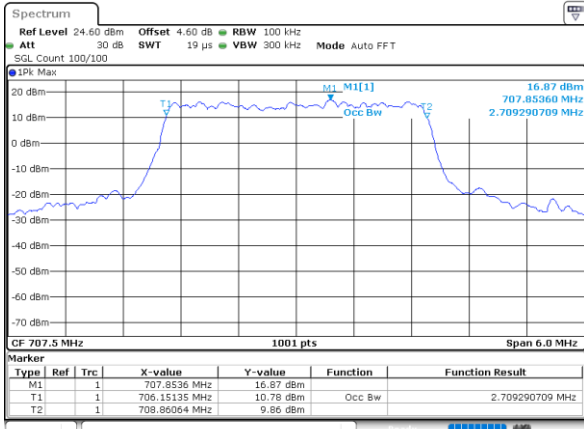




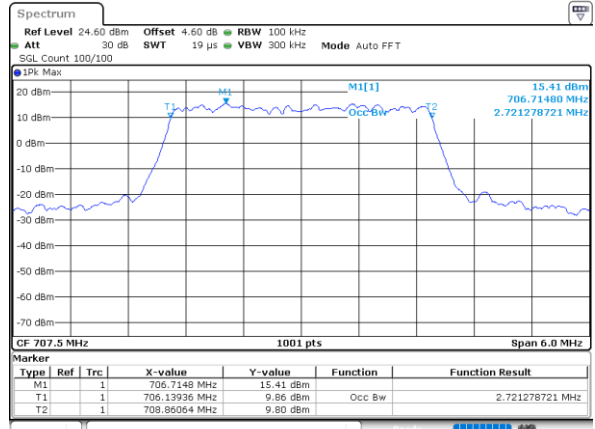
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 29\_JUL\_2024 23:04:24

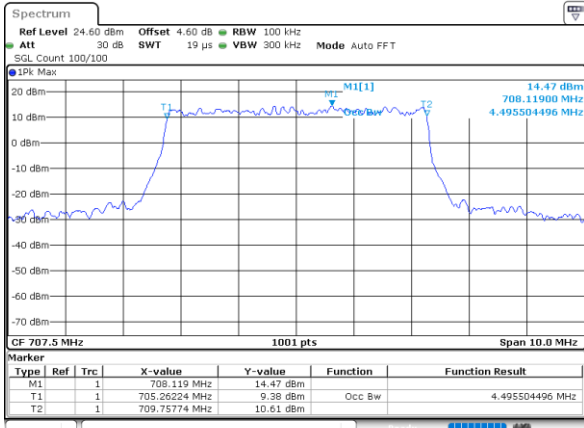
Middle Channel / 3MHz / 16QAM



Date: 29\_JUL\_2024 23:05:28

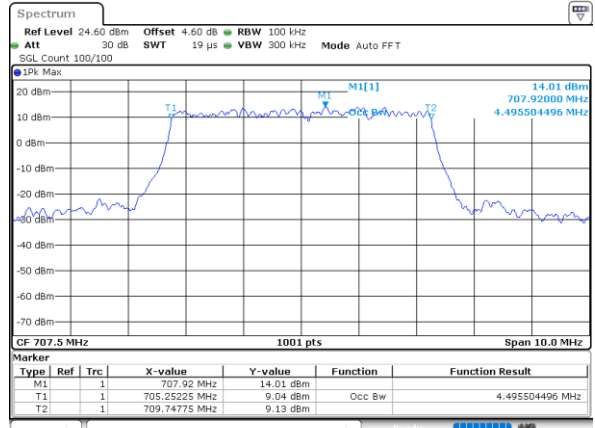
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 29\_JUL\_2024 23:03:00

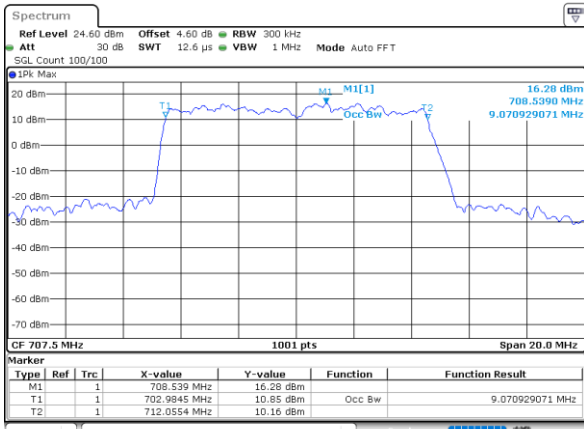
Middle Channel / 5MHz / 16QAM



Date: 29\_JUL\_2024 23:04:03

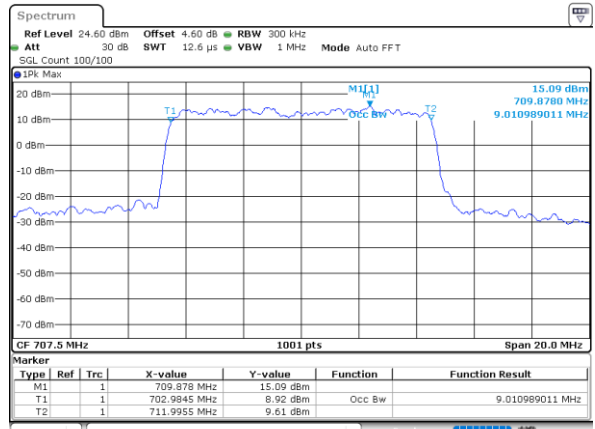
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 29\_JUL\_2024 23:01:35

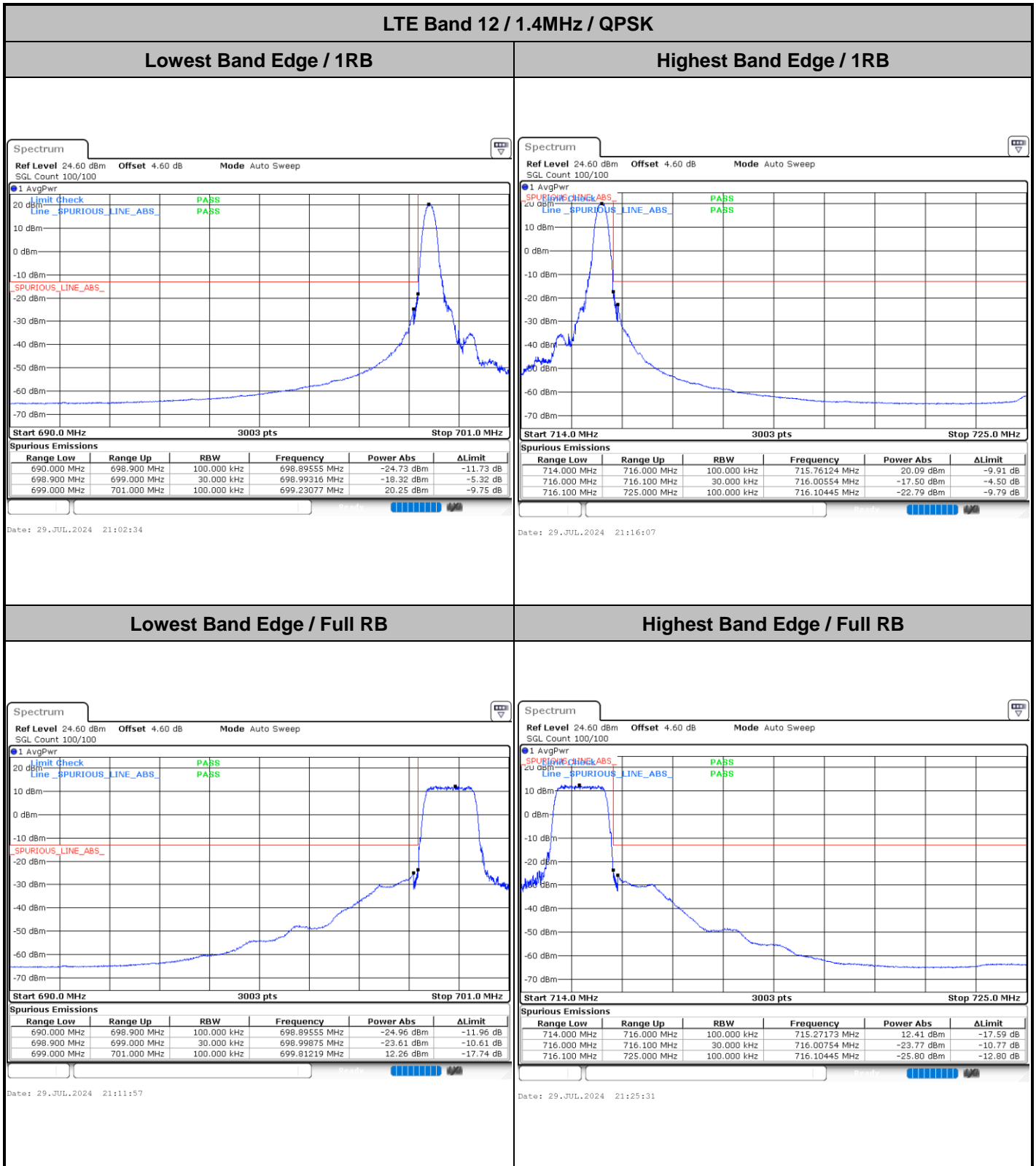
Middle Channel / 10MHz / 16QAM



Date: 29\_JUL\_2024 23:01:56



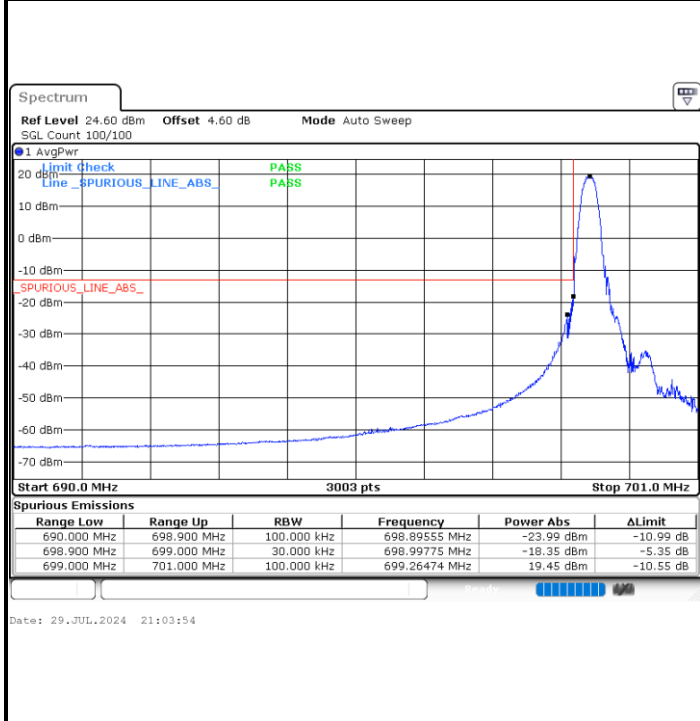
# Conducted Band Edge



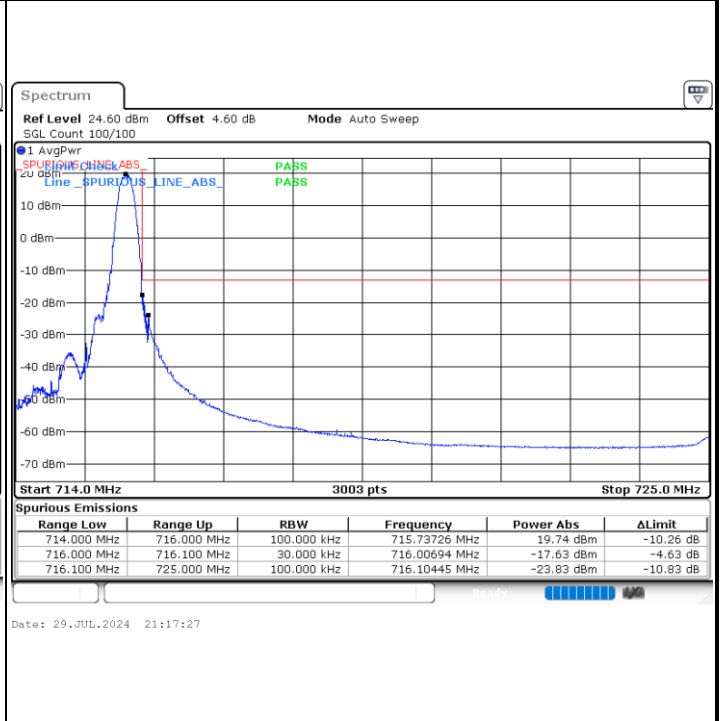


**LTE Band 12 / 1.4MHz / 16QAM**

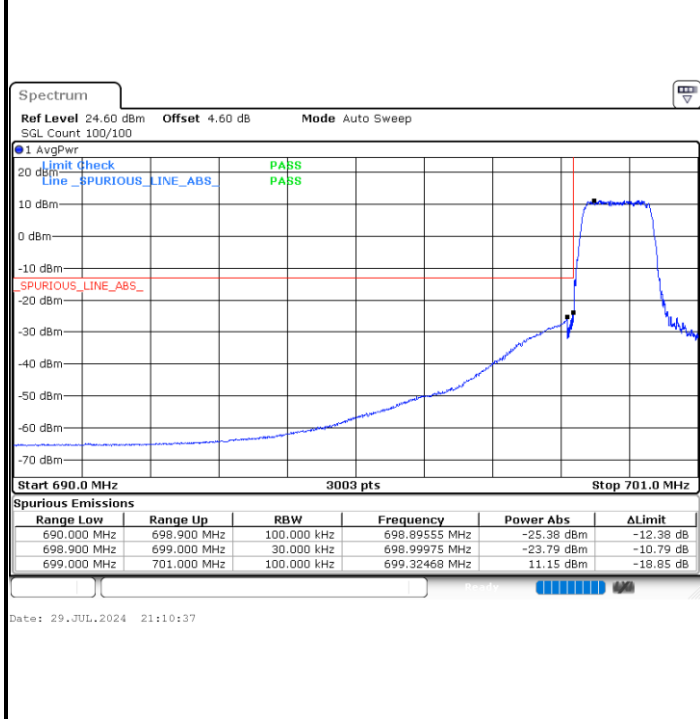
**Lowest Band Edge / 1 RB**



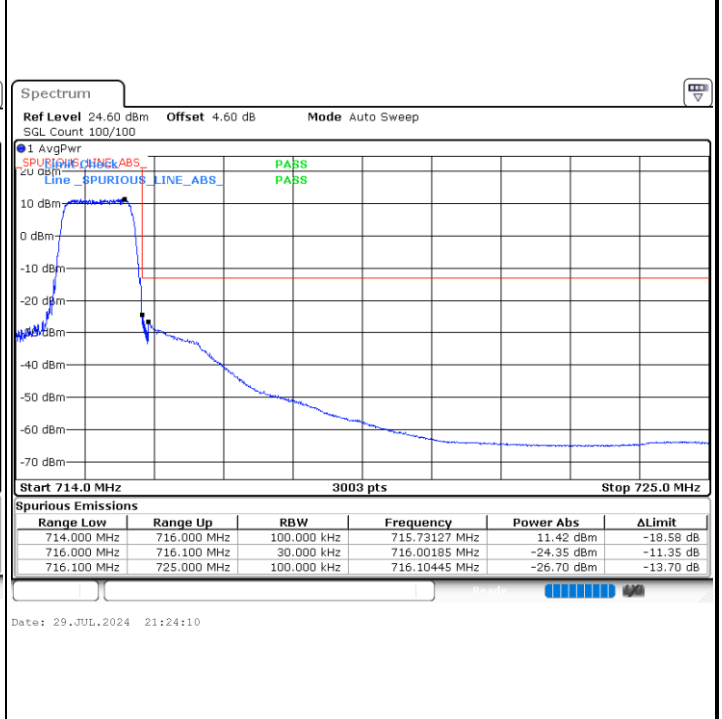
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



