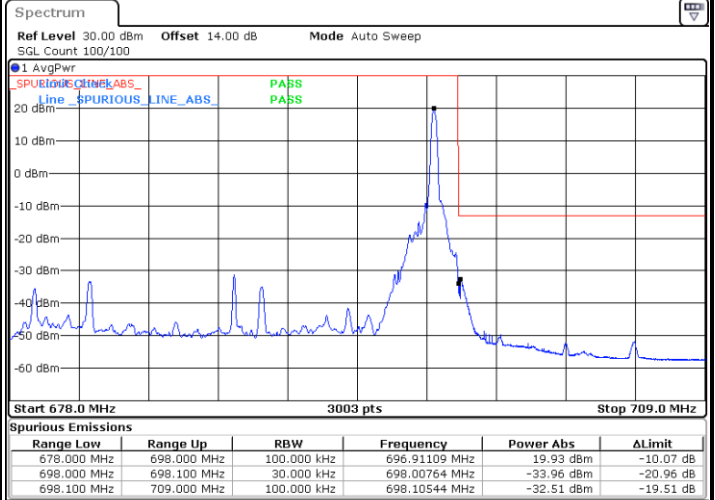
LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB



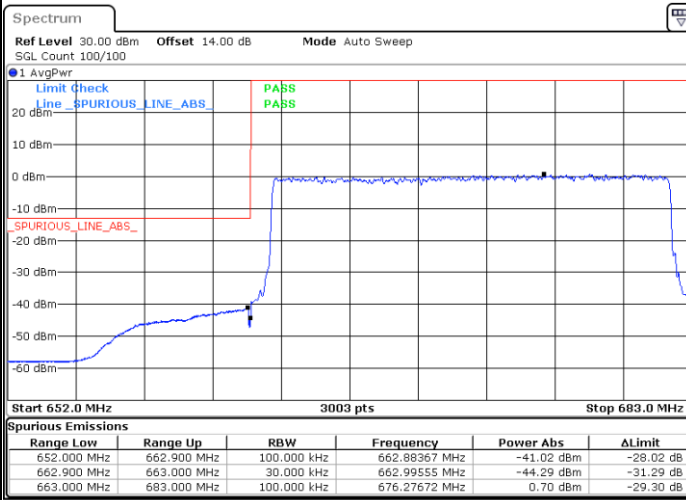
Date: 15.JAN.2025 09:40:08

Highest Band Edge / 1 RB



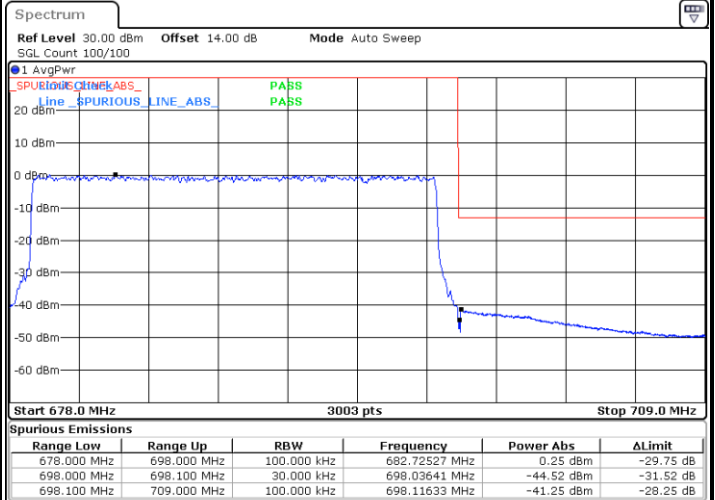
Date: 15.JAN.2025 09:50:13

