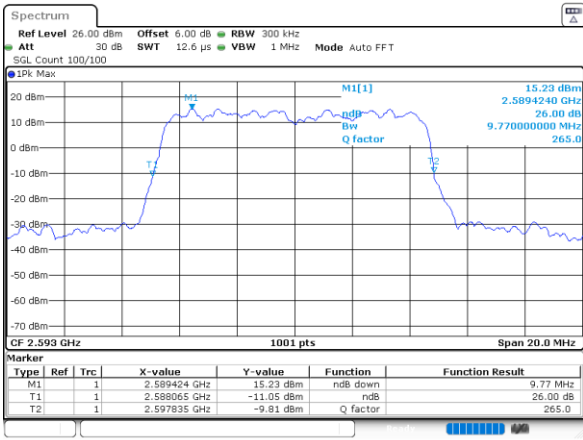




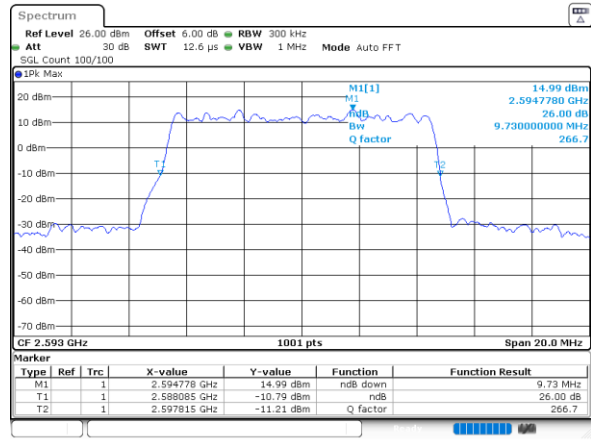
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 1.FEB.2024 11:12:30

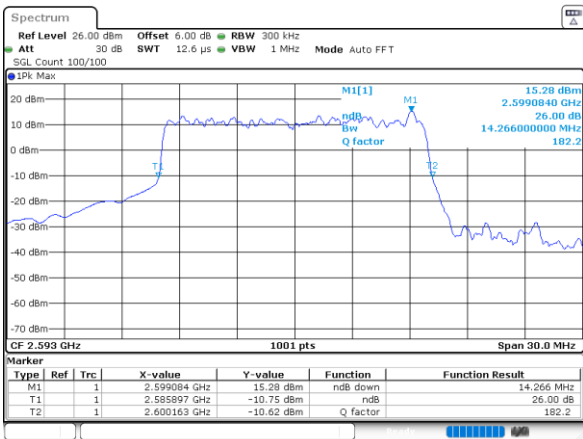
Middle Channel / 10MHz / 16QAM



Date: 1.FEB.2024 11:12:51

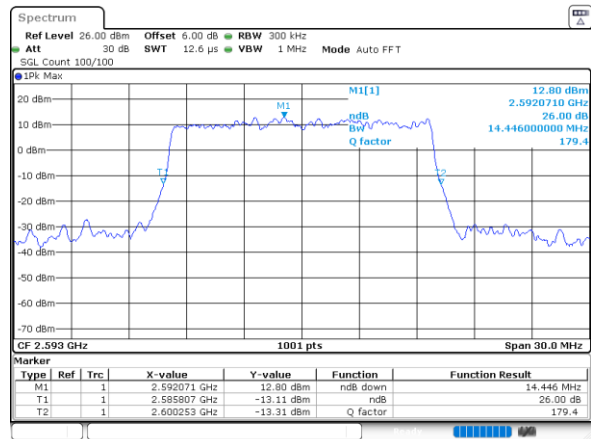
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 1.FEB.2024 11:13:54

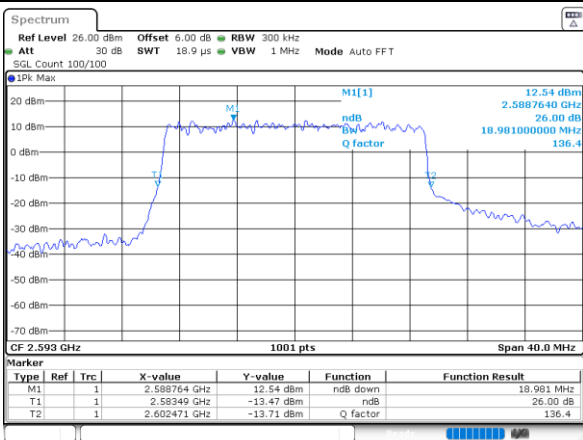
Middle Channel / 15MHz / 16QAM



Date: 1.FEB.2024 11:14:15

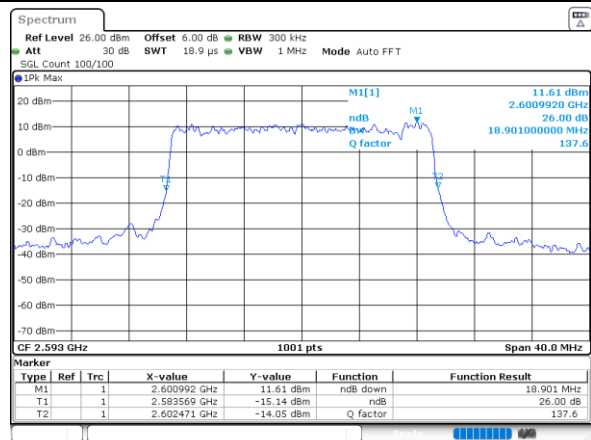
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 1.FEB.2024 11:15:19

Middle Channel / 20MHz / 16QAM

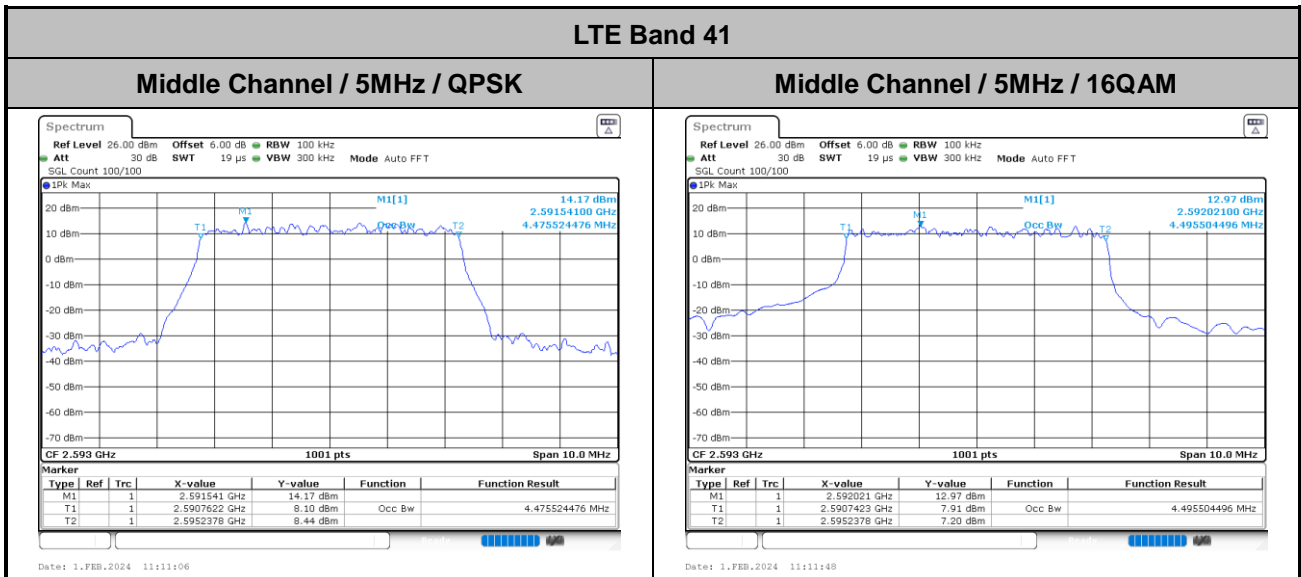


Date: 1.FEB.2024 11:15:39



## Occupied Bandwidth

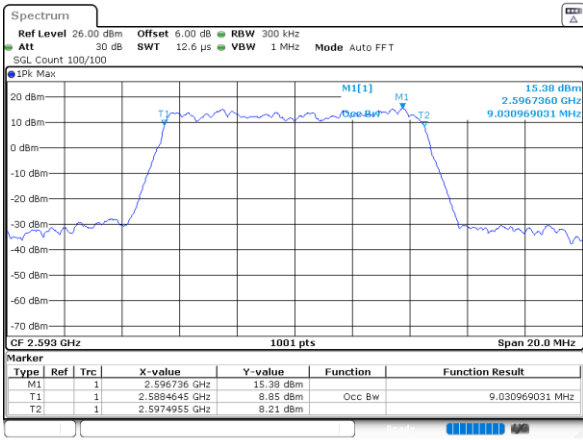
Mode	LTE Band 41 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.48	4.50
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.03	8.99
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.43	13.46
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.98	17.94