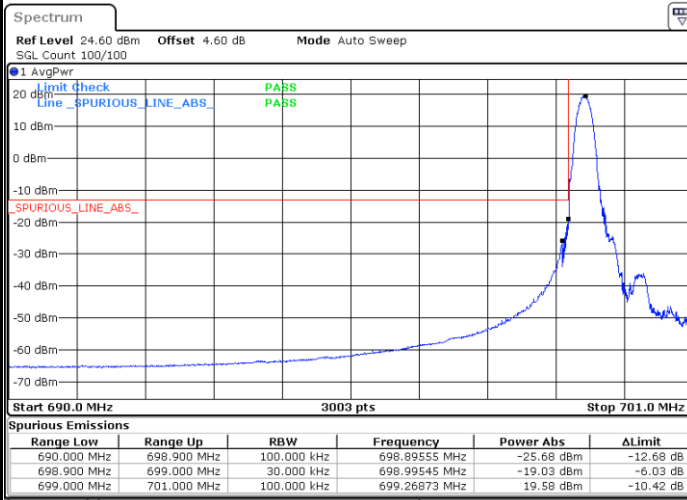
**Highest Band Edge / Full RB**





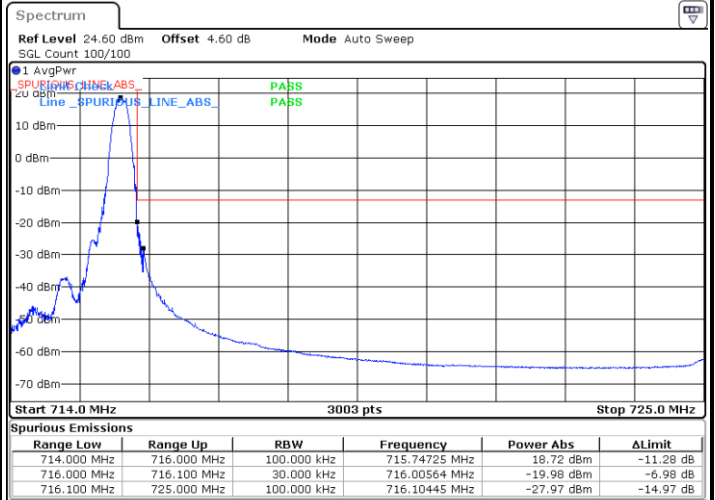
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



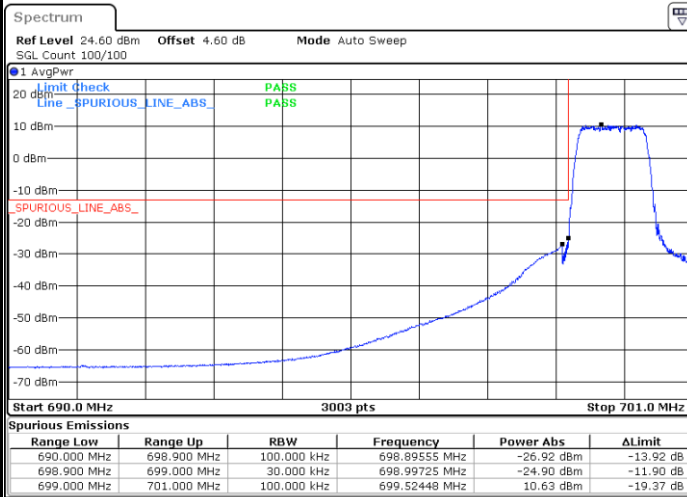
Date: 29.JUL.2024 21:05:14

Highest Band Edge / 1 RB



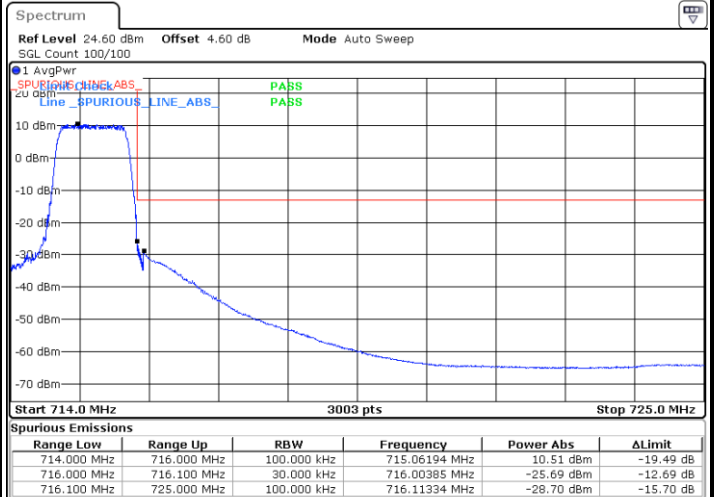
Date: 29.JUL.2024 21:18:47

Lowest Band Edge / Full RB



Date: 29.JUL.2024 21:09:17

Highest Band Edge / Full RB



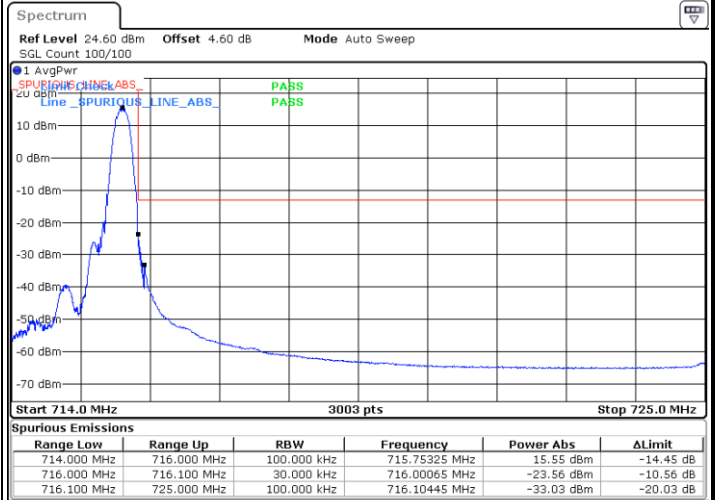
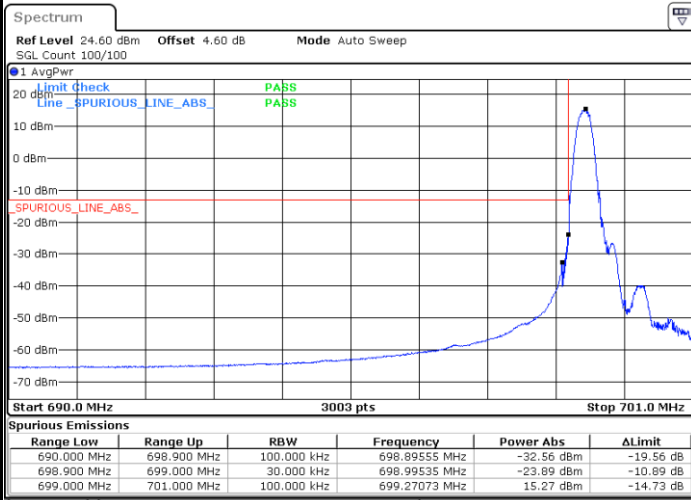
Date: 29.JUL.2024 21:22:50



LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

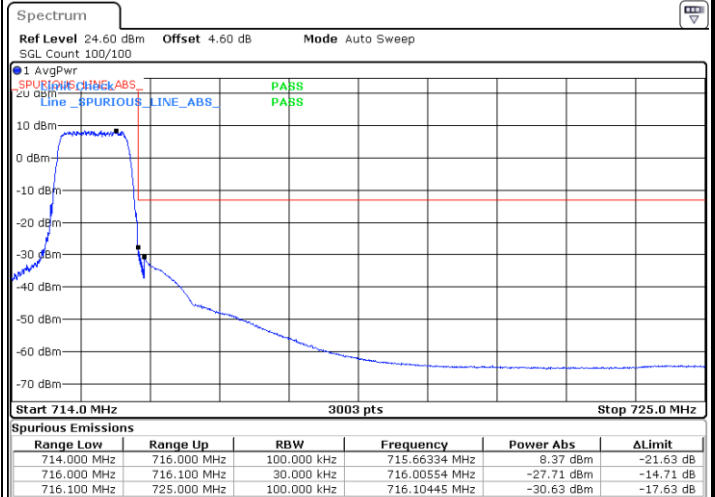
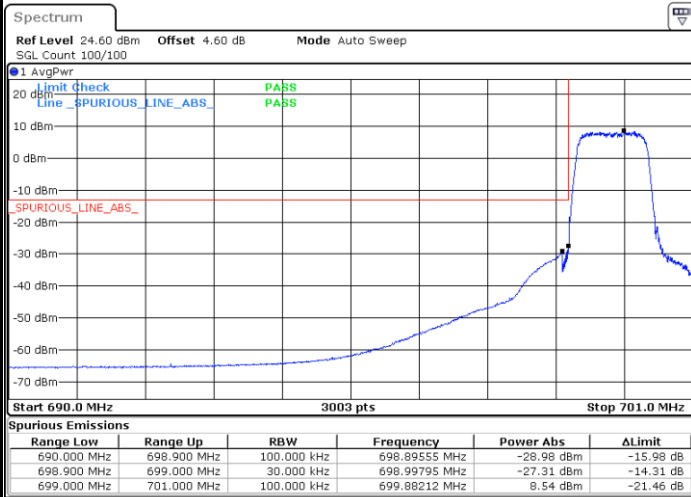


Date: 29\_JUL.2024 21:06:34

Date: 29\_JUL.2024 21:20:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



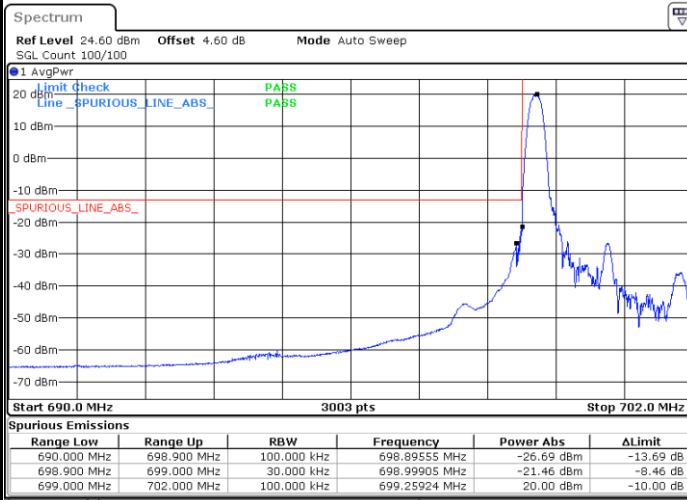
Date: 29\_JUL.2024 21:07:57

Date: 29\_JUL.2024 21:21:30



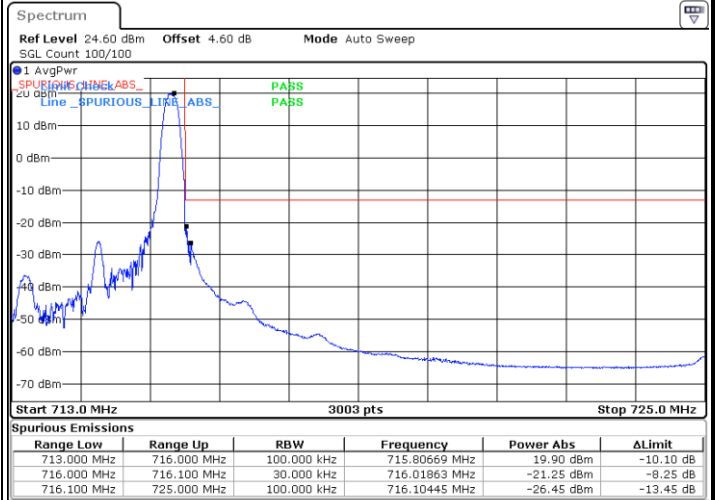
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



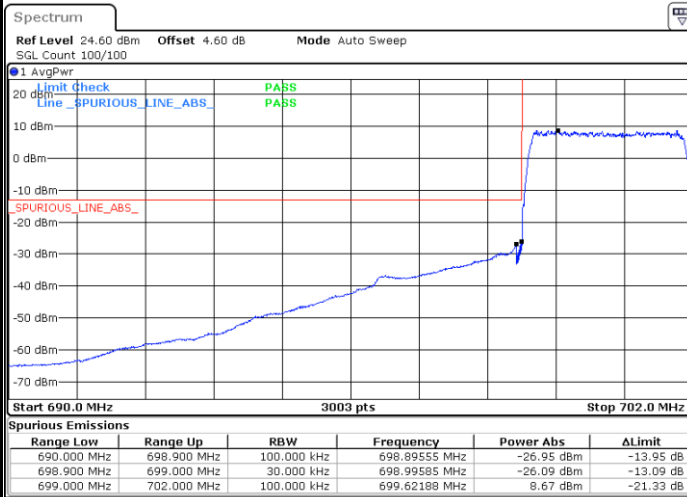
Date: 29.JUL.2024 21:28:16

Highest Band Edge / 1 RB



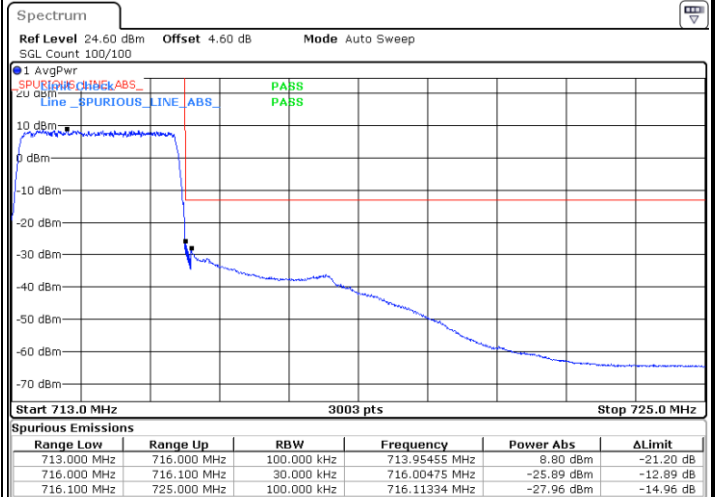
Date: 29.JUL.2024 21:42:25

Lowest Band Edge / Full RB



Date: 29.JUL.2024 21:38:16

Highest Band Edge / Full RB



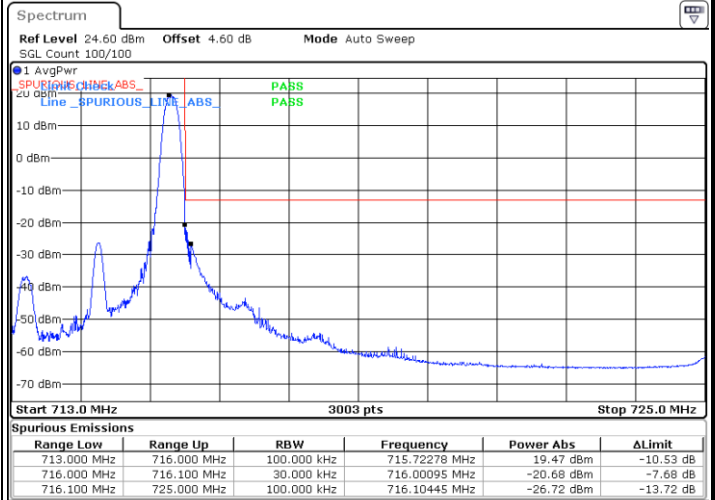
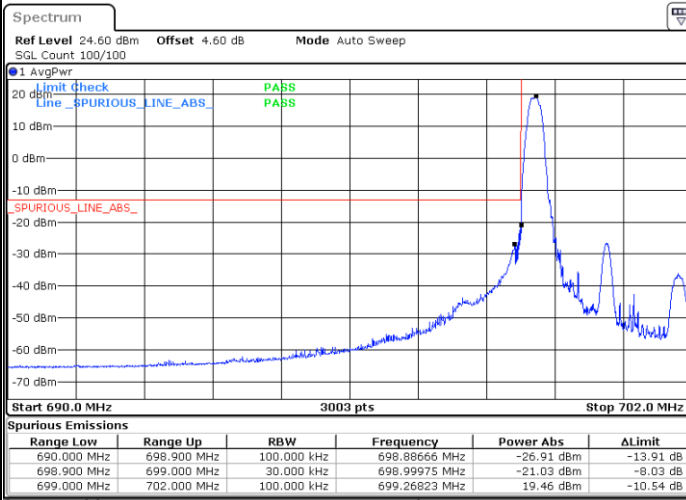
Date: 29.JUL.2024 21:53:04