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:42:42

Highest Band Edge / Full RB

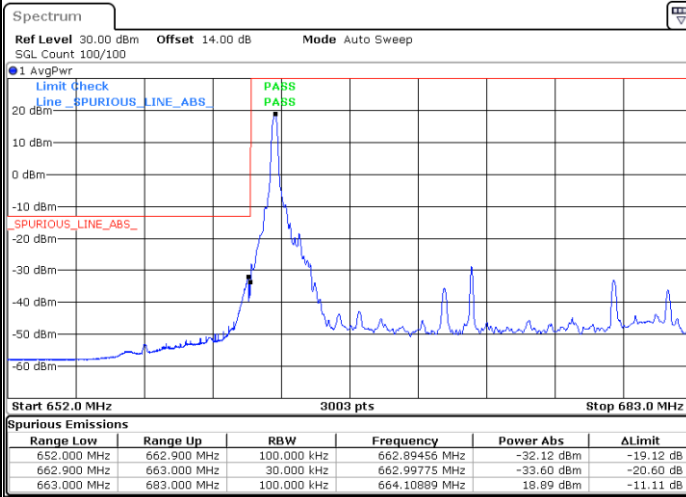


Date: 15.JAN.2025 09:53:53



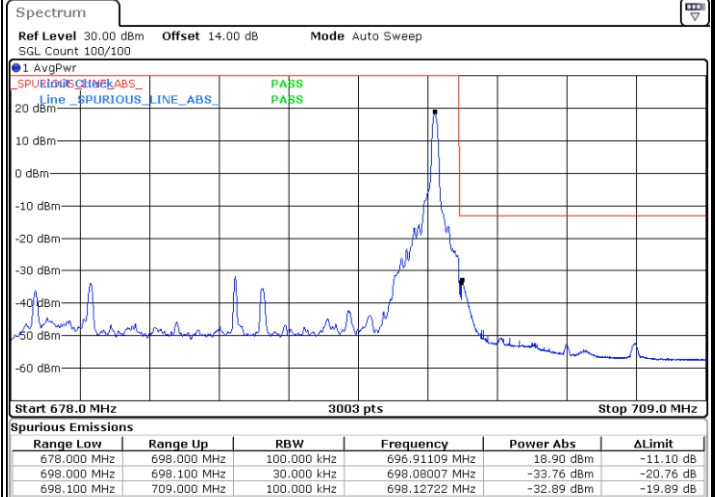
LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1RB