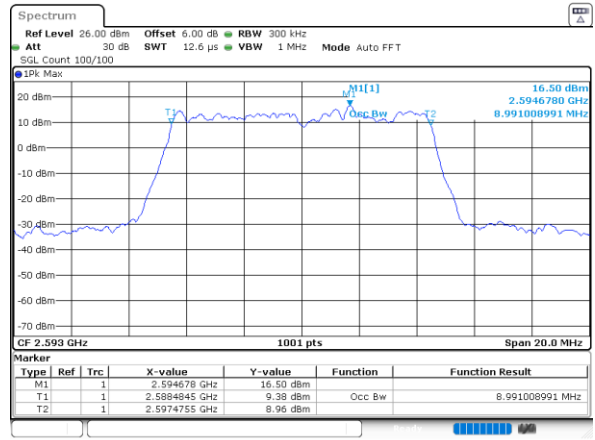


LTE Band 41

Middle Channel / 10MHz / QPSK

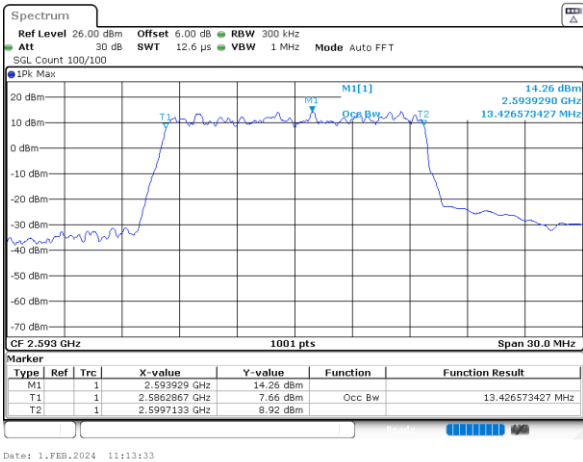


Middle Channel / 10MHz / 16QAM

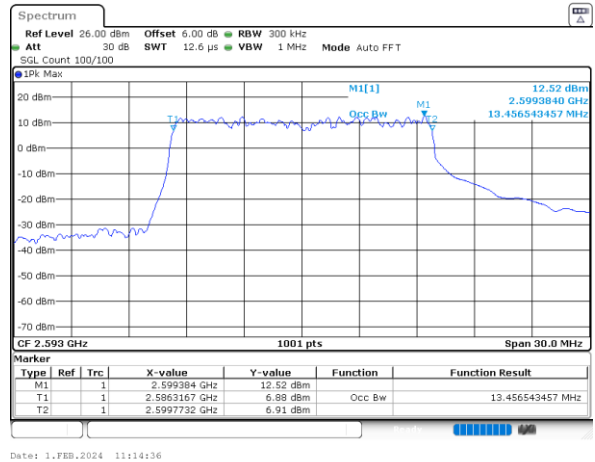


LTE Band 41

Middle Channel / 15MHz / QPSK

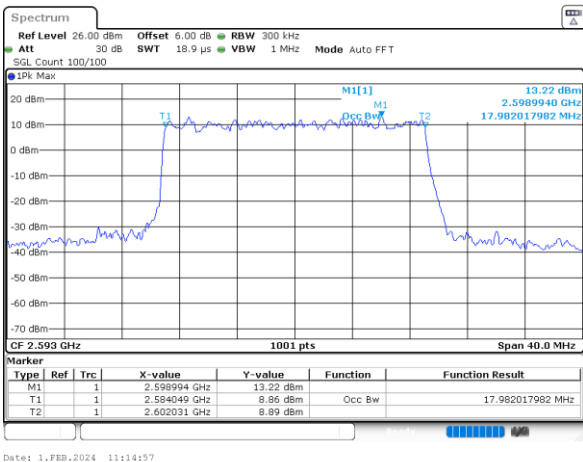


Middle Channel / 15MHz / 16QAM

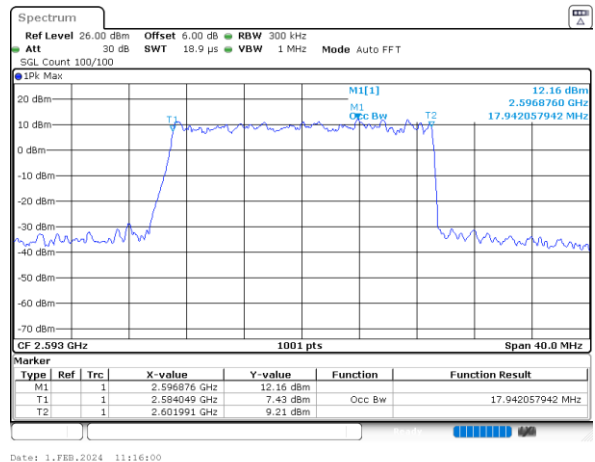


LTE Band 41

Middle Channel / 20MHz / QPSK

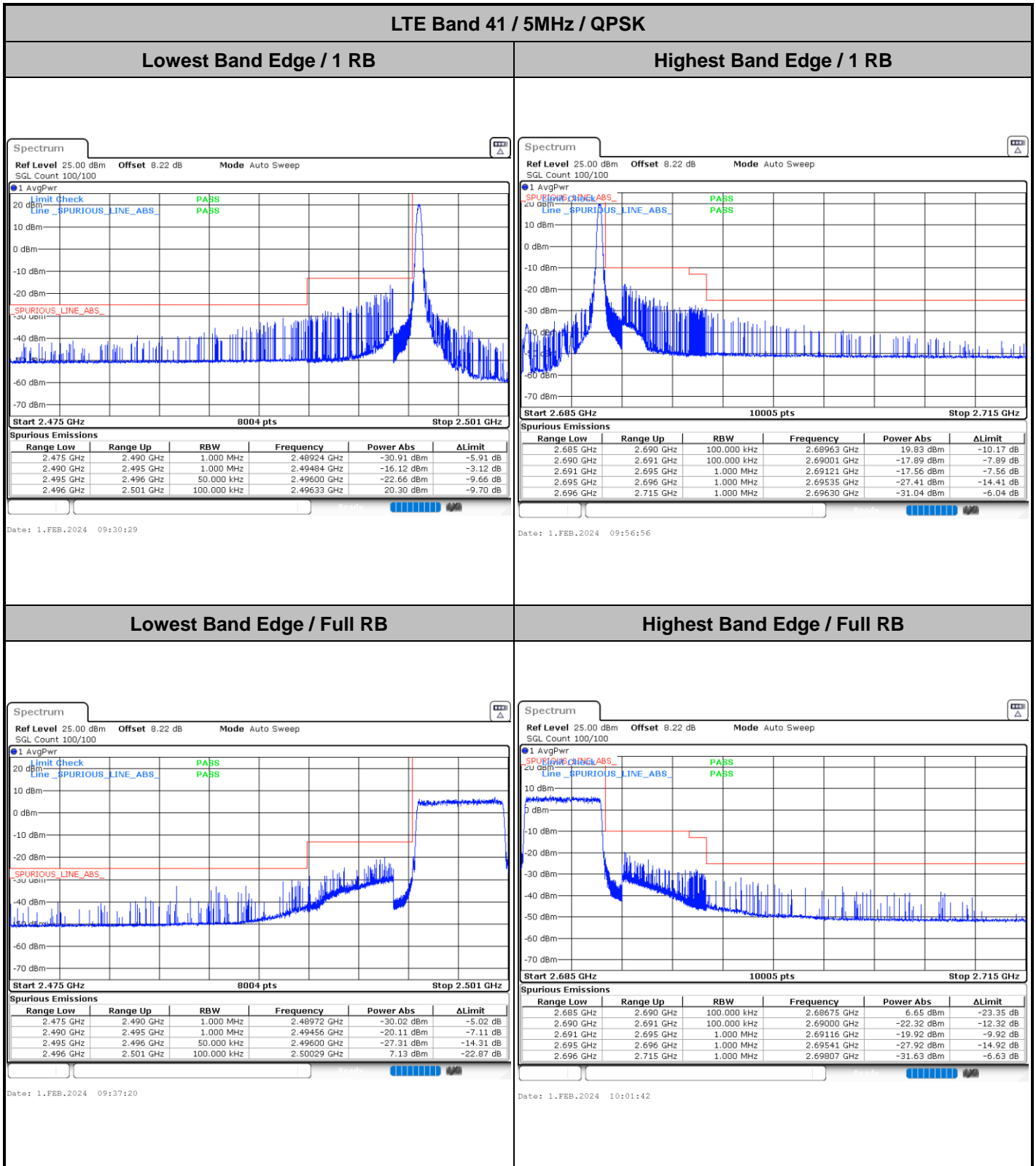


Middle Channel / 20MHz / 16QAM





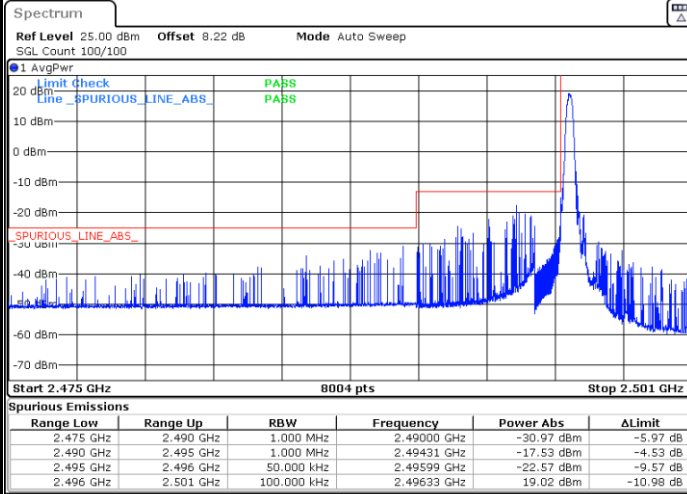