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

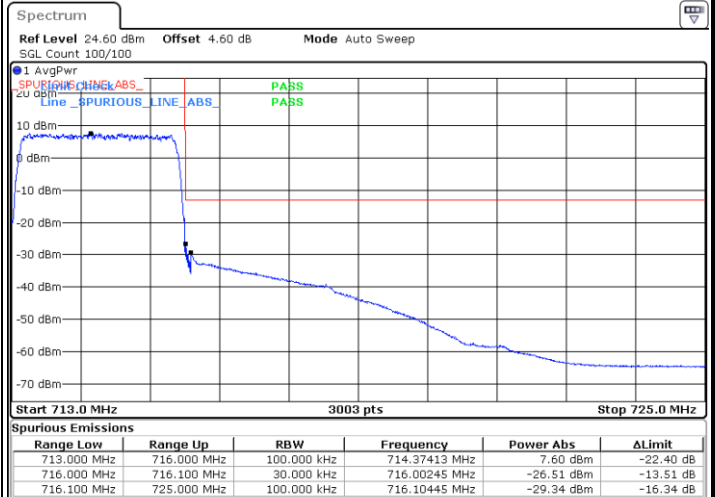
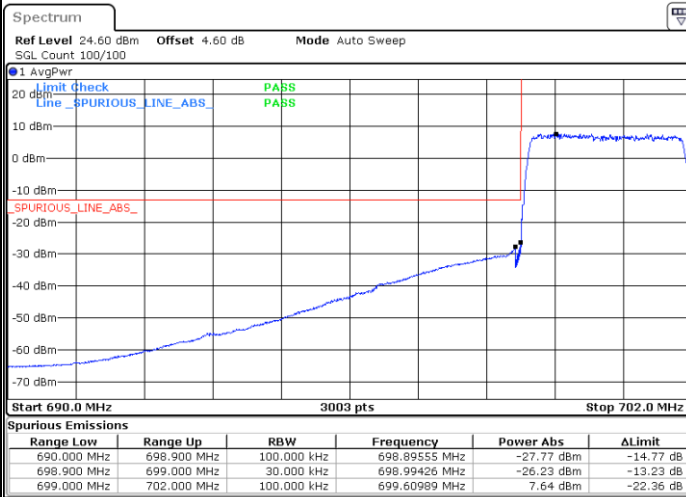


Date: 29.JUL.2024 21:29:36

Date: 29.JUL.2024 21:43:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



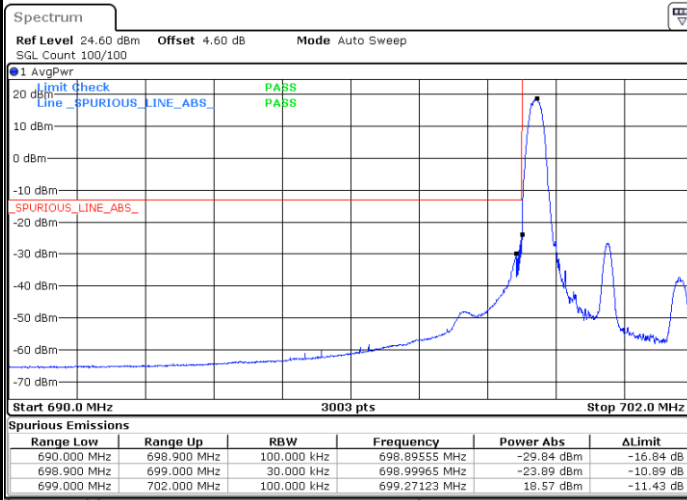
Date: 29.JUL.2024 21:36:56

Date: 29.JUL.2024 21:51:53



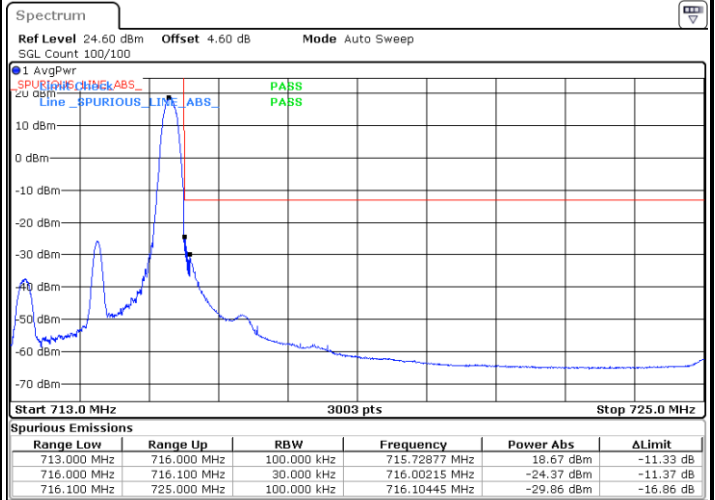
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



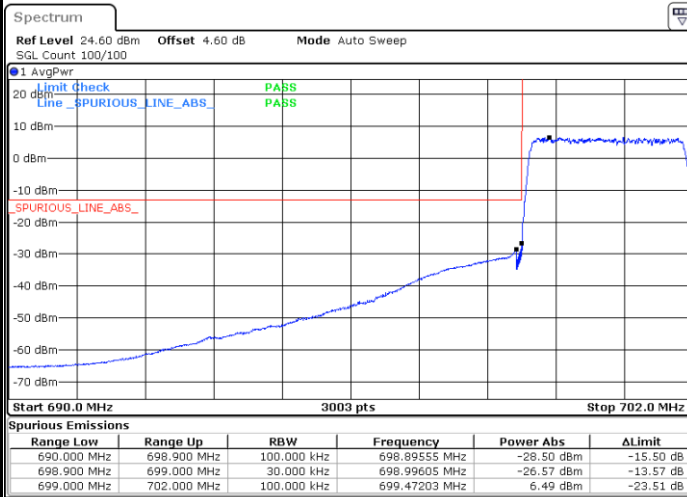
Date: 29.JUL.2024 21:30:56

Highest Band Edge / 1 RB



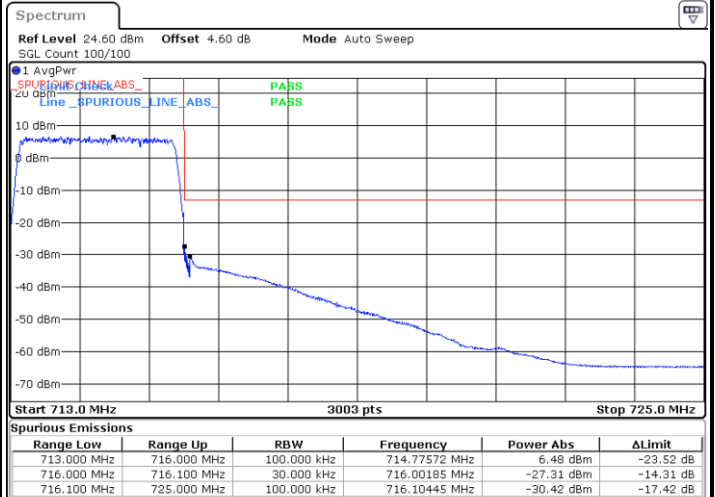
Date: 29.JUL.2024 21:45:05

Lowest Band Edge / Full RB



Date: 29.JUL.2024 21:35:36

Highest Band Edge / Full RB

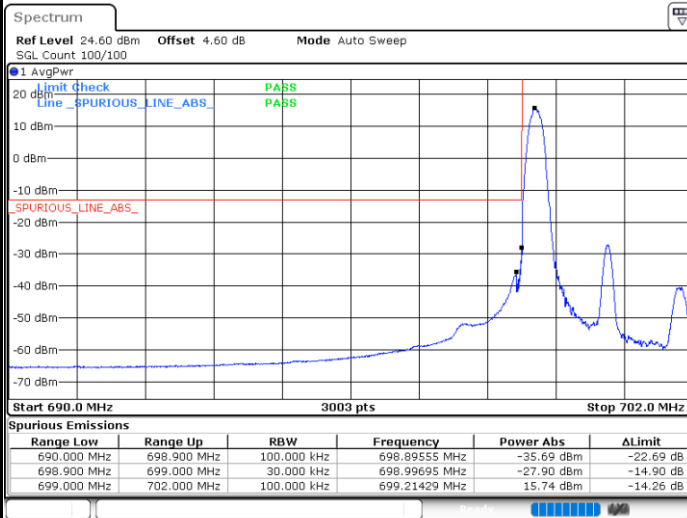


Date: 29.JUL.2024 21:50:43

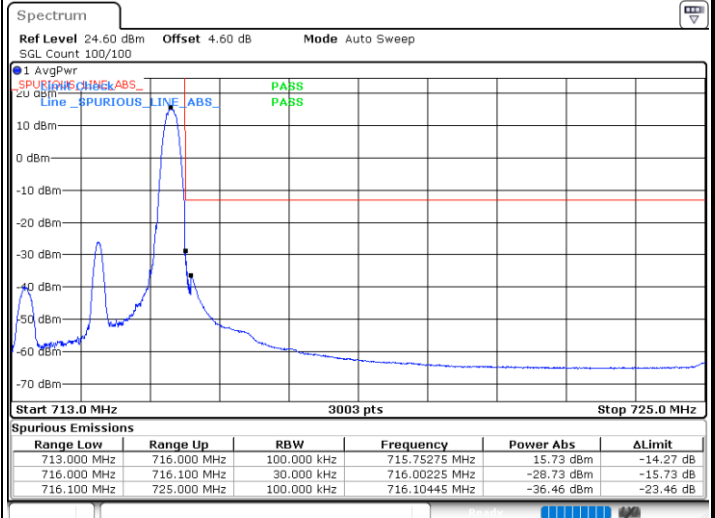


LTE Band 12 / 3MHz / 256QAM

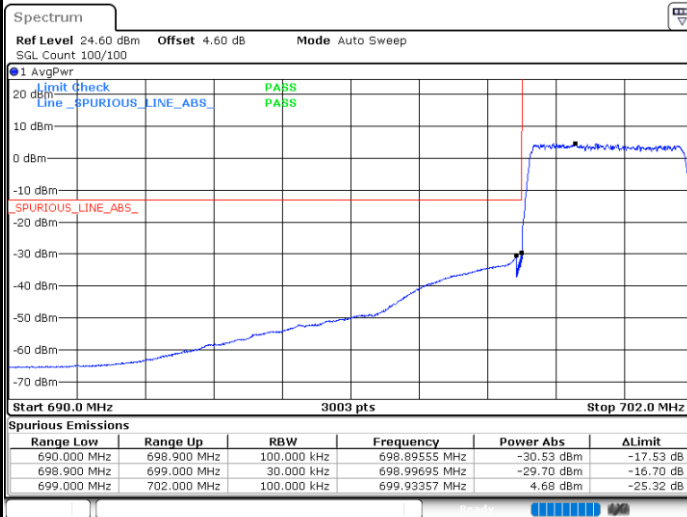
Lowest Band Edge / 1 RB



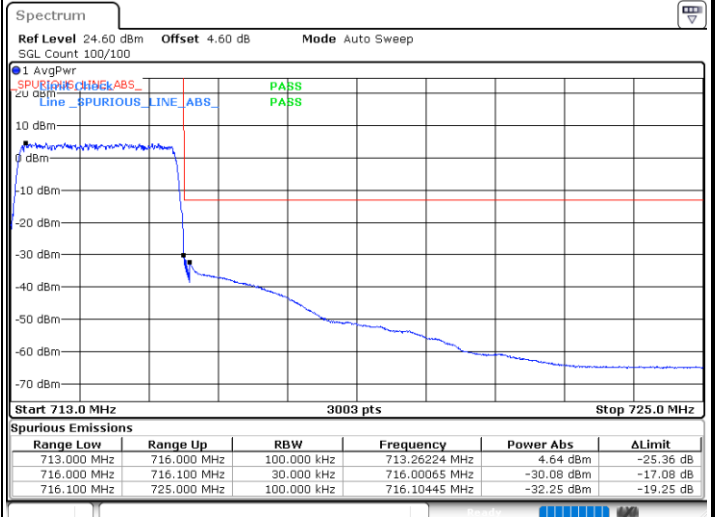
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

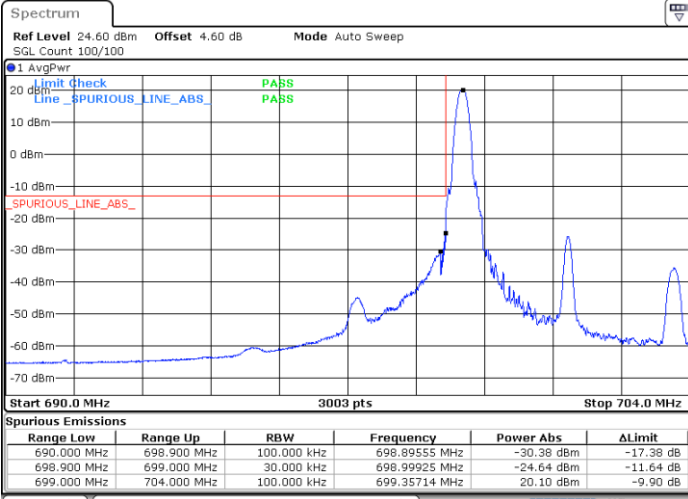




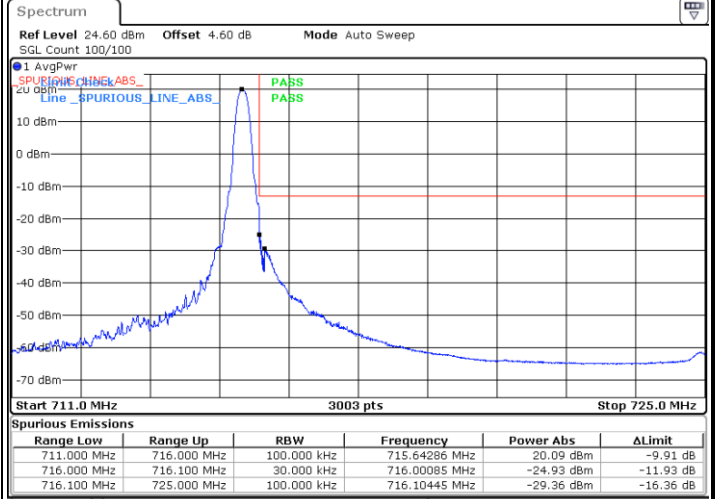
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