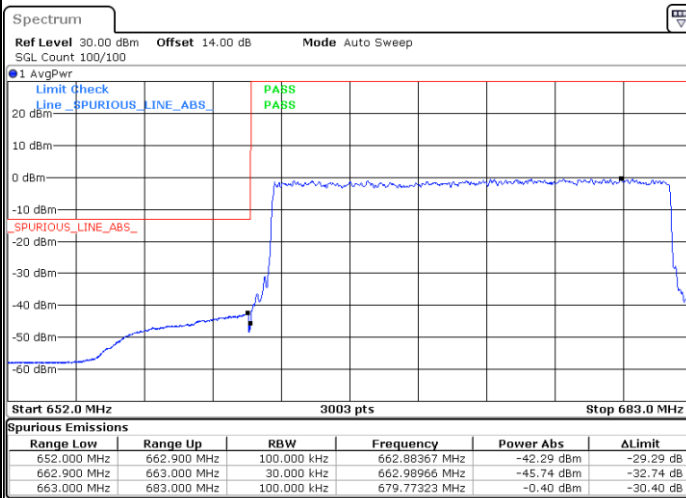
Date: 15.JAN.2025 09:40:58

Highest Band Edge / 1 RB



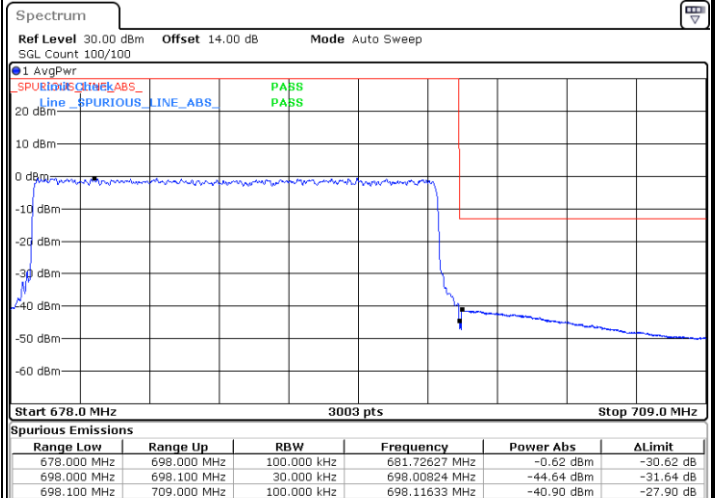
Date: 15.JAN.2025 09:51:04

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:43:33

Highest Band Edge / Full RB

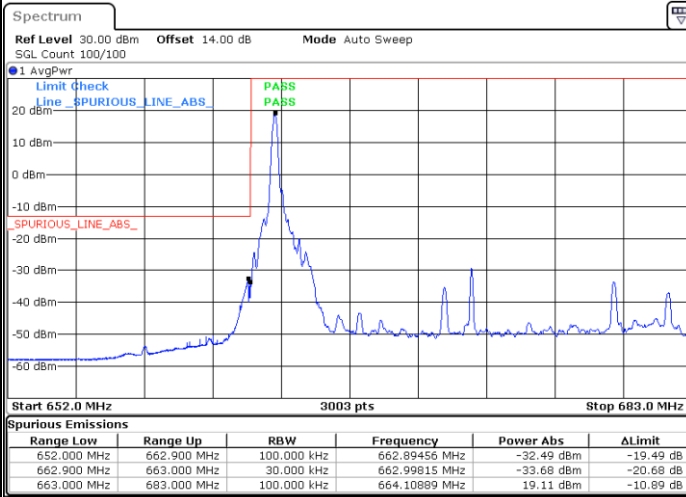


Date: 15.JAN.2025 09:56:50



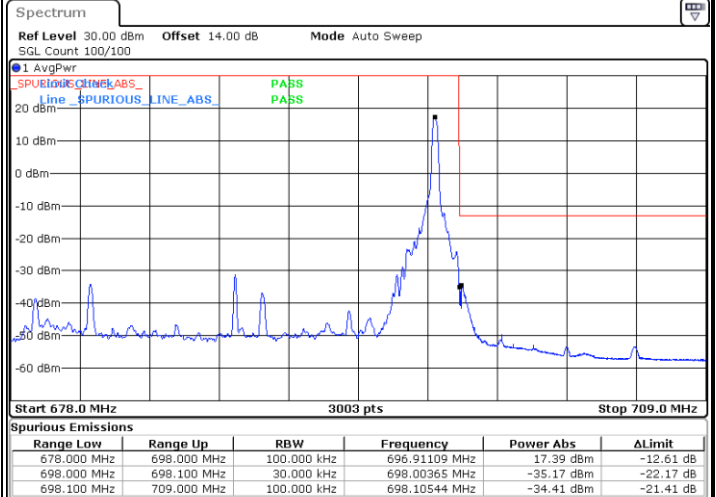
LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1RB