# Conducted Band Edge





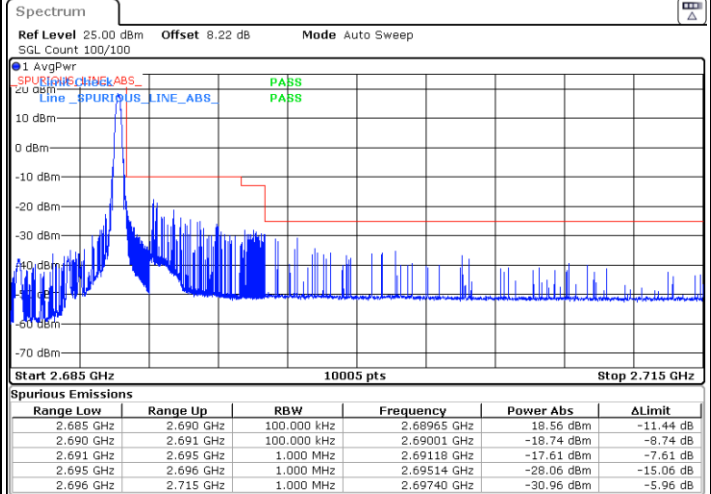
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



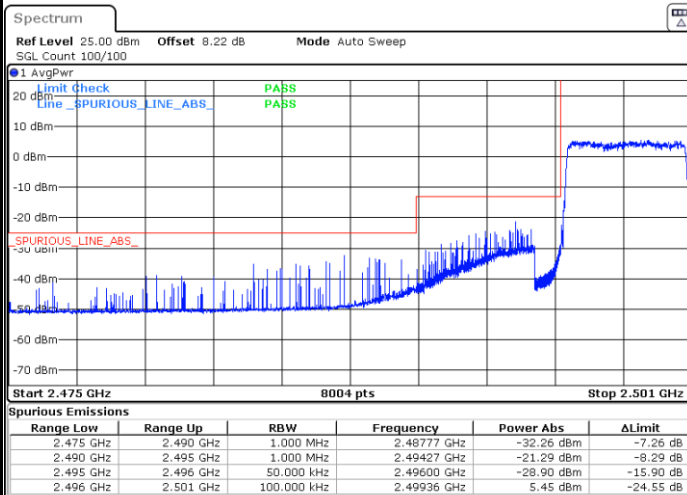
Date: 1.FEB.2024 09:31:20

Highest Band Edge / 1 RB



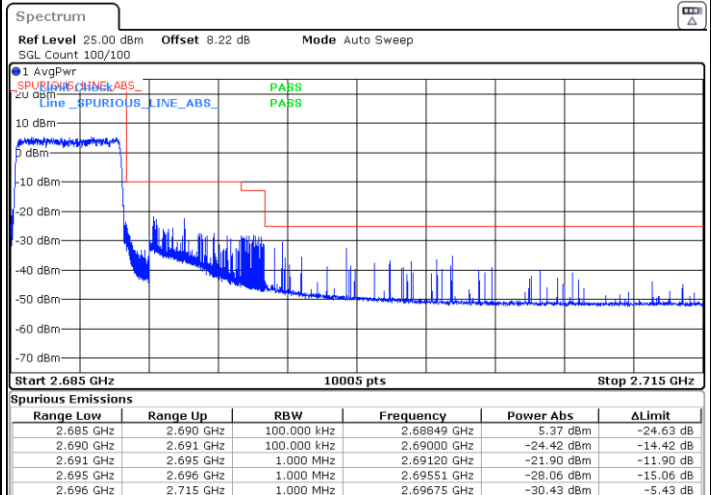
Date: 1.FEB.2024 09:57:36

Lowest Band Edge / Full RB



Date: 1.FEB.2024 09:36:40

Highest Band Edge / Full RB

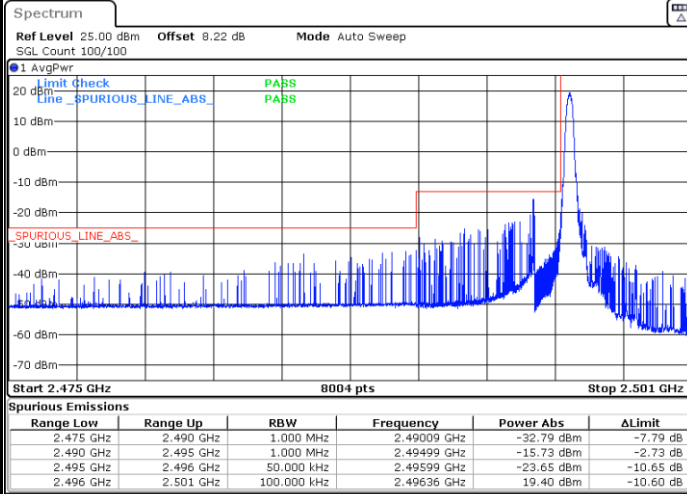


Date: 1.FEB.2024 10:01:02



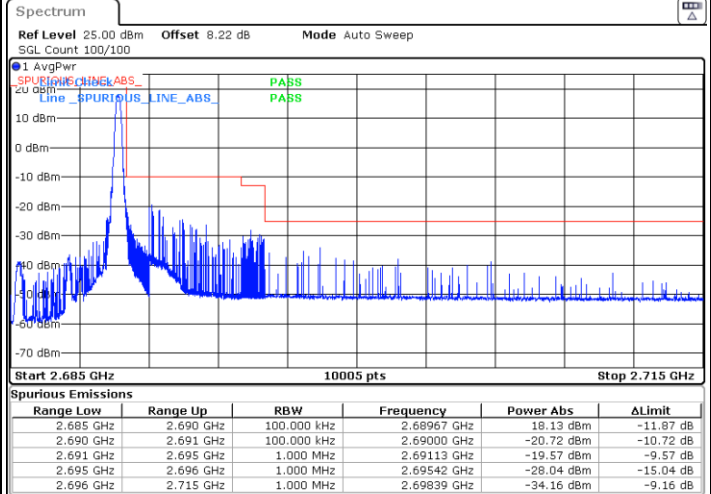
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