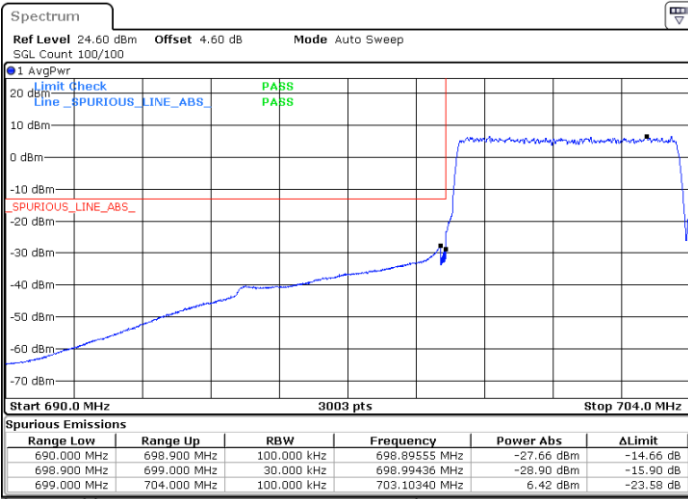
Date: 29.JUL.2024 21:55:40



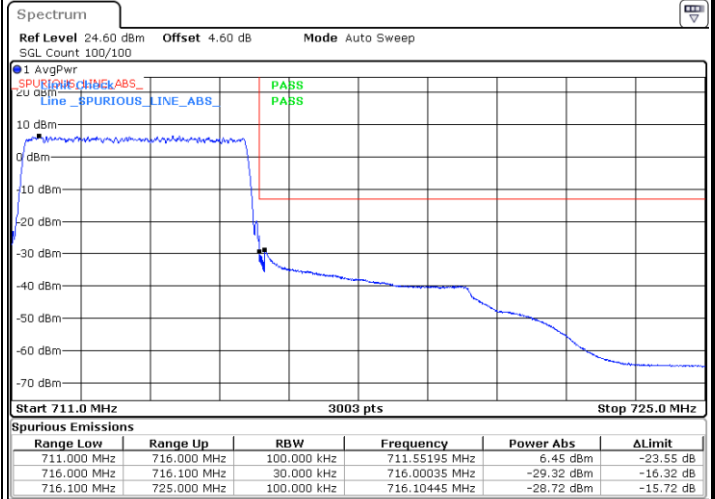
Date: 29.JUL.2024 22:08:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.JUL.2024 22:04:30

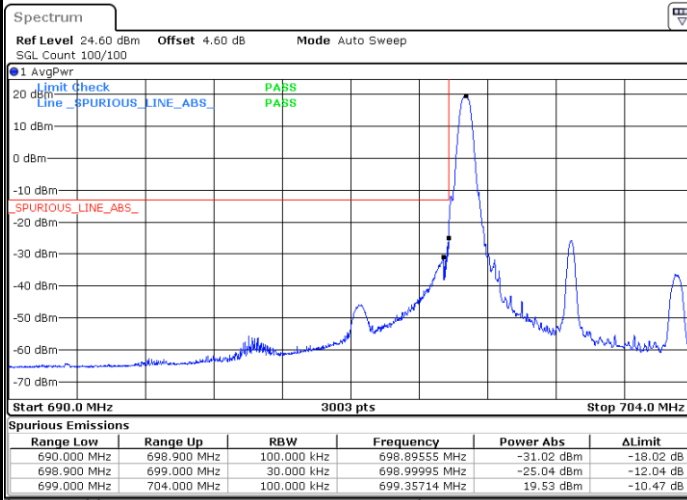


Date: 29.JUL.2024 22:18:24



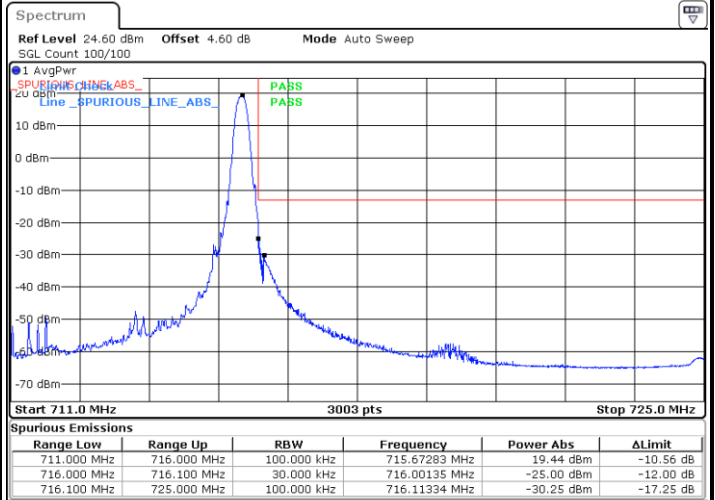
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



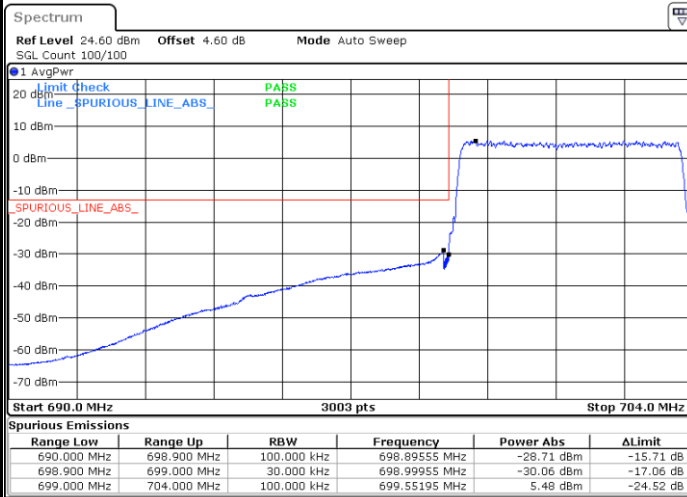
Date: 29.JUL.2024 21:56:50

Highest Band Edge / 1 RB



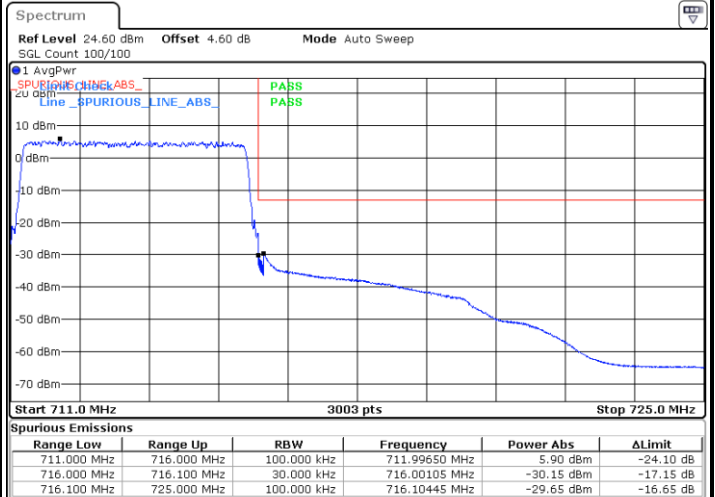
Date: 29.JUL.2024 22:09:40

Lowest Band Edge / Full RB



Date: 29.JUL.2024 22:03:20

Highest Band Edge / Full RB

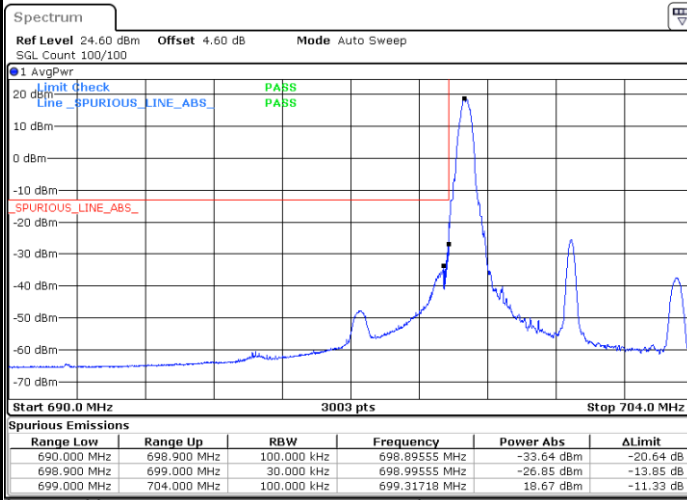


Date: 29.JUL.2024 22:17:14

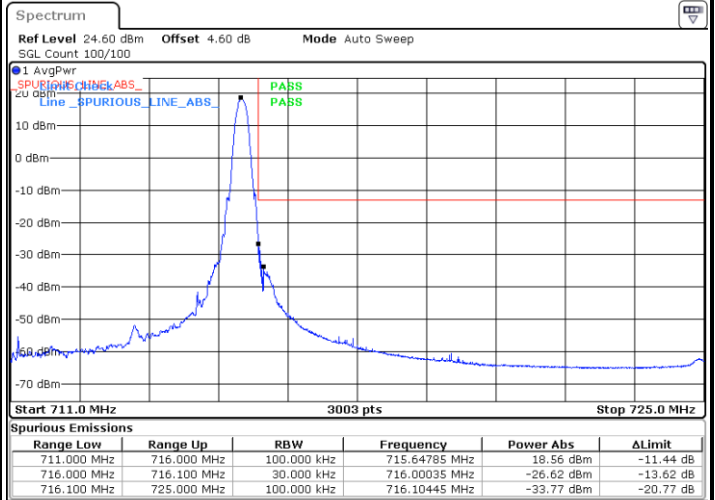


LTE Band 12 / 5MHz / 64QAM

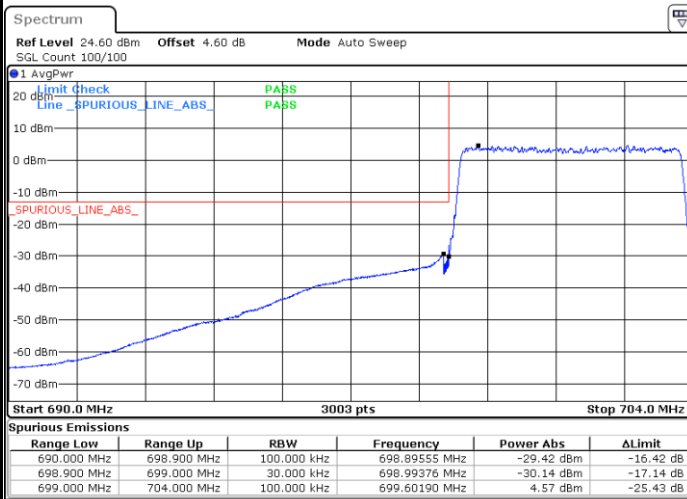
Lowest Band Edge / 1RB



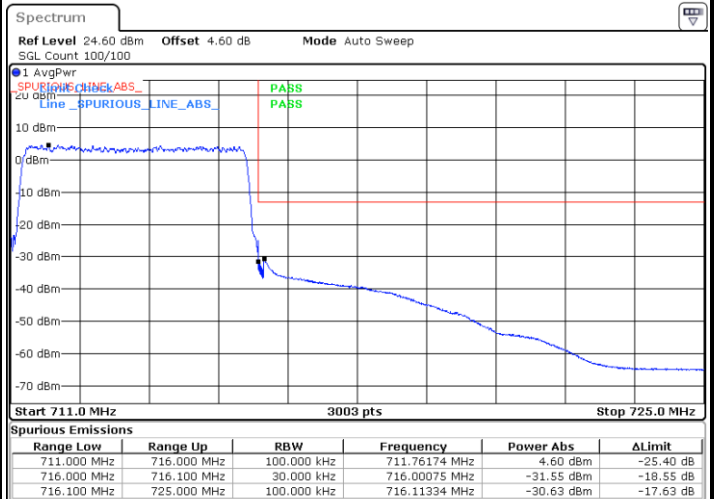
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



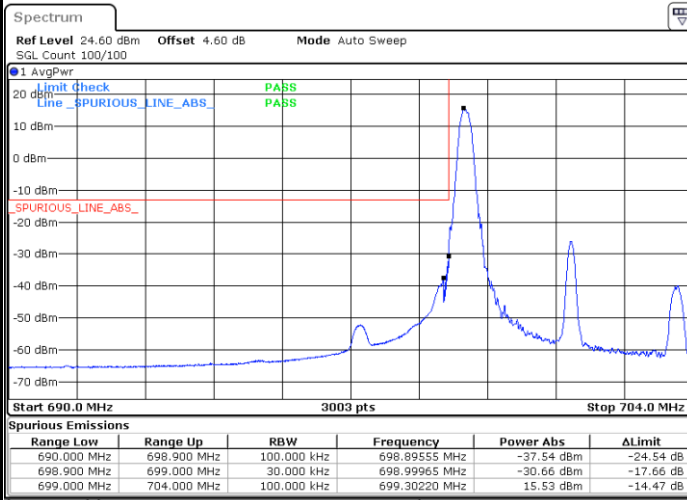
Highest Band Edge / Full RB





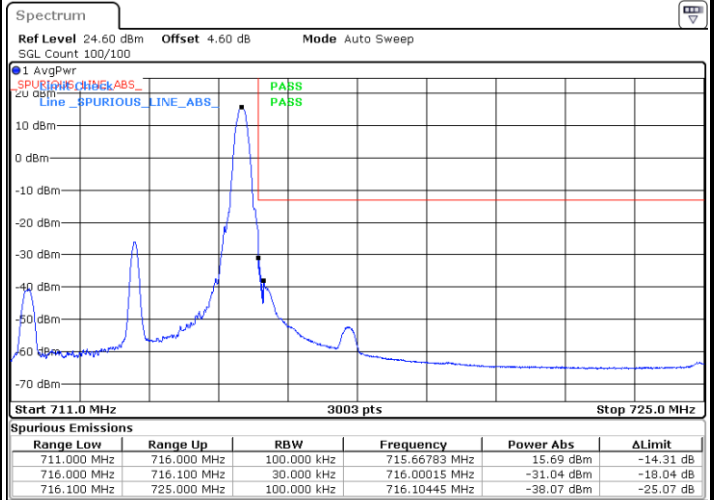
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



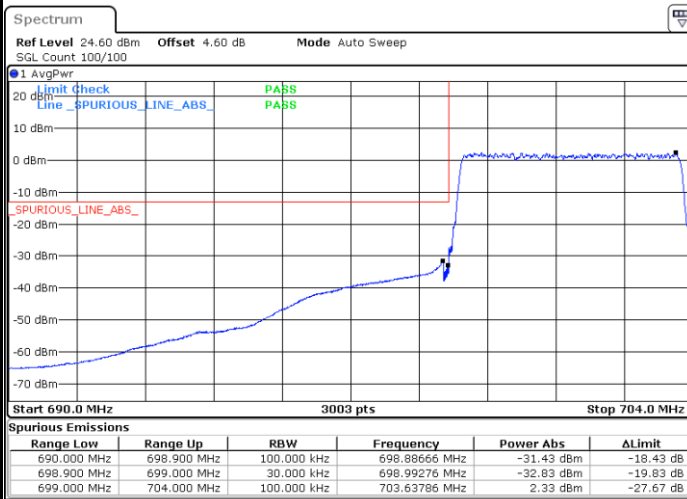
Date: 29.JUL.2024 21:59:10

Highest Band Edge / 1 RB



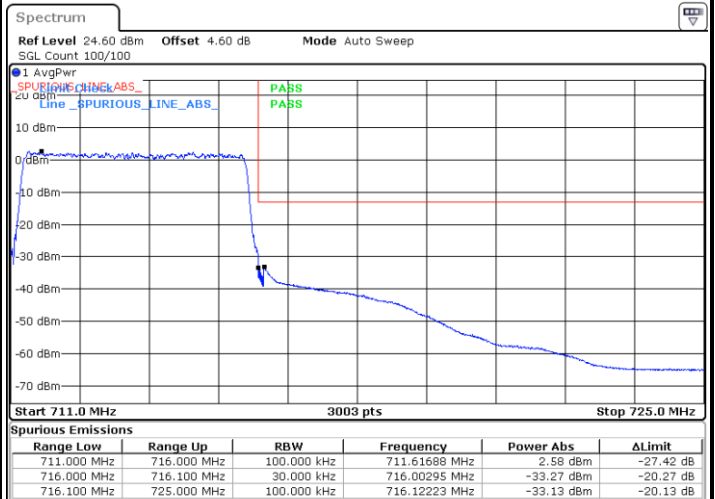
Date: 29.JUL.2024 22:12:00

Lowest Band Edge / Full RB



Date: 29.JUL.2024 22:00:57

Highest Band Edge / Full RB

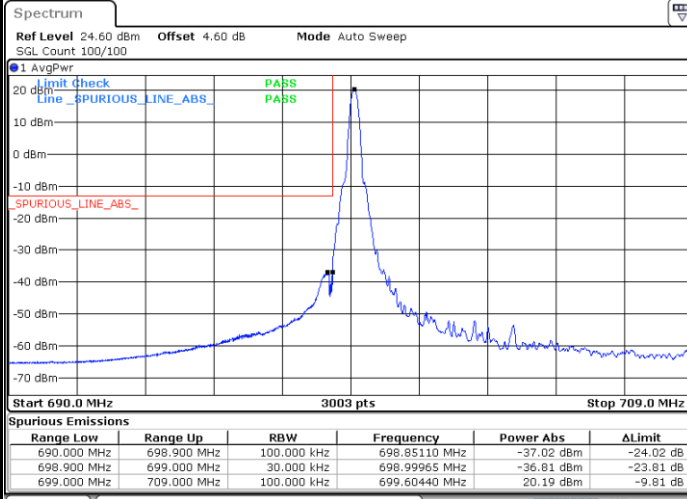


Date: 29.JUL.2024 22:14:51



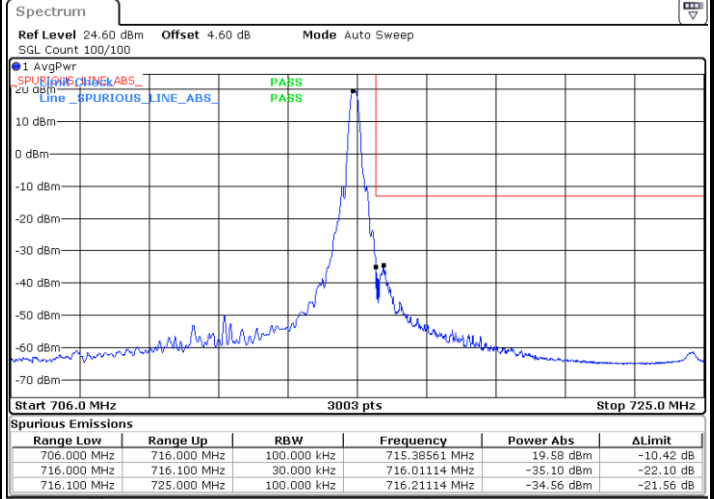
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