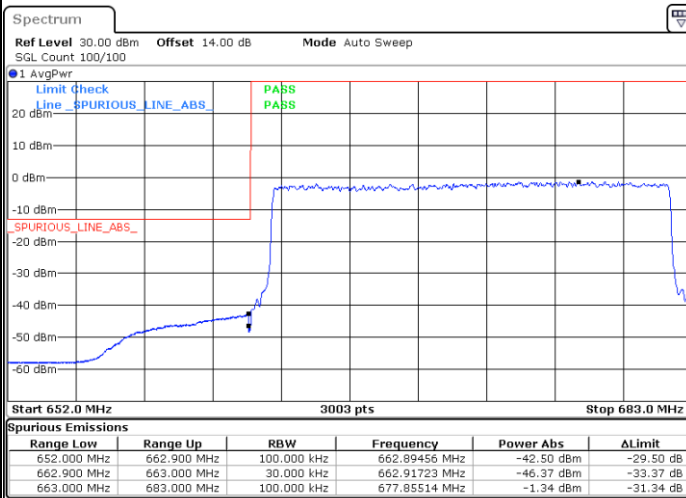
Date: 15.JAN.2025 09:41:49

Highest Band Edge / 1 RB



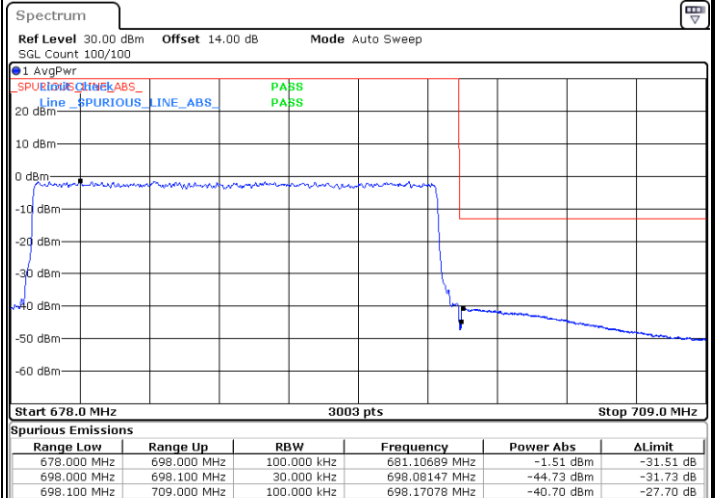
Date: 15.JAN.2025 09:51:55

Lowest Band Edge / Full RB



Date: 15.JAN.2025 09:44:23

Highest Band Edge / Full RB



Date: 15.JAN.2025 09:57:57

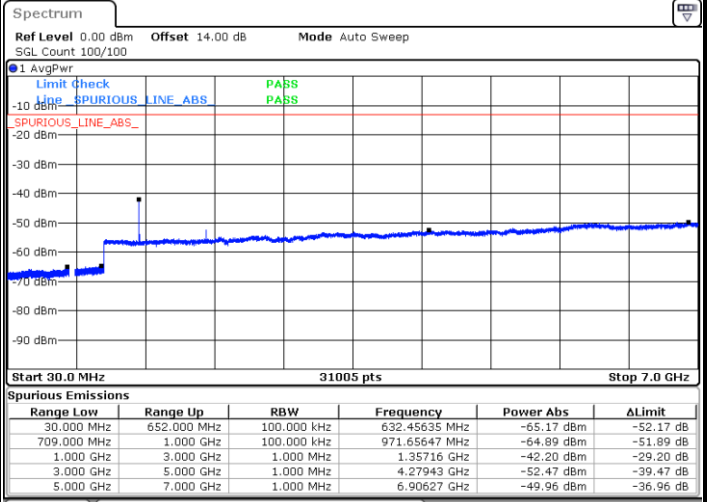
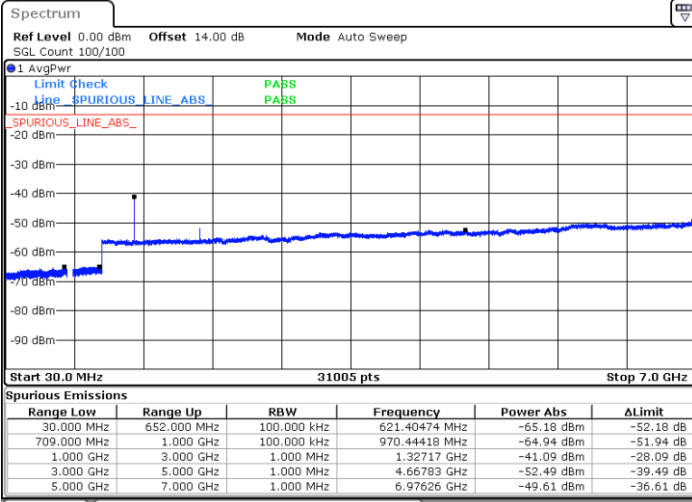