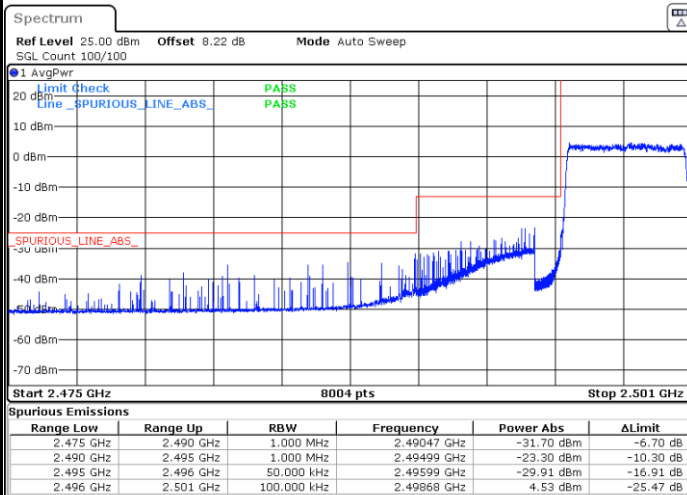
Date: 1.FEB.2024 09:32:10

Highest Band Edge / 1 RB



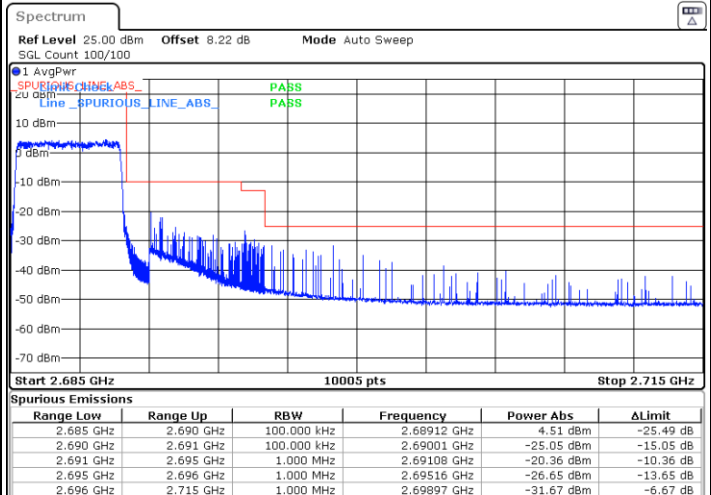
Date: 1.FEB.2024 09:58:16

Lowest Band Edge / Full RB



Date: 1.FEB.2024 09:35:59

Highest Band Edge / Full RB



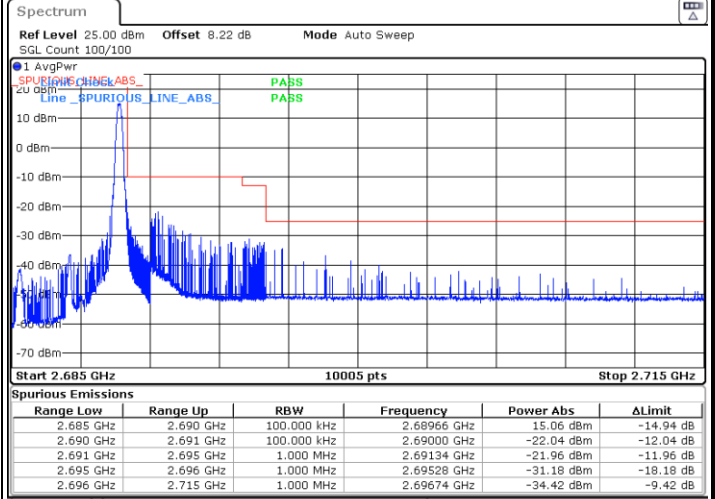
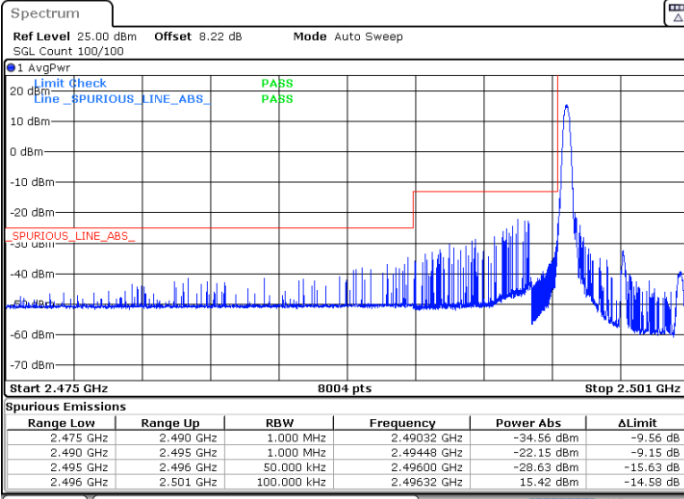
Date: 1.FEB.2024 10:00:22



LTE Band 41 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

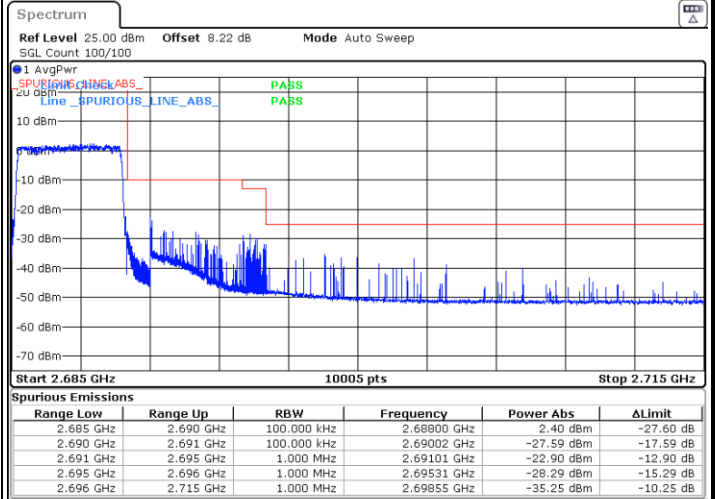
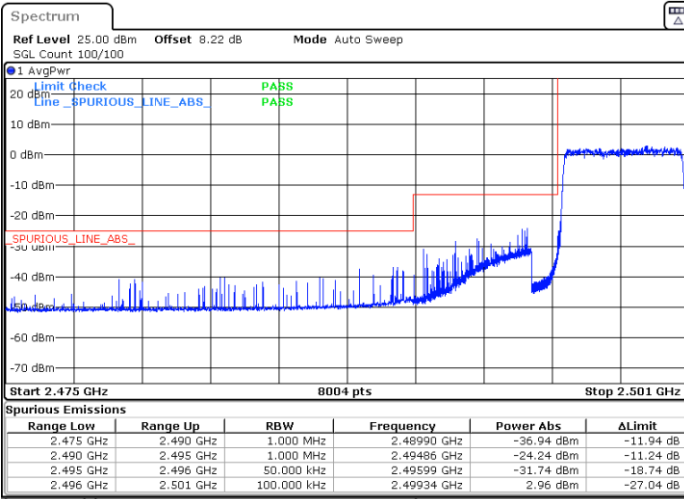