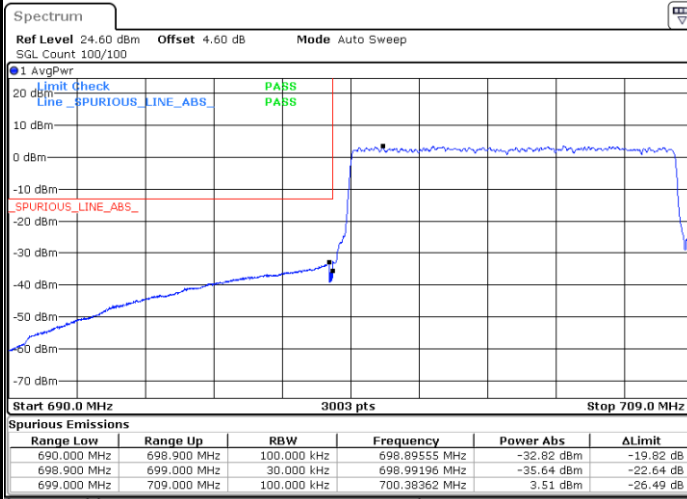
Date: 29.JUL.2024 22:21:00

Highest Band Edge / 1 RB



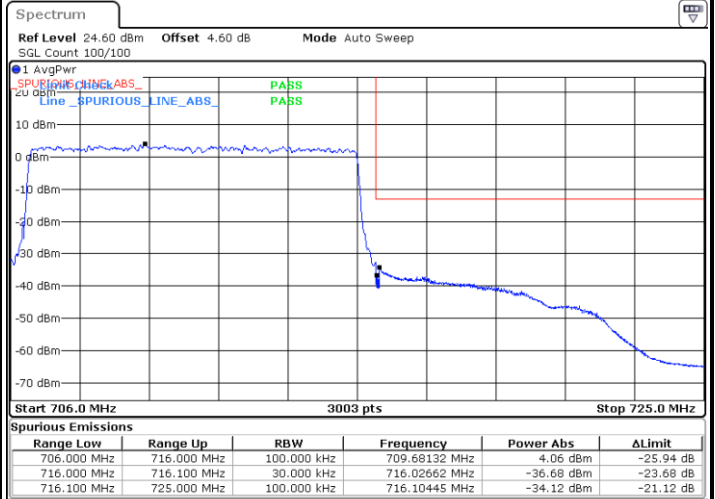
Date: 29.JUL.2024 22:36:10

Lowest Band Edge / Full RB



Date: 29.JUL.2024 22:32:20

Highest Band Edge / Full RB

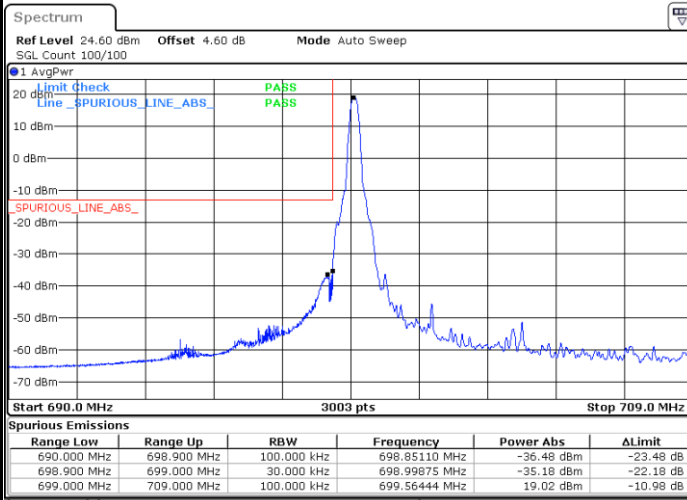


Date: 29.JUL.2024 22:44:33



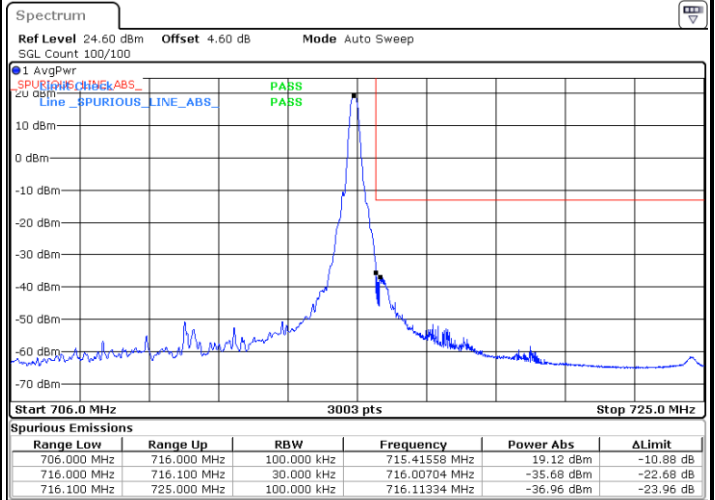
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



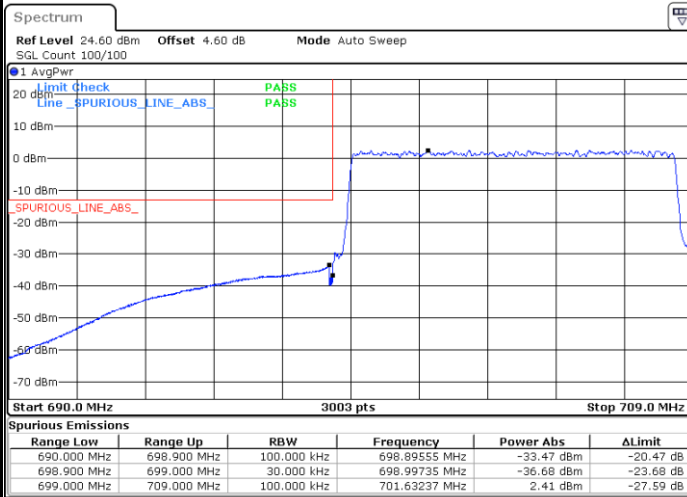
Date: 29.JUL.2024 22:22:10

Highest Band Edge / 1 RB



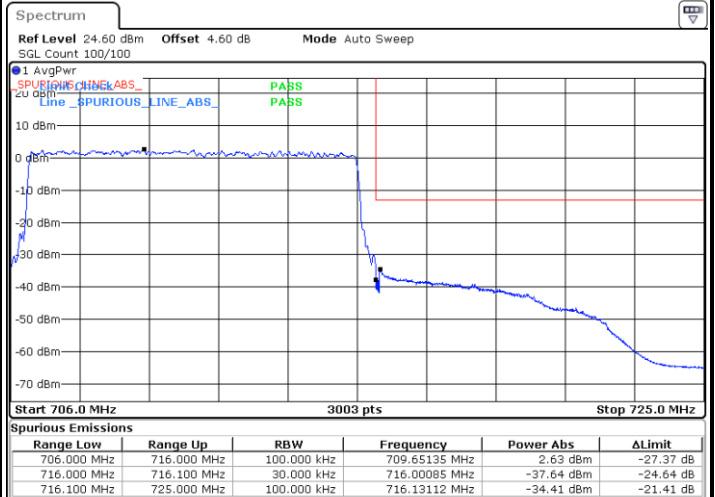
Date: 29.JUL.2024 22:37:10

Lowest Band Edge / Full RB



Date: 29.JUL.2024 22:31:20

Highest Band Edge / Full RB

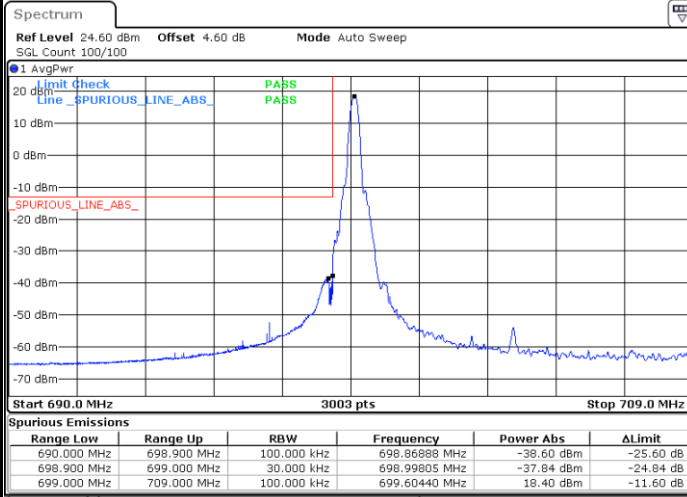


Date: 29.JUL.2024 22:43:33



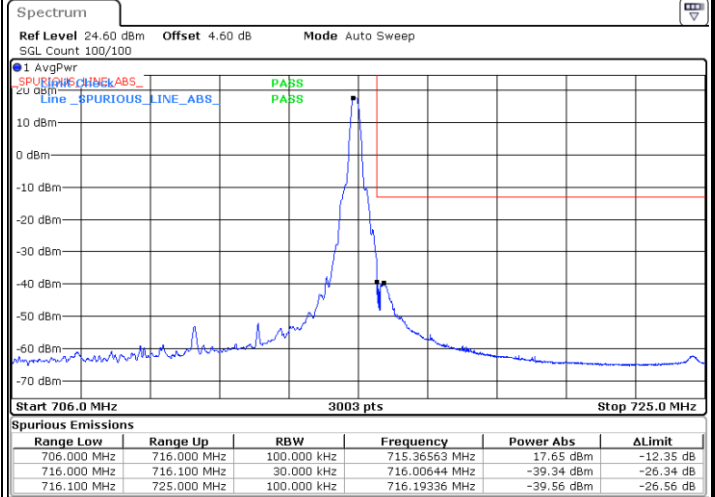
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



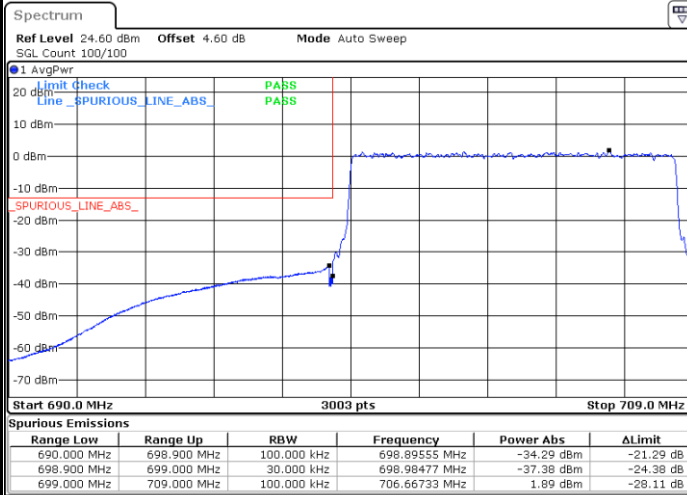
Date: 29\_JUL.2024 22:23:20

Highest Band Edge / 1 RB



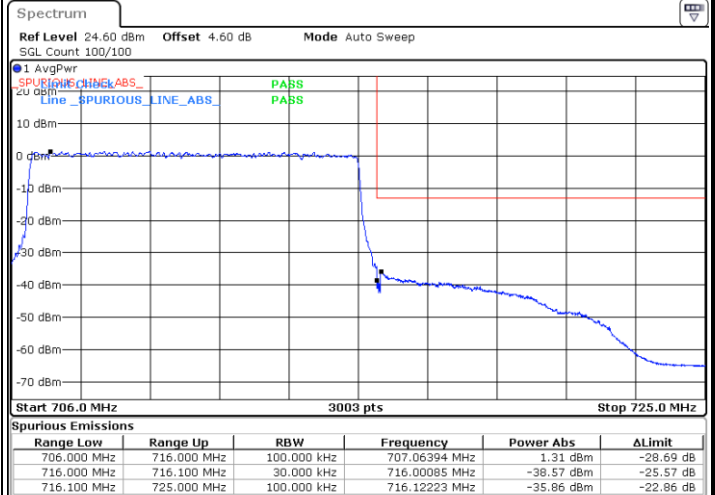
Date: 29\_JUL.2024 22:38:10

Lowest Band Edge / Full RB



Date: 29\_JUL.2024 22:30:20

Highest Band Edge / Full RB

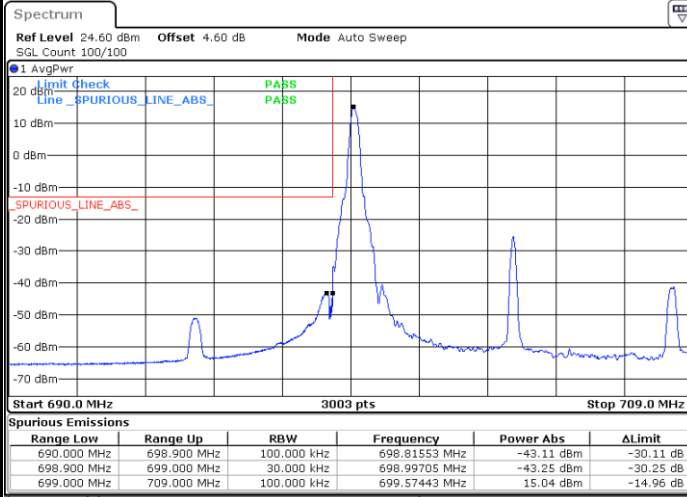


Date: 29\_JUL.2024 22:42:33



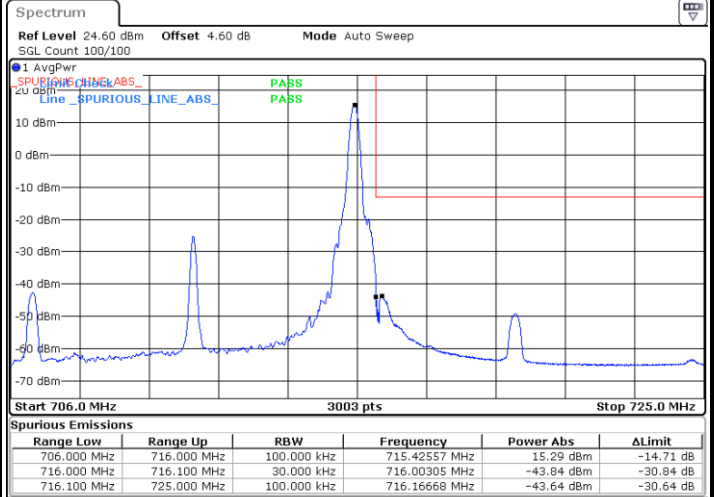
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