# Conducted Spurious Emission

## LTE Band 71 / 5MHz

### Lowest Channel / QPSK

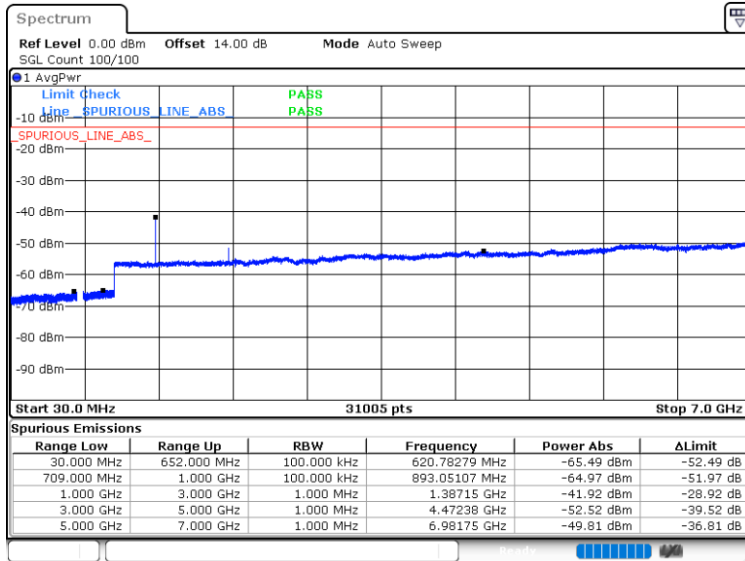
### Middle Channel / QPSK



Date: 15.JAN.2025 08:57:47

Date: 15.JAN.2025 08:58:56

### Highest Channel / QPSK



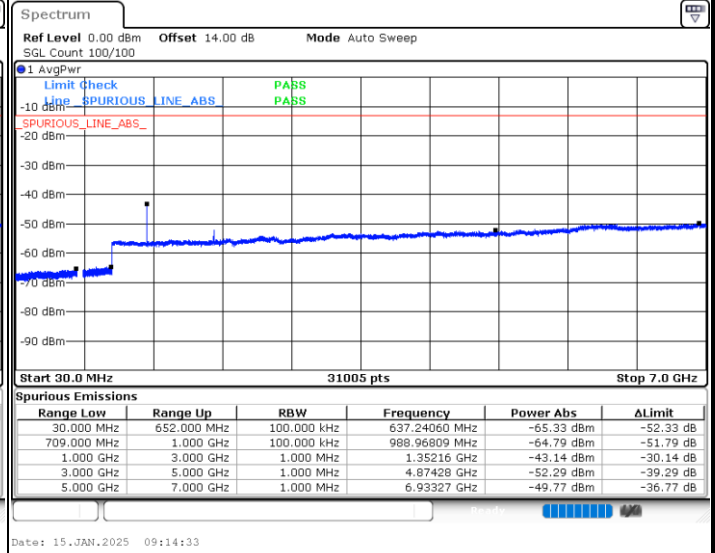
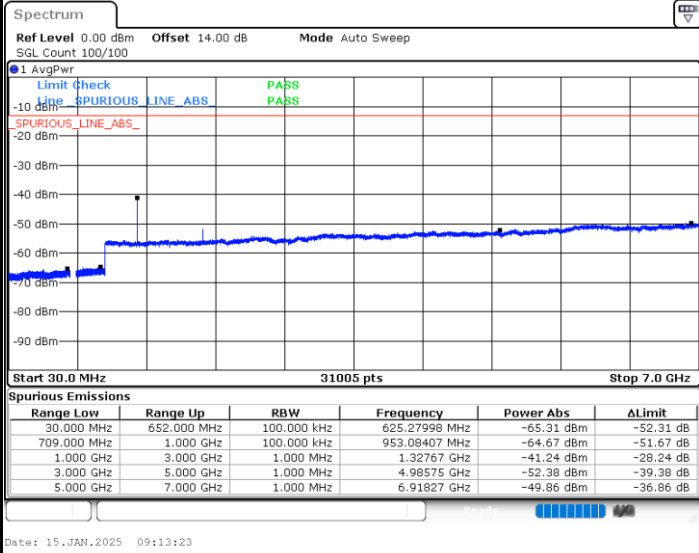
Date: 15.JAN.2025 09:06:28