Date: 1.FEB.2024 09:32:51

Date: 1.FEB.2024 09:58:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



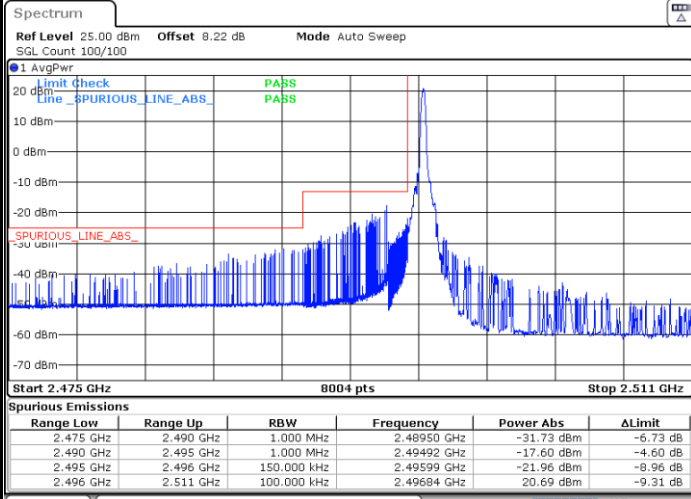
Date: 1.FEB.2024 09:35:16

Date: 1.FEB.2024 09:59:39



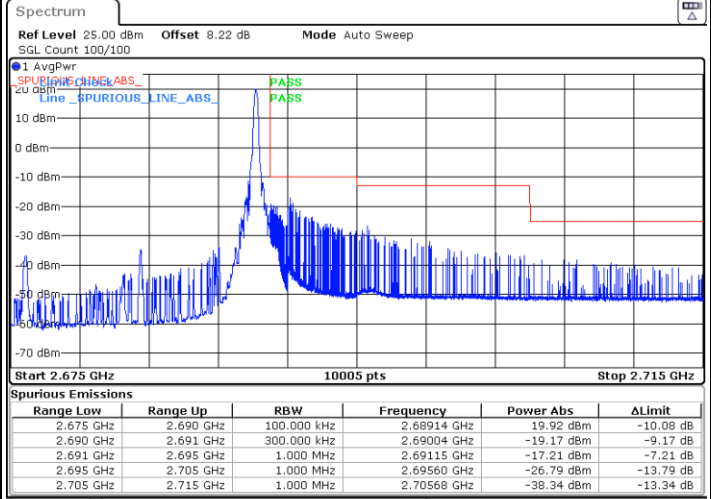
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



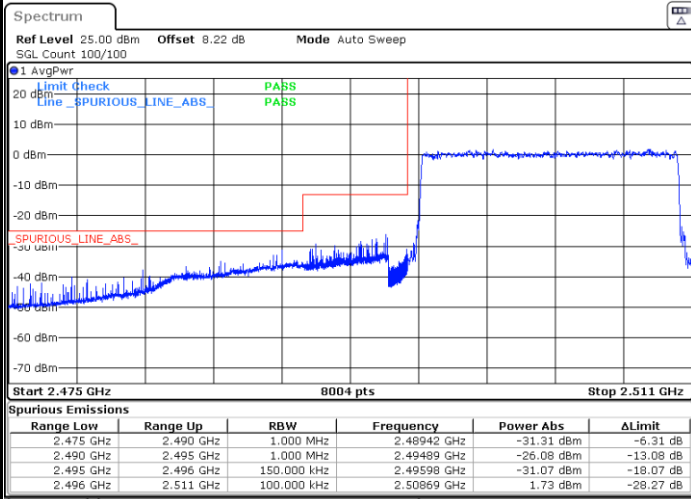
Date: 1.FEB.2024 10:30:47

Highest Band Edge / 1 RB



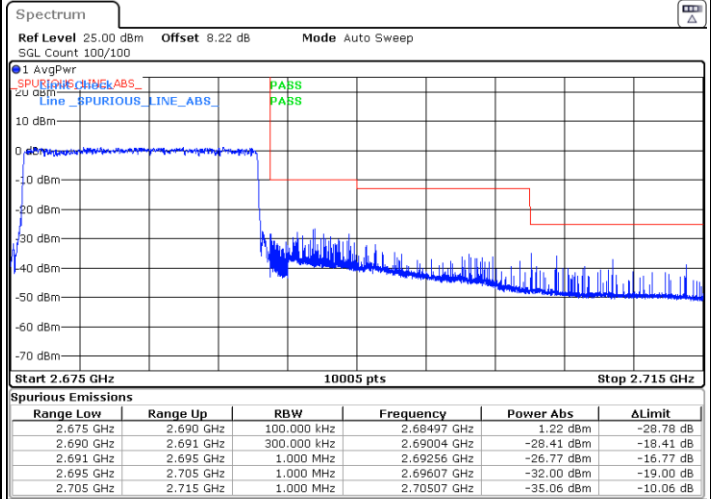
Date: 1.FEB.2024 10:39:31

Lowest Band Edge / Full RB



Date: 1.FEB.2024 10:33:30

Highest Band Edge / Full RB



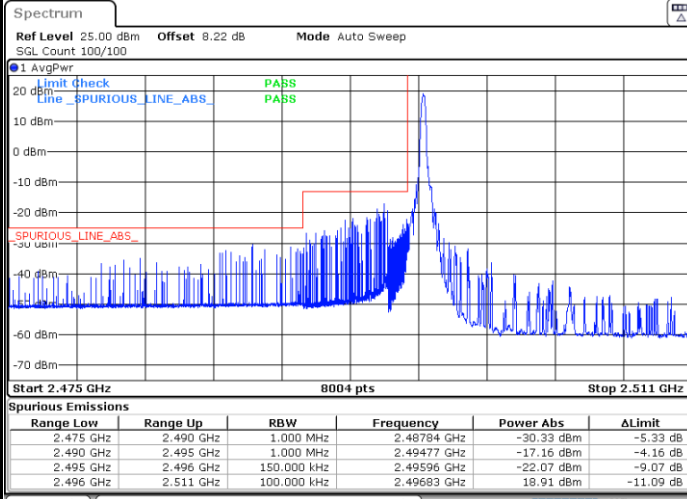
Date: 1.FEB.2024 10:42:18





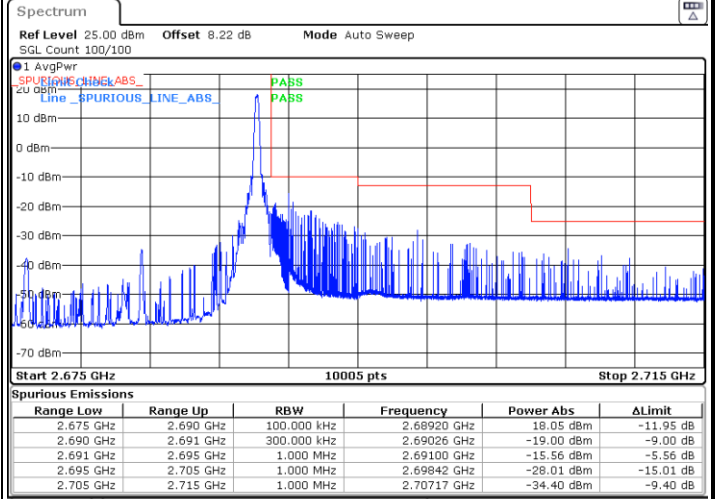
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