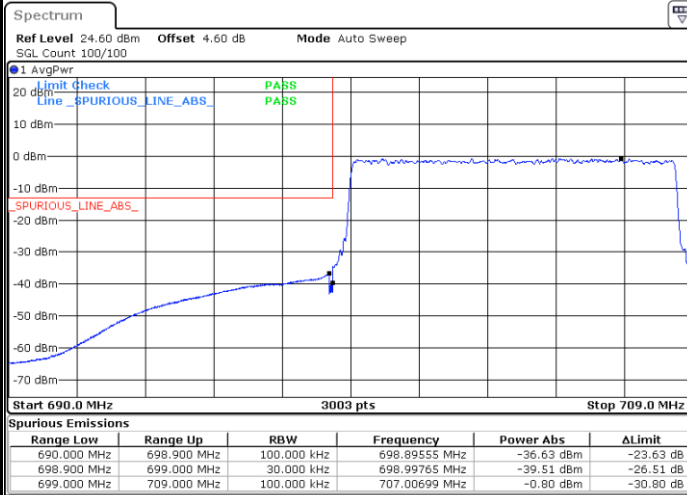
Date: 29.JUL.2024 22:24:30

Highest Band Edge / 1 RB



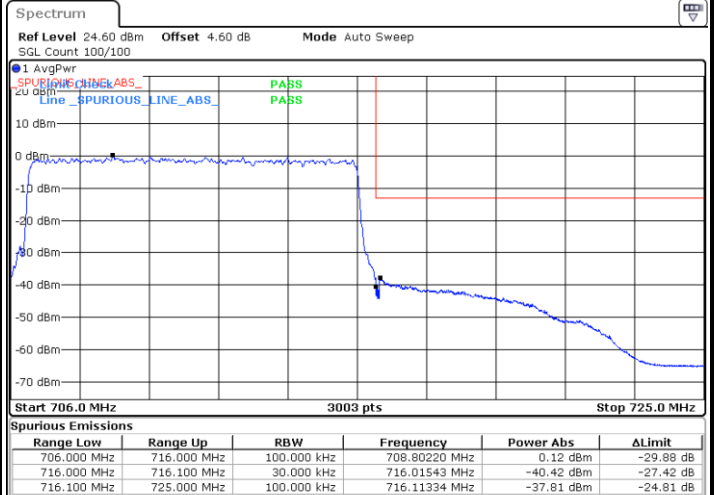
Date: 29.JUL.2024 22:39:10

Lowest Band Edge / Full RB



Date: 29.JUL.2024 22:29:17

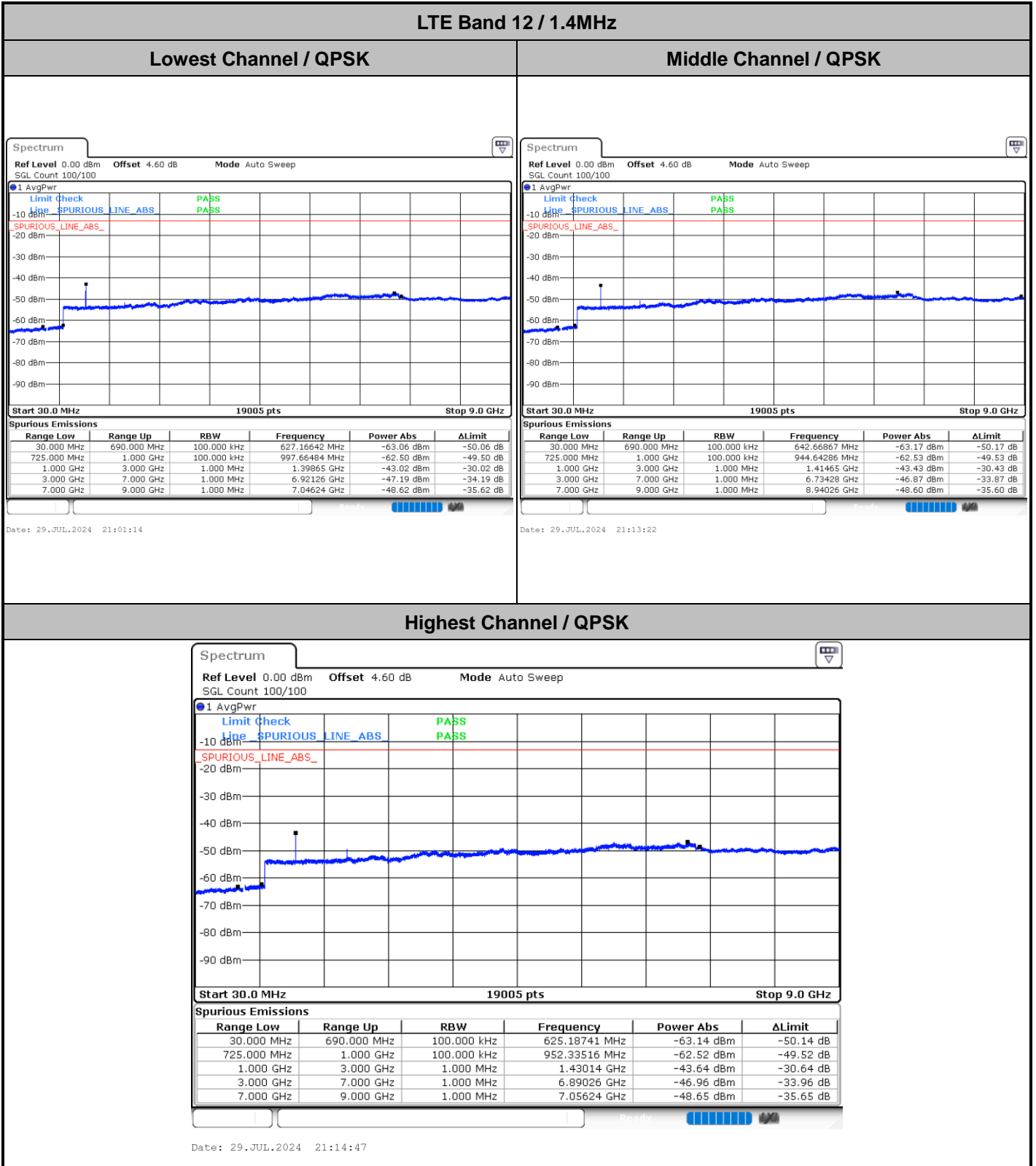
Highest Band Edge / Full RB



Date: 29.JUL.2024 22:41:33



# Conducted Spurious Emission

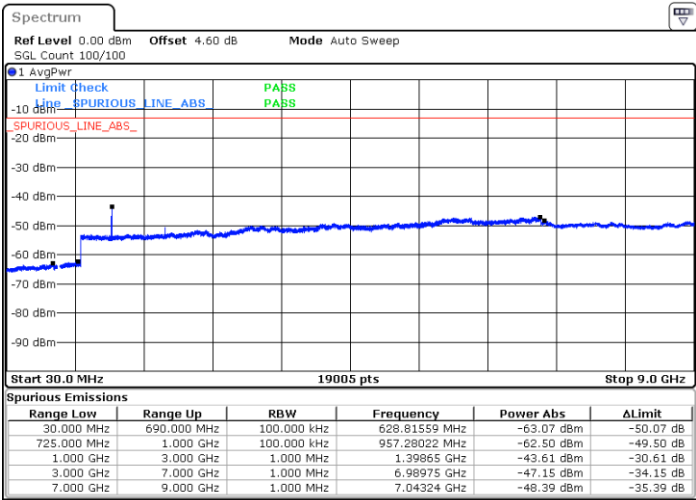




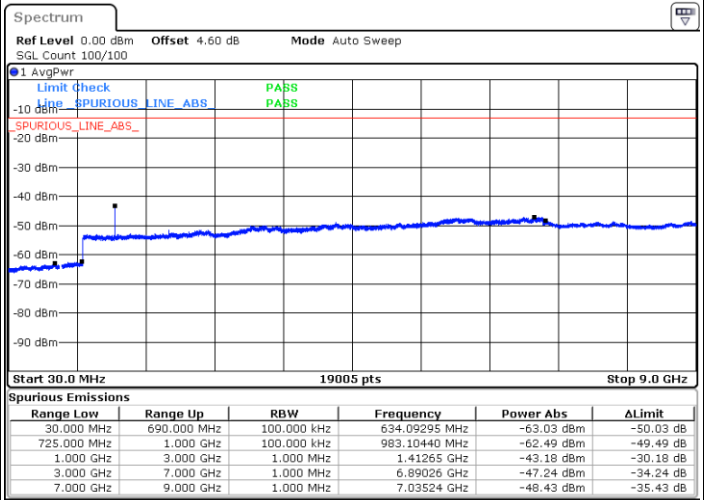
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

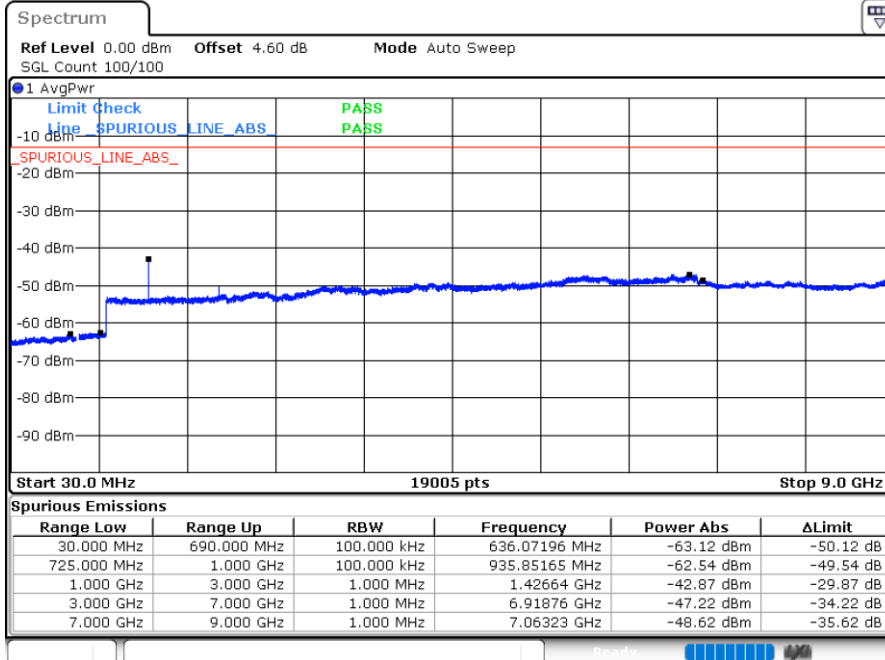


Date: 29.JUL.2024 21:26:56



Date: 29.JUL.2024 21:39:40

Highest Channel / QPSK



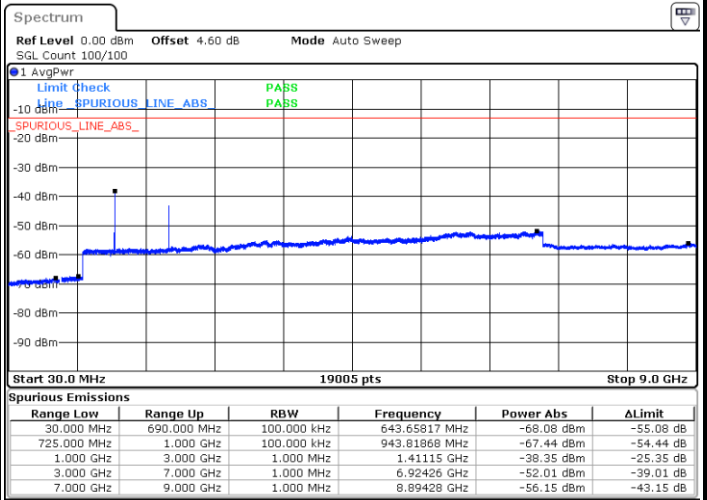
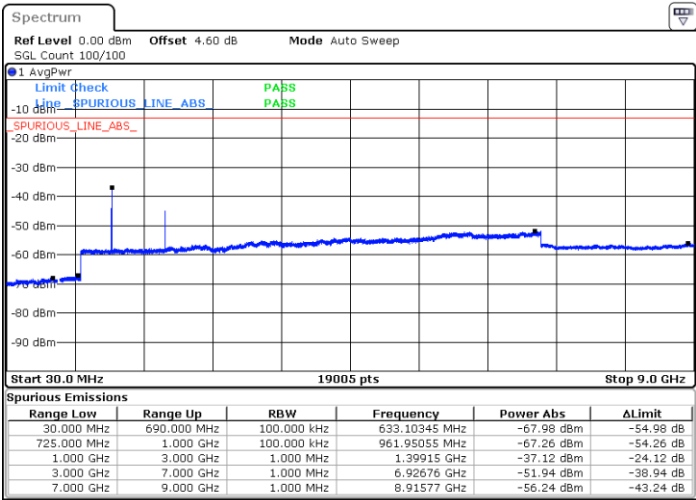
Date: 29.JUL.2024 21:41:05



LTE Band 12 / 5MHz

Lowest Channel / QPSK

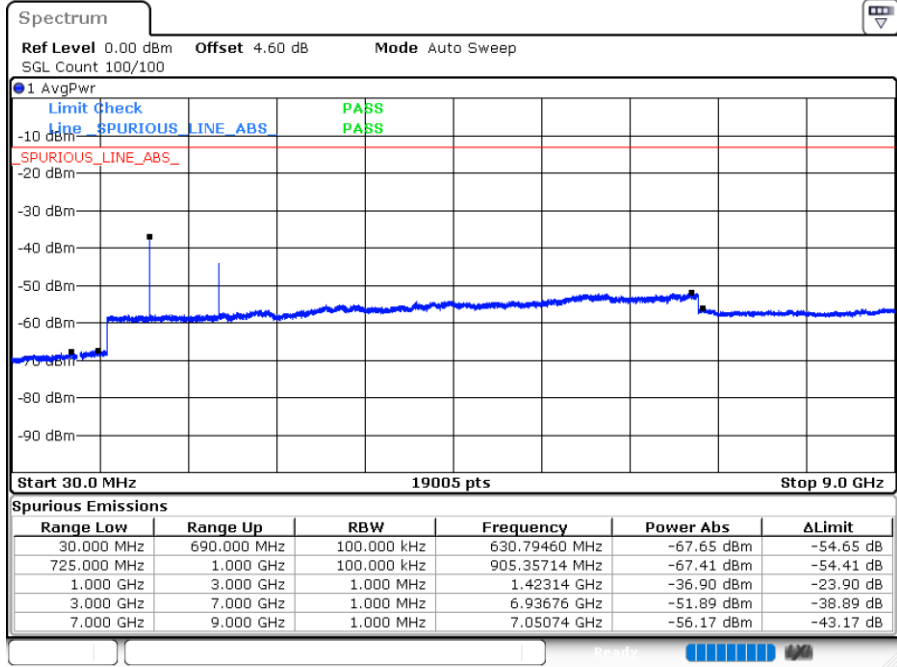
Middle Channel / QPSK



Date: 29.JUL.2024 21:54:29

Date: 29.JUL.2024 22:05:55

Highest Channel / QPSK



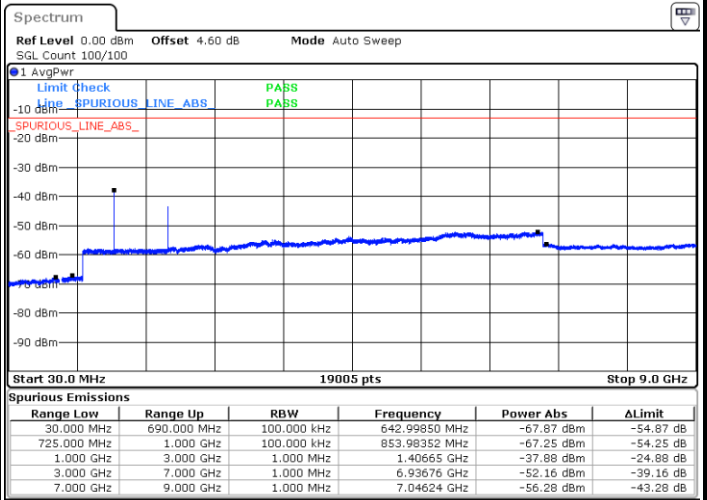
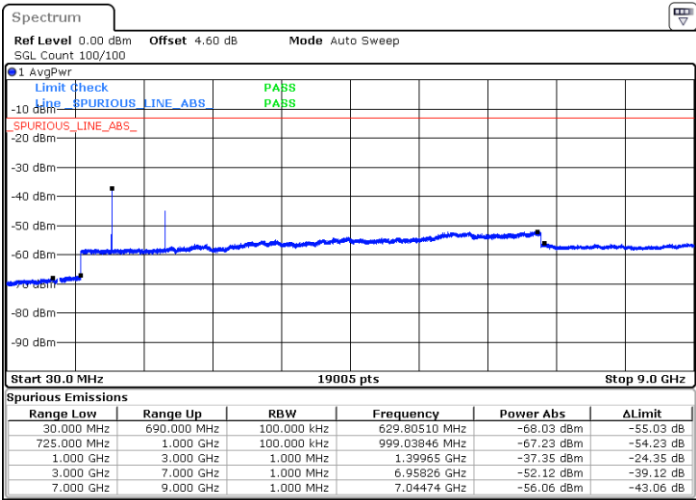
Date: 29.JUL.2024 22:07:20