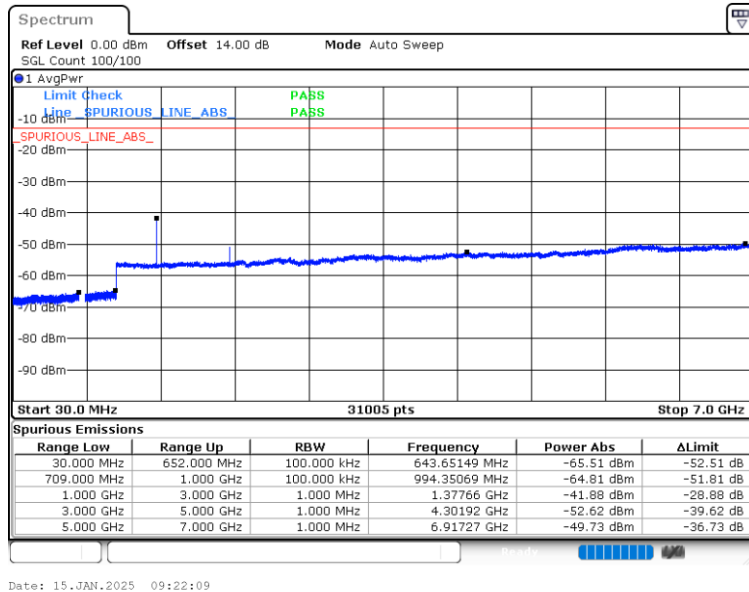
LTE Band 71 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

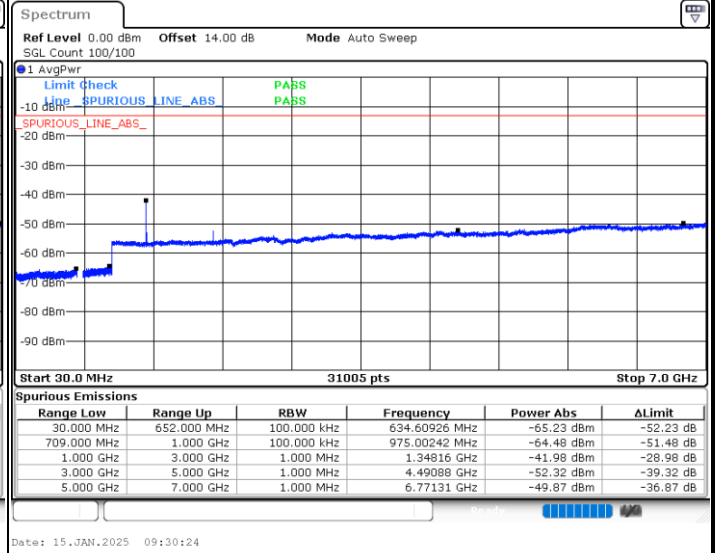
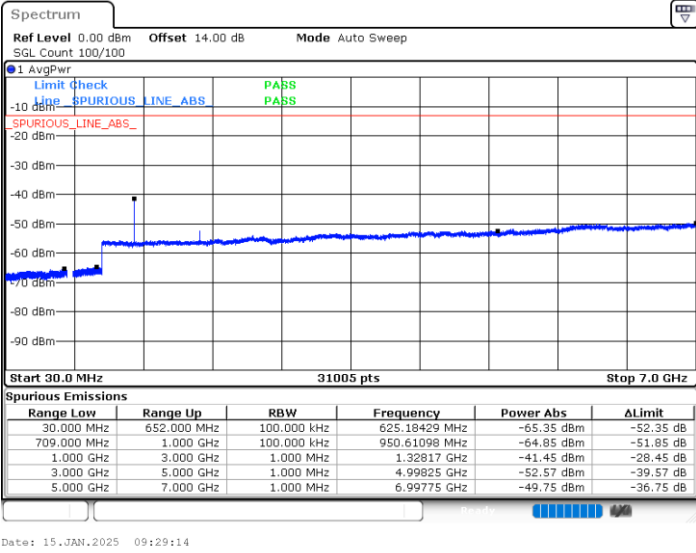