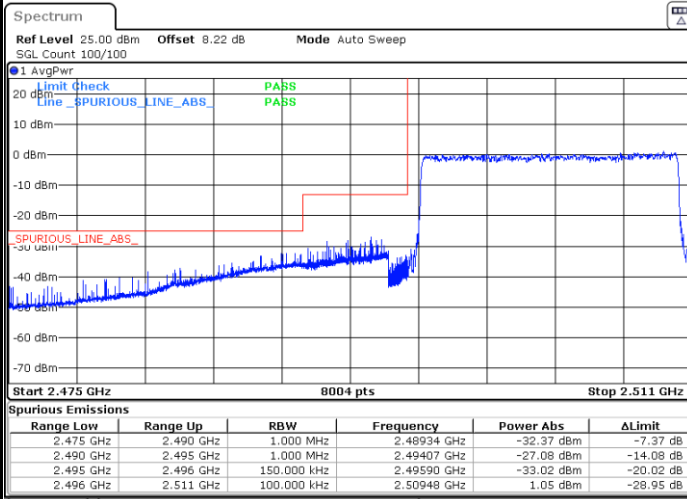
Date: 1.FEB.2024 10:31:28

Highest Band Edge / 1 RB



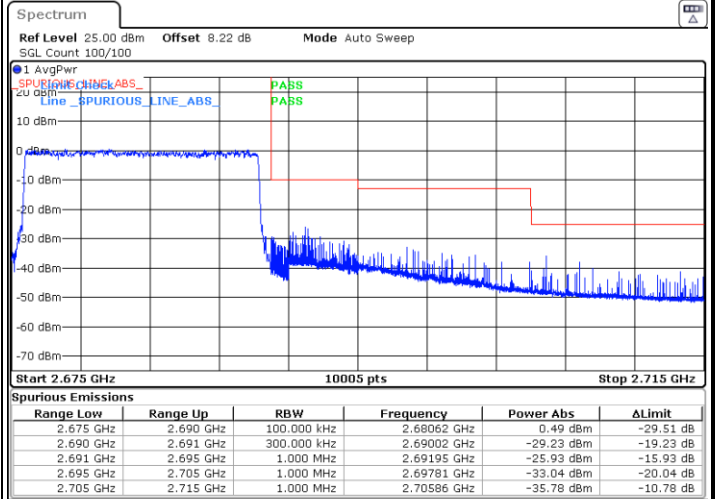
Date: 1.FEB.2024 10:40:11

Lowest Band Edge / Full RB



Date: 1.FEB.2024 10:34:10

Highest Band Edge / Full RB

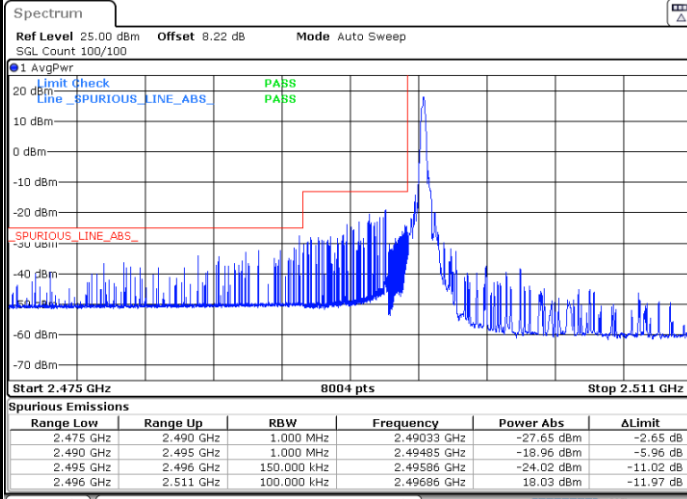


Date: 1.FEB.2024 10:42:58



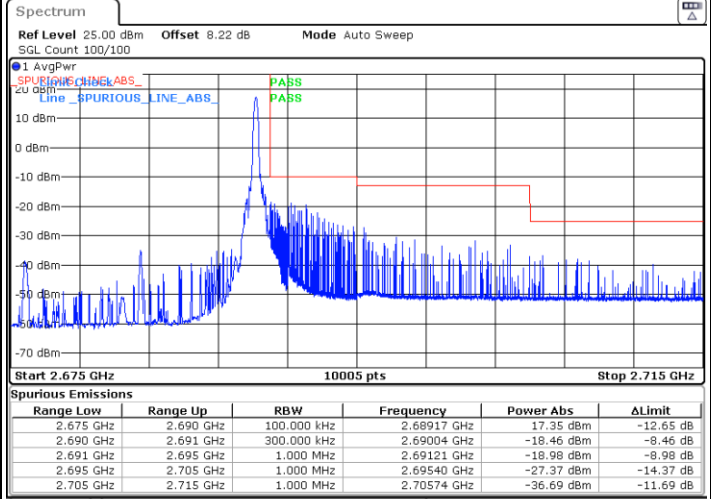
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



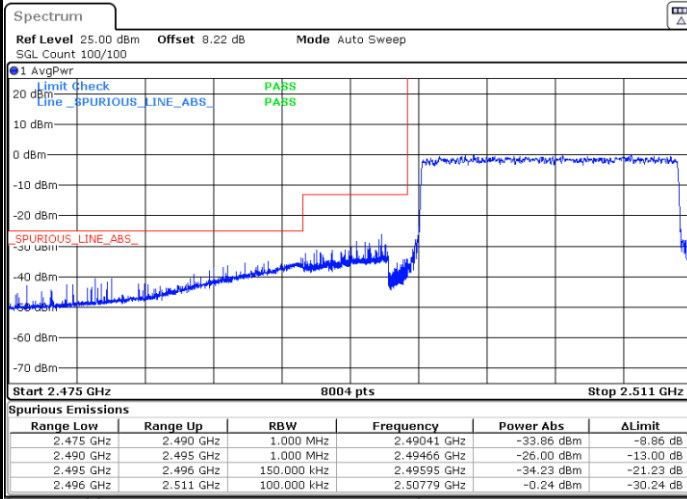
Date: 1.FEB.2024 10:32:09

Highest Band Edge / 1 RB



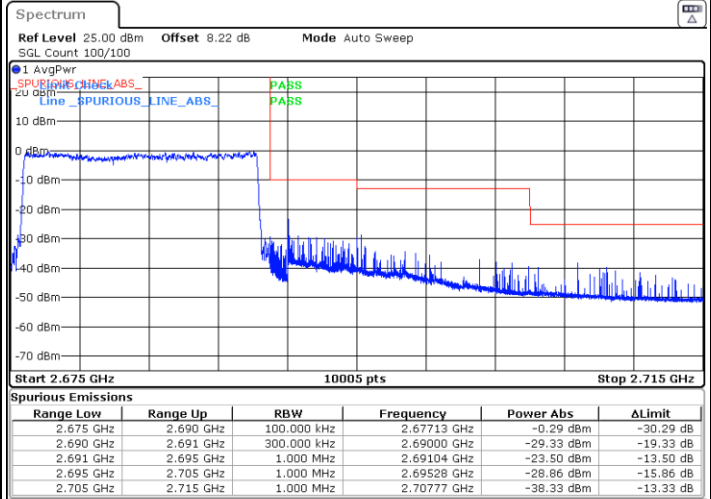
Date: 1.FEB.2024 10:40:51

Lowest Band Edge / Full RB



Date: 1.FEB.2024 10:34:50

Highest Band Edge / Full RB



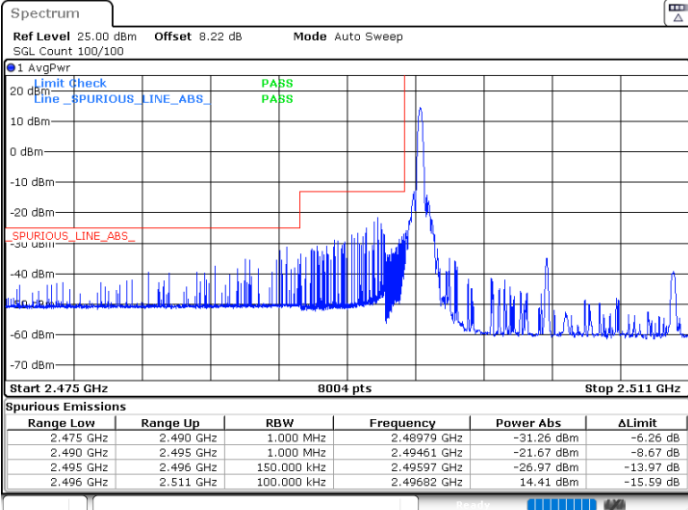
Date: 1.FEB.2024 10:43:39



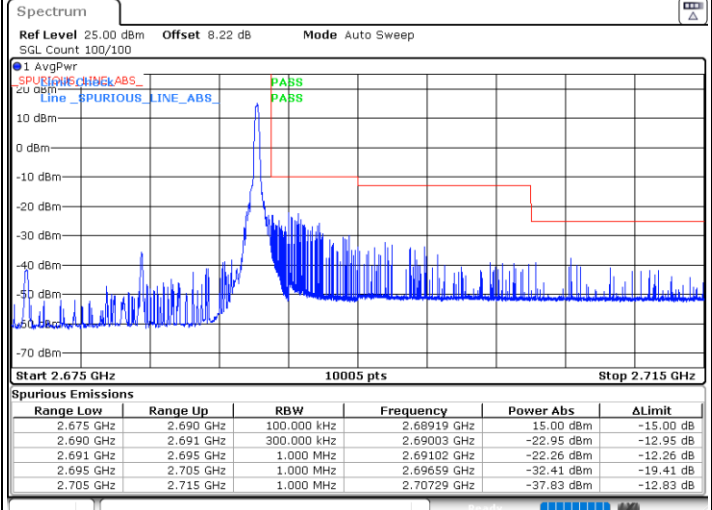
LTE Band 41 / 15MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