LTE Band 12 / 10MHz

Lowest Channel / QPSK

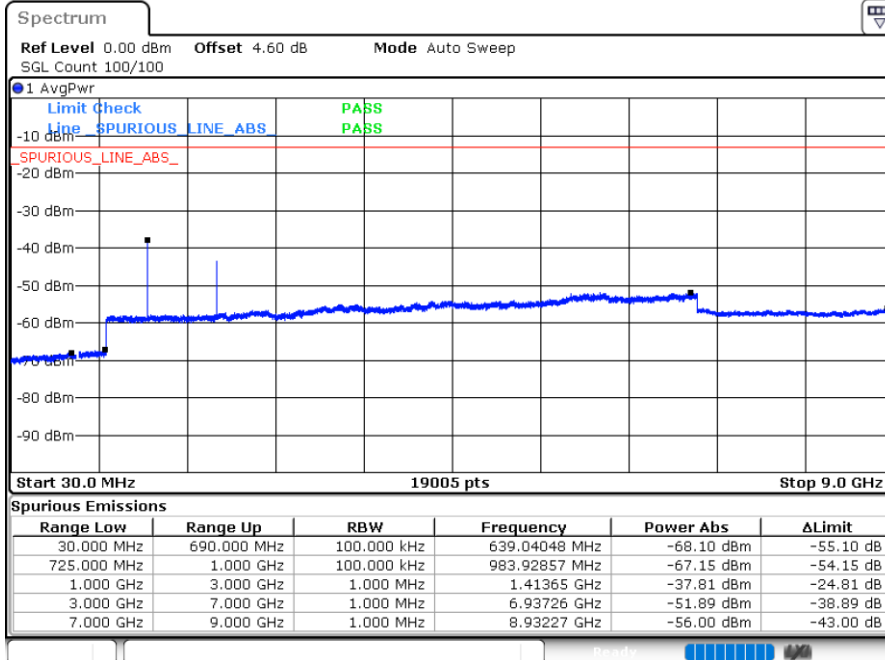
Middle Channel / QPSK



Date: 29.JUL.2024 22:19:50

Date: 29.JUL.2024 22:33:45

Highest Channel / QPSK



Date: 29.JUL.2024 22:35:10



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0057	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0042	

Note:

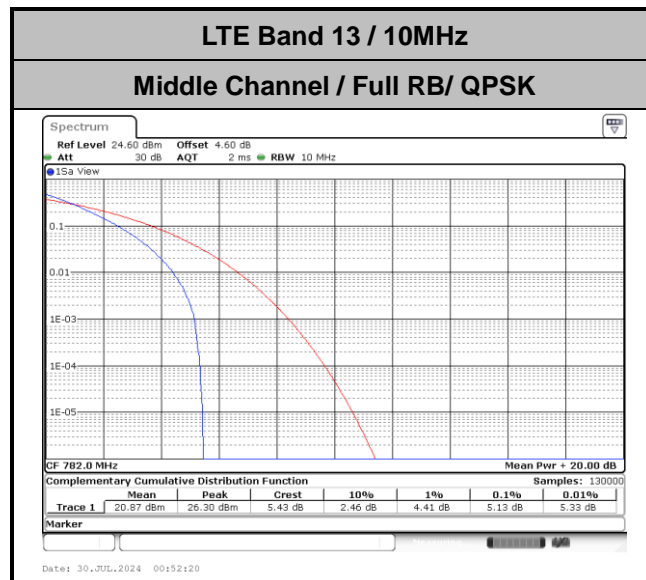
1. Normal Voltage =3.91 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.5V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

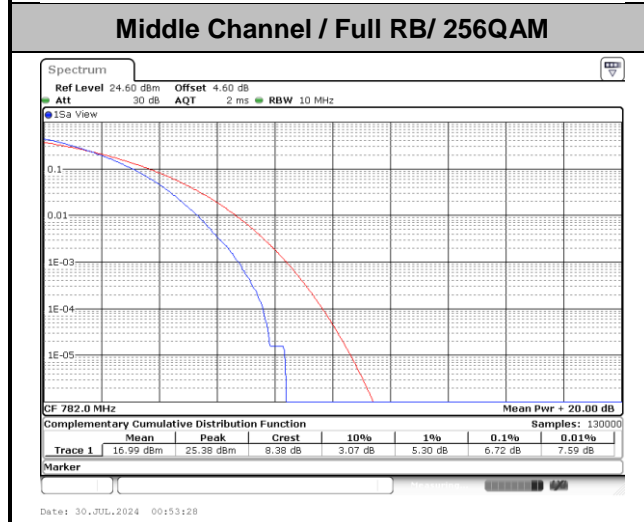
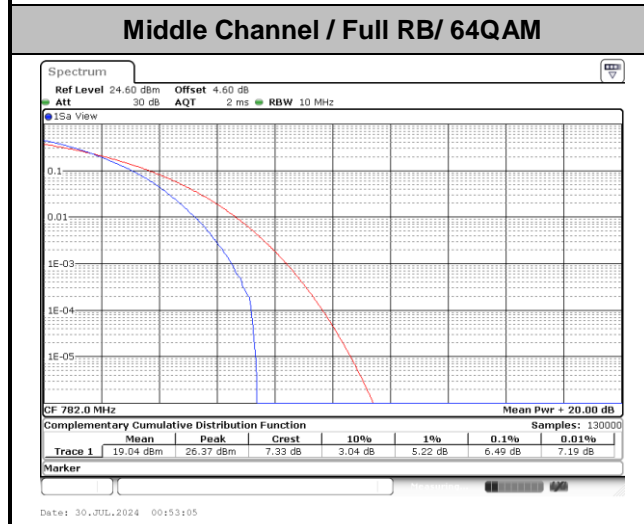
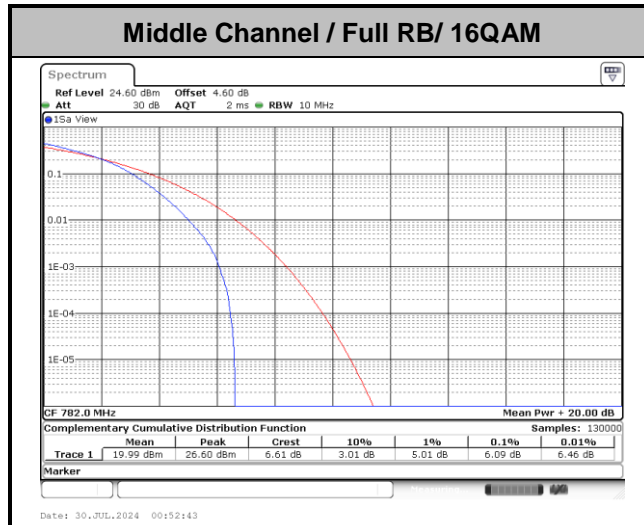


# LTE Band 13

## Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.13	6.09	6.49	6.72	PASS

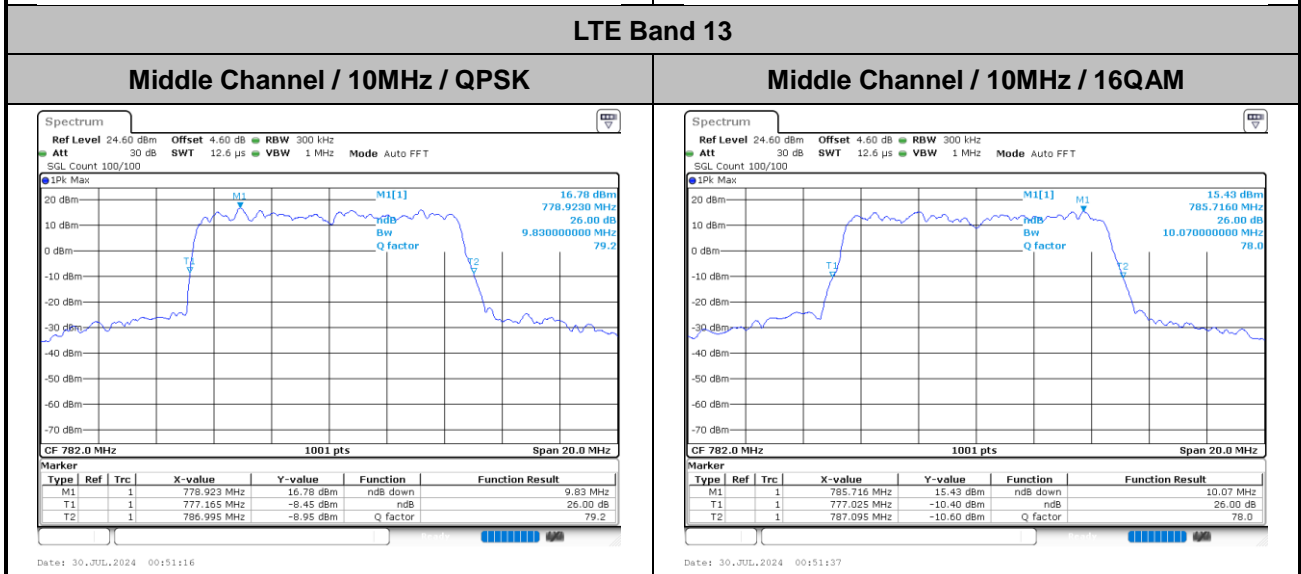
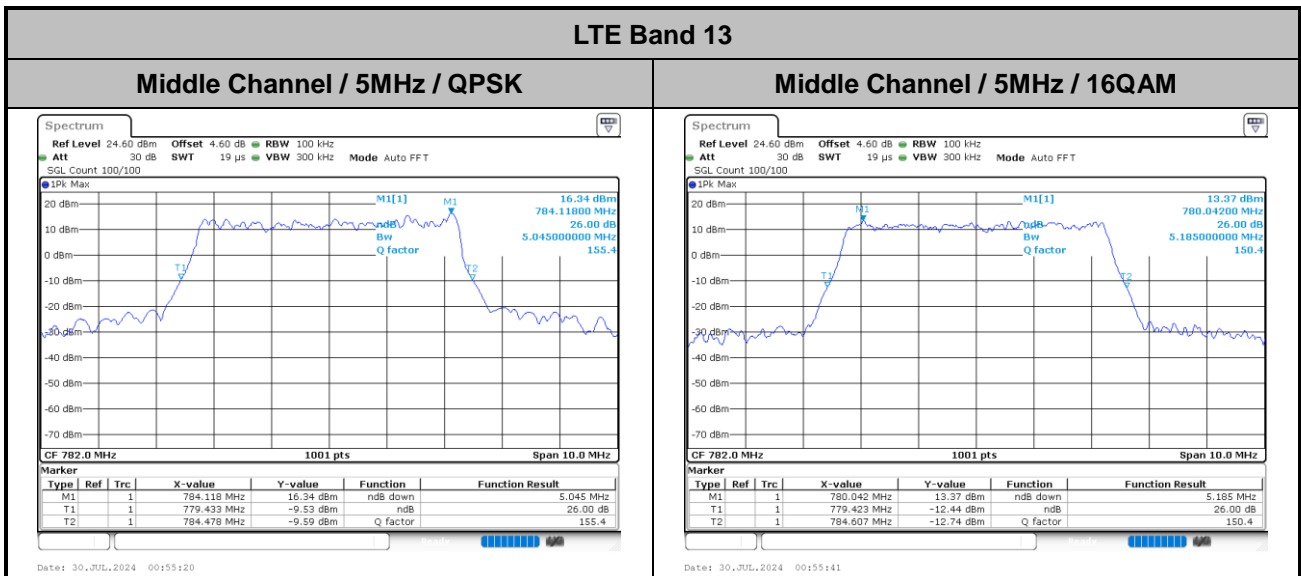






## 26dB Bandwidth

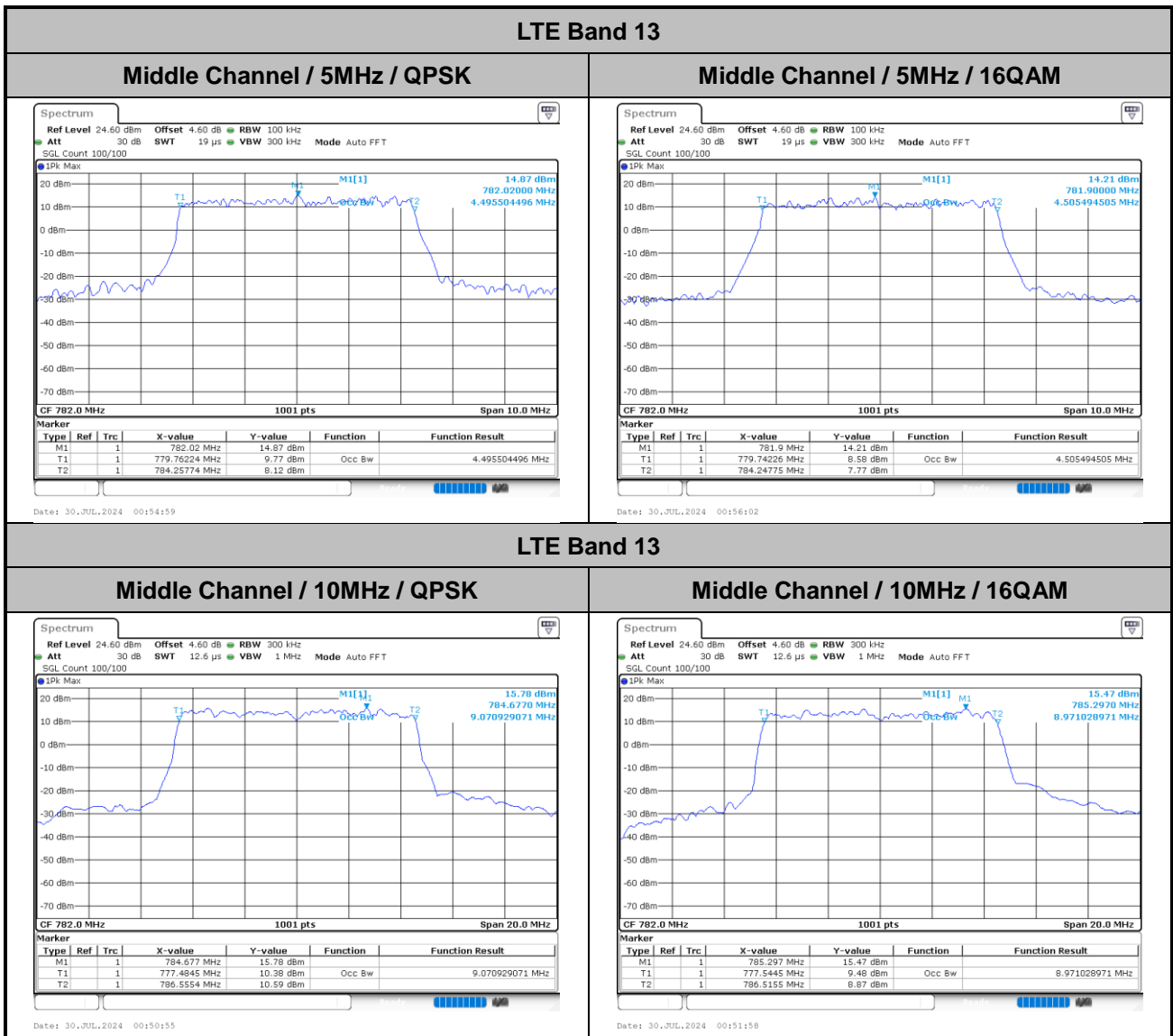
<b>Mode</b>	<b>LTE Band 13 : 26dB BW(MHz)</b>		
<b>BW</b>	<b>5MHz</b>		
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	
<b>Middle CH</b>	<b>5.05</b>	<b>5.19</b>	
<b>BW</b>	<b>10MHz</b>		
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	
<b>Middle CH</b>	<b>9.83</b>	<b>10.07</b>	





# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.51
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	8.97

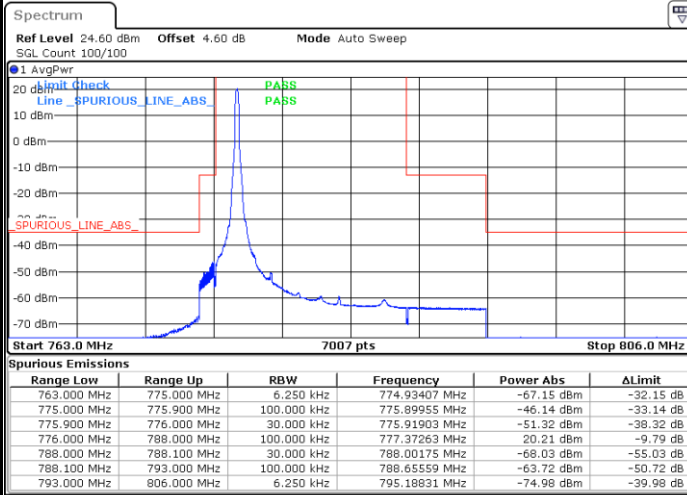




# Conducted Band Edge

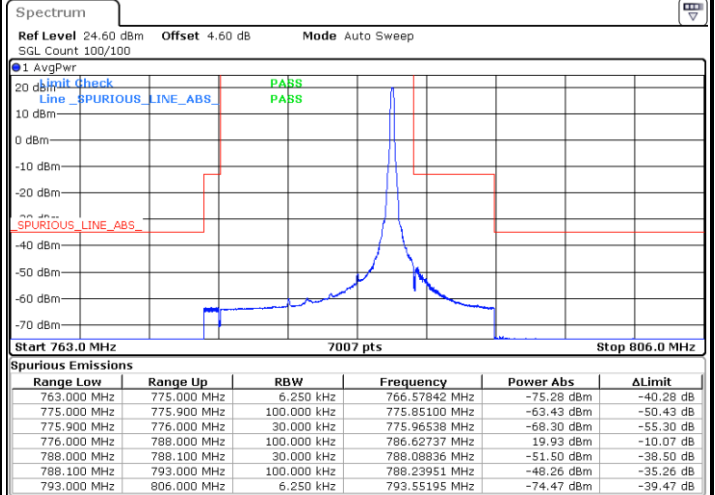
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



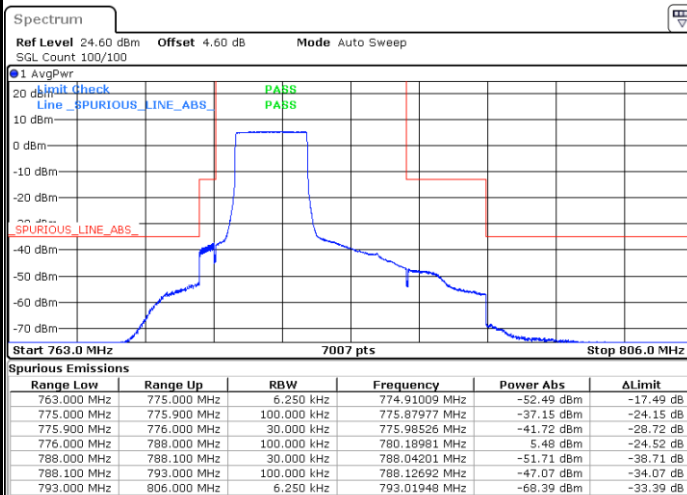
Date: 29.JUL.2024 23:20:10

### Highest Band Edge / 1 RB



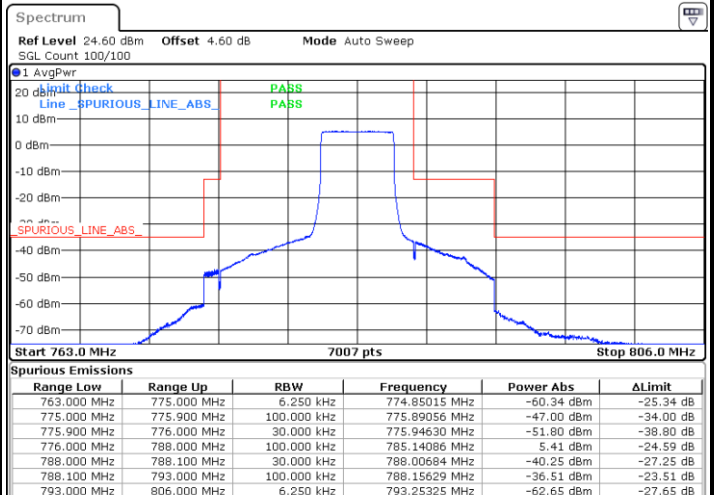
Date: 29.JUL.2024 23:39:53

### Lowest Band Edge / Full RB



Date: 29.JUL.2024 23:27:57

### Highest Band Edge / Full RB



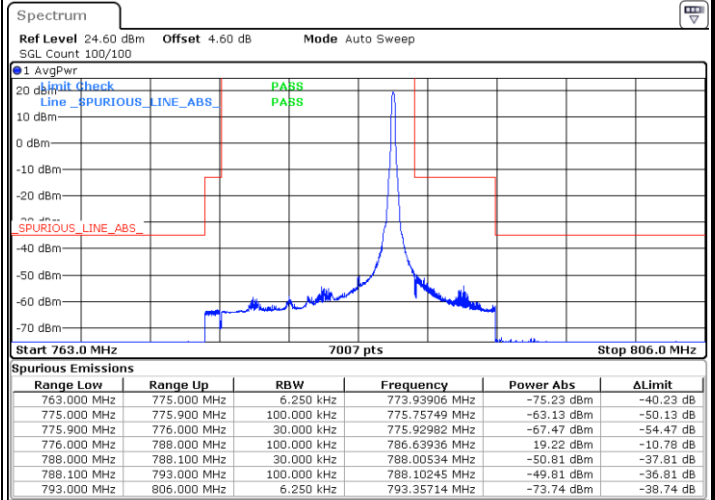
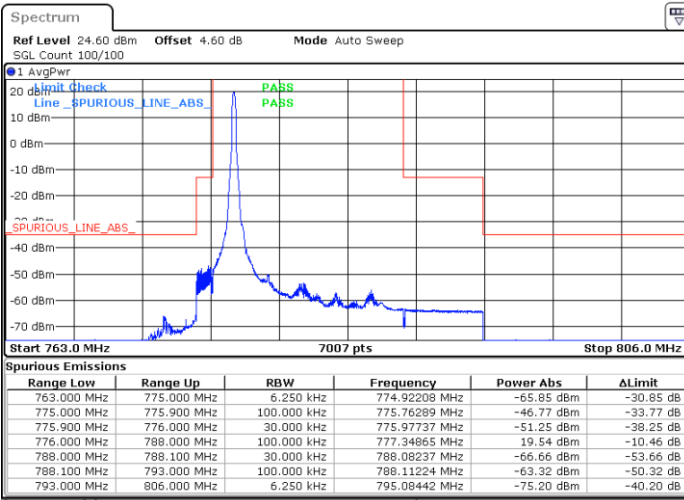
Date: 29.JUL.2024 23:47:16



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

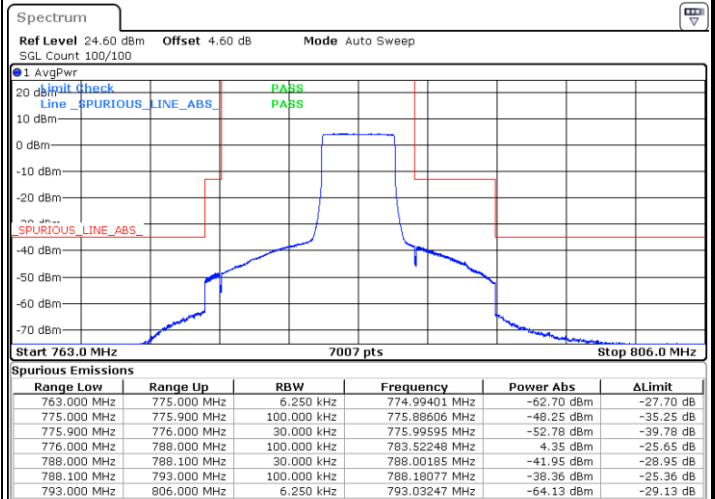
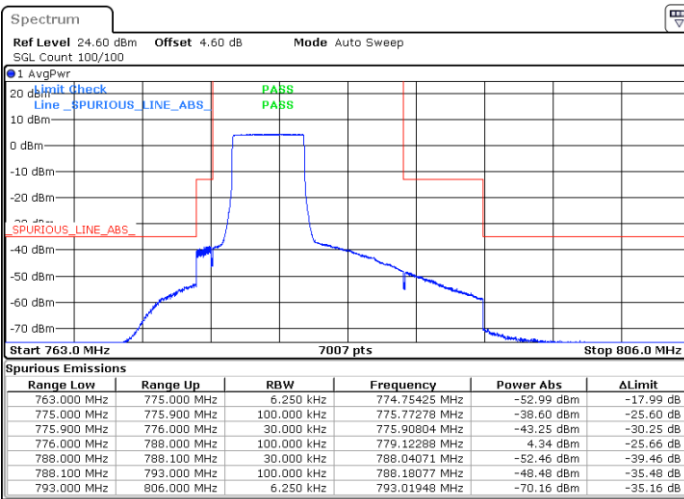


Date: 29.JUL.2024 23:22:01

Date: 29.JUL.2024 23:41:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.JUL.2024 23:29:47

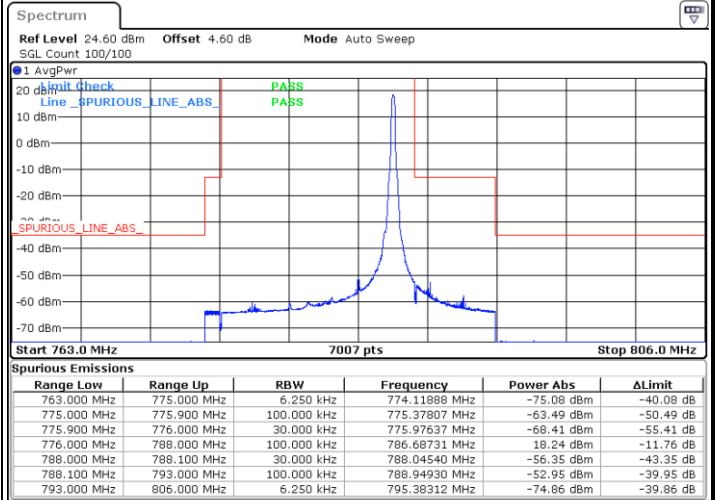
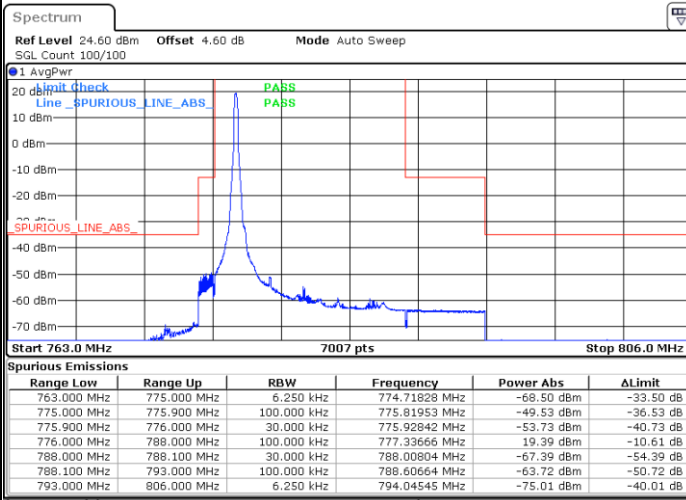
Date: 29.JUL.2024 23:49:07



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

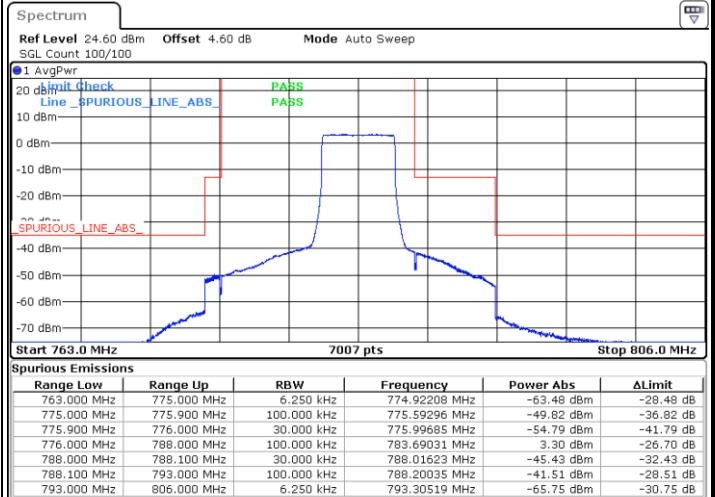
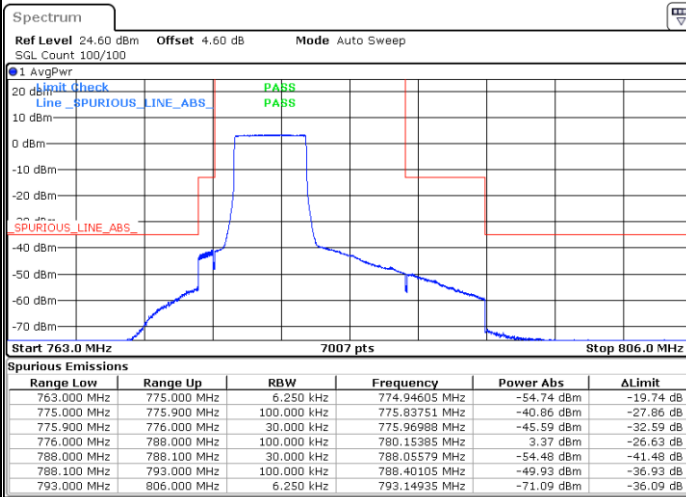


Date: 29.JUL.2024 23:23:51

Date: 29.JUL.2024 23:43:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.JUL.2024 23:31:37

Date: 29.JUL.2024 23:50:57