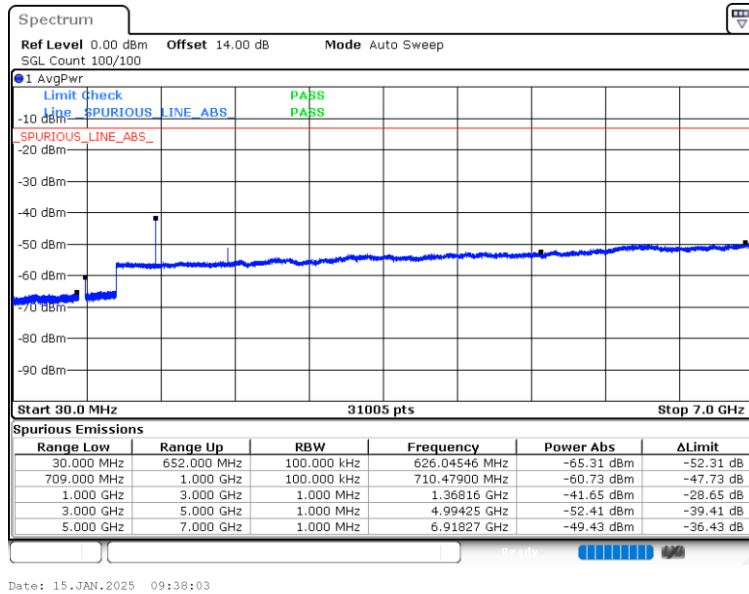
LTE Band 71 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