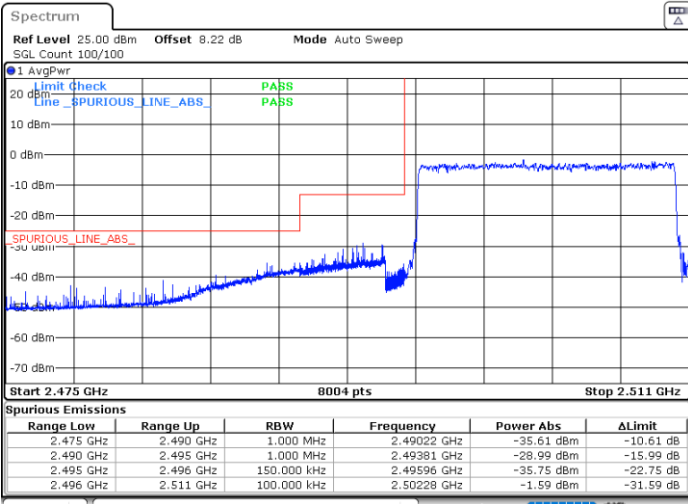
Date: 1.FEB.2024 10:32:49



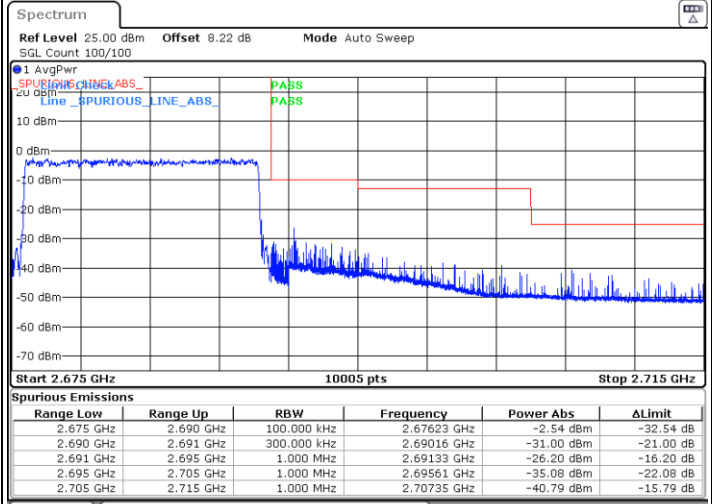
Date: 1.FEB.2024 10:41:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.FEB.2024 10:35:31

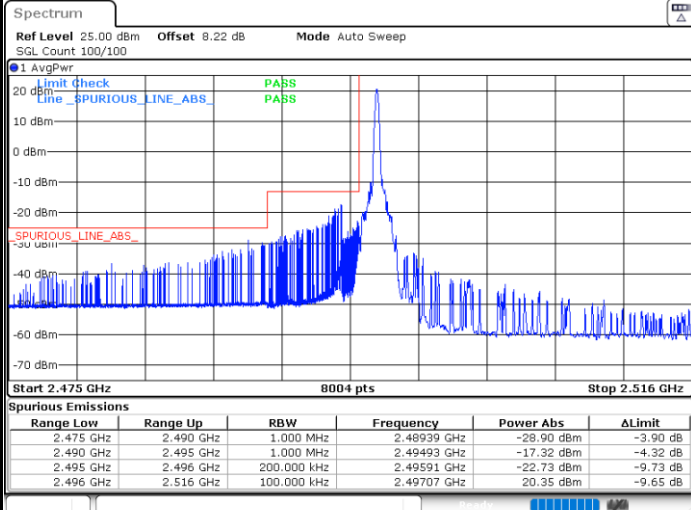


Date: 1.FEB.2024 10:44:20



LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



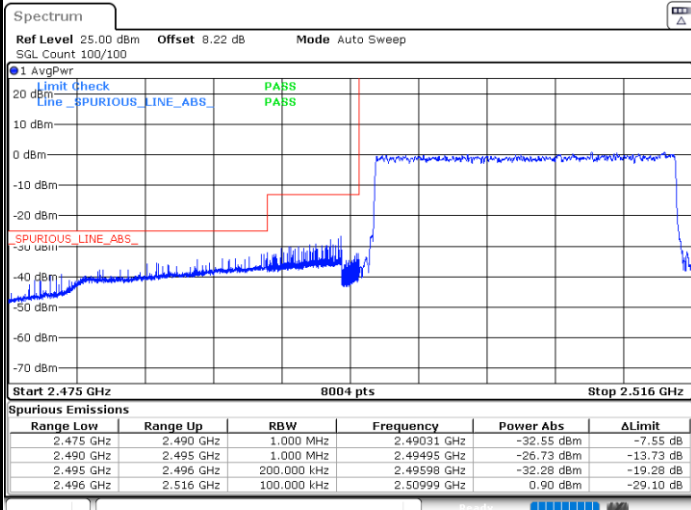
Date: 1.FEB.2024 10:52:27

Highest Band Edge / 1 RB



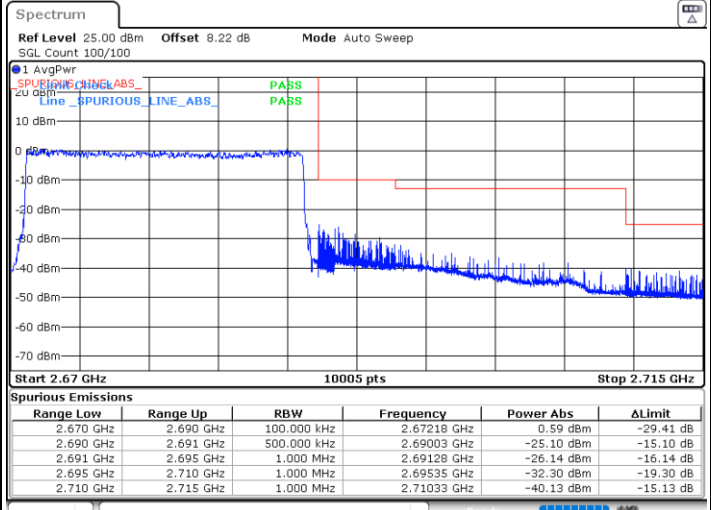
Date: 1.FEB.2024 11:03:33

Lowest Band Edge / Full RB



Date: 1.FEB.2024 10:55:13

Highest Band Edge / Full RB

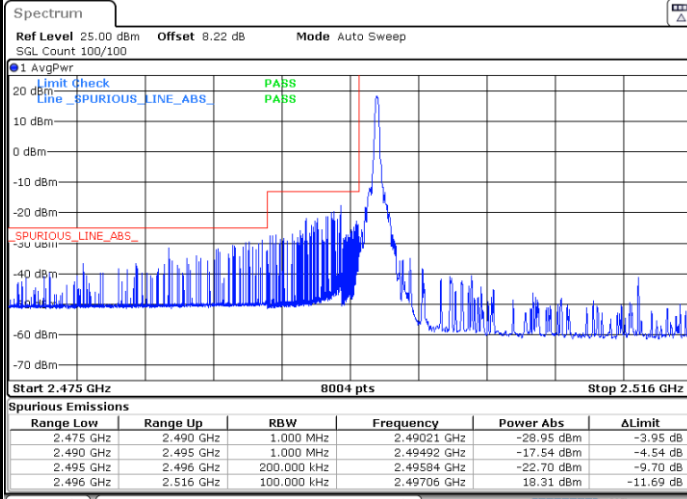


Date: 1.FEB.2024 11:06:16



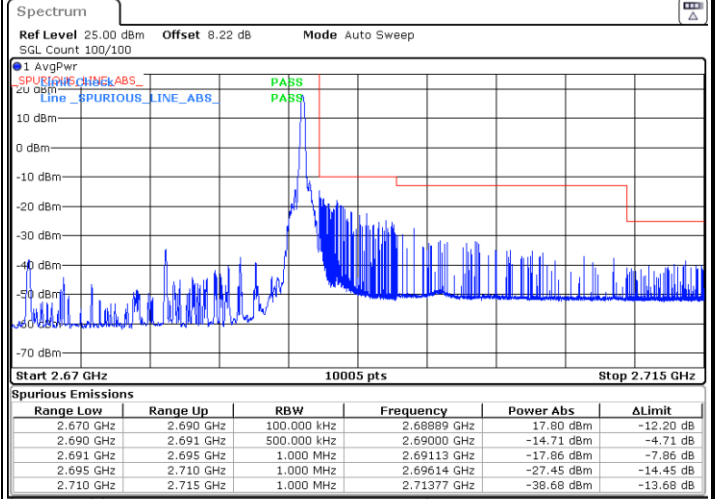
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



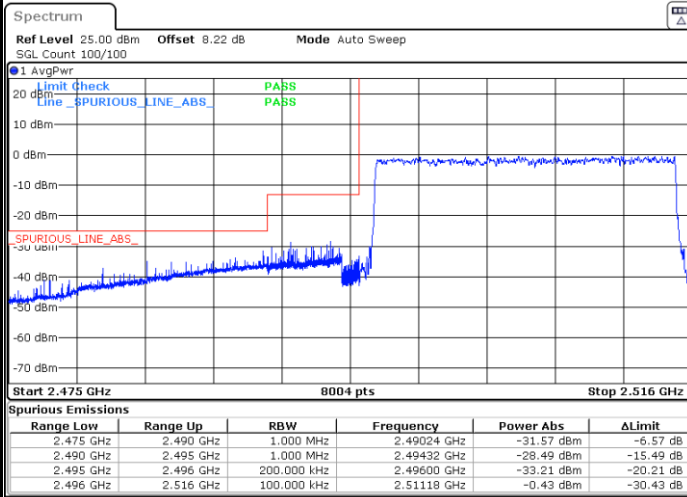
Date: 1.FEB.2024 10:53:08

Highest Band Edge / 1 RB



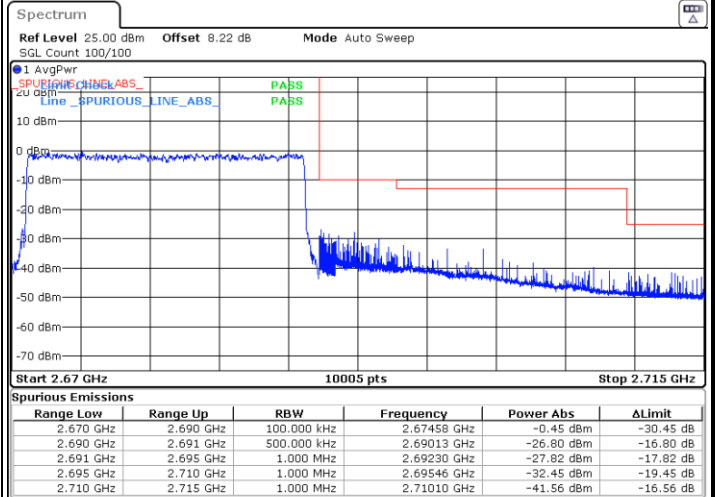
Date: 1.FEB.2024 11:04:13

Lowest Band Edge / Full RB



Date: 1.FEB.2024 10:55:54

Highest Band Edge / Full RB

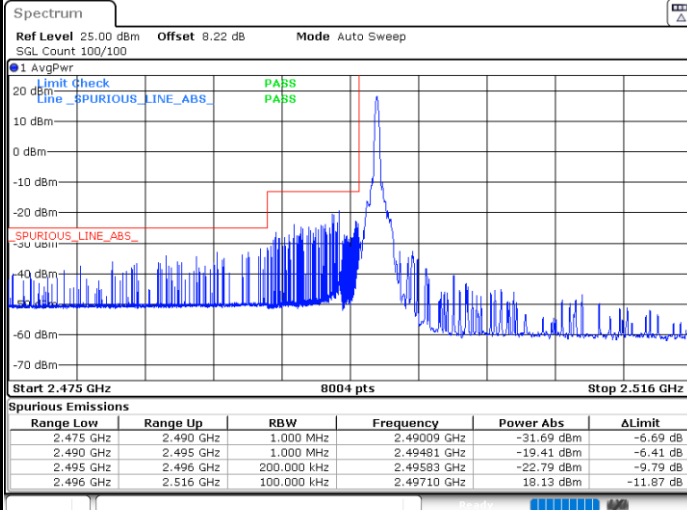


Date: 1.FEB.2024 11:06:56



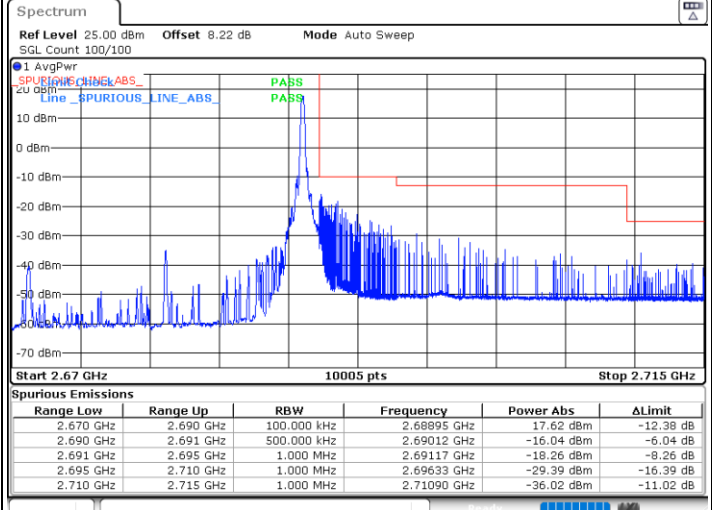
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



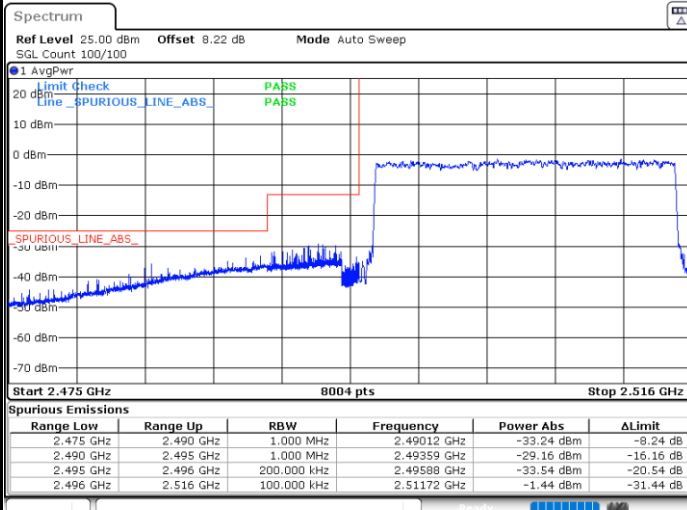
Date: 1.FEB.2024 10:53:49

Highest Band Edge / 1 RB



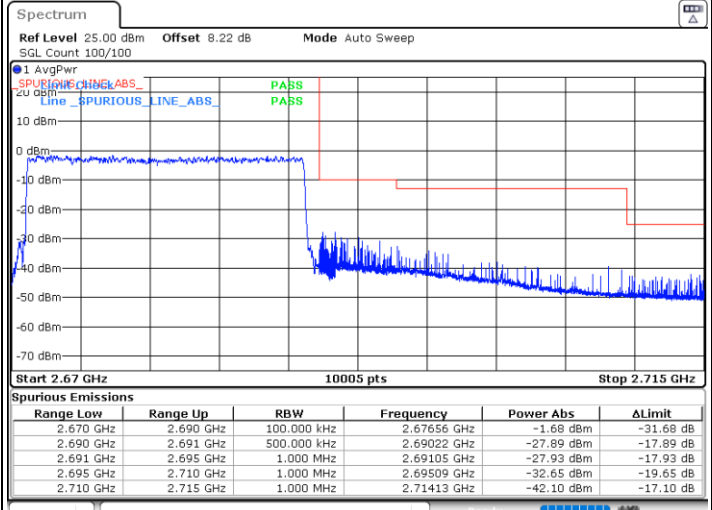
Date: 1.FEB.2024 11:04:53

Lowest Band Edge / Full RB



Date: 1.FEB.2024 10:56:35

Highest Band Edge / Full RB