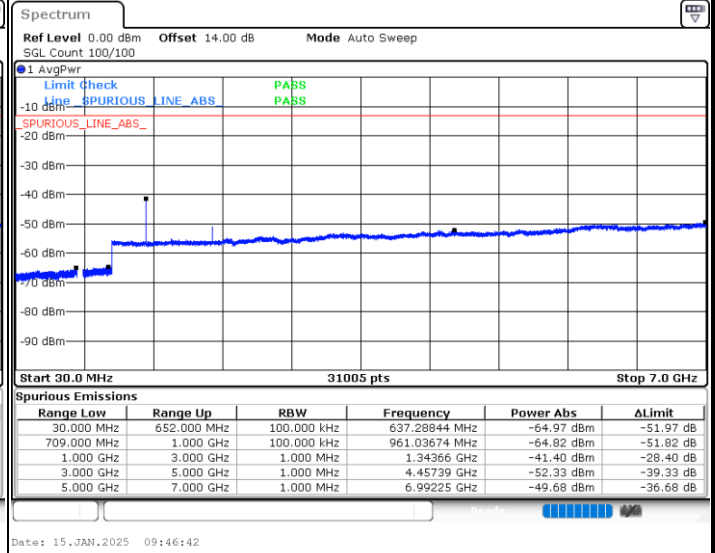
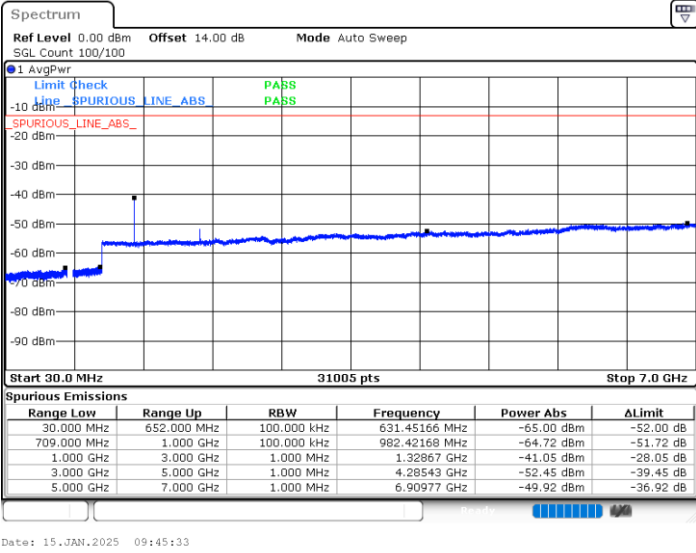




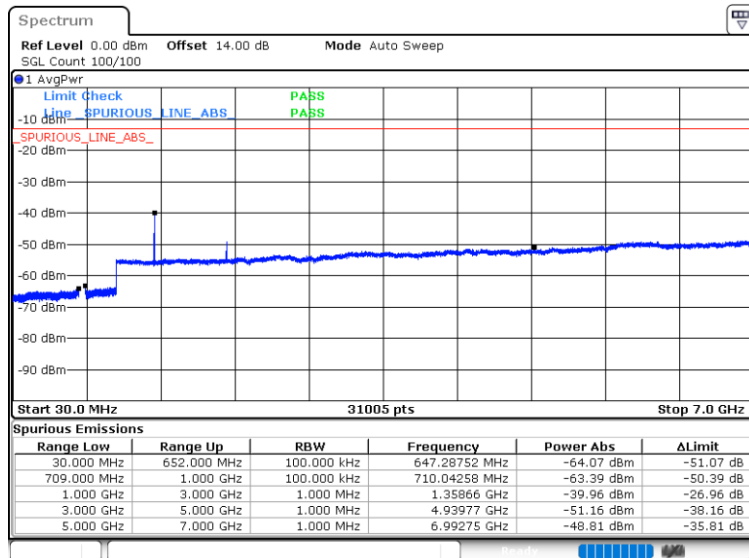
LTE Band 71 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset ( $\Delta f$ ) (Hz)	Result
50	Normal Voltage	1.5	PASS
40	Normal Voltage	2.3	
30	Normal Voltage	1.9	
20(Ref.)	Normal Voltage	2.5	
10	Normal Voltage	1.8	
0	Normal Voltage	-3.2	
-10	Normal Voltage	2.7	
-20	Normal Voltage	3.3	
-30	Normal Voltage	3.5	
20	Maximum Voltage	2.6	
20	Normal Voltage	2.5	
20	Battery End Point	2.9	

**Note:**

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$MAX(\Delta f) = 3.5\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  MAX(\Delta f) $	663.252497	$\geq 663 \text{ MHz}$	PASS
$f_H +  MAX(\Delta f) $	697.747754	$\leq 698 \text{ MHz}$	



## LTE Band 5B

### 26dB Bandwidth

Mode	LTE Band 5B : 26dB BW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.17	8.10	14.57
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.60	19.70	-

Mode	LTE Band 5B : 26dB BW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.14	8.20	14.51
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.54	19.58	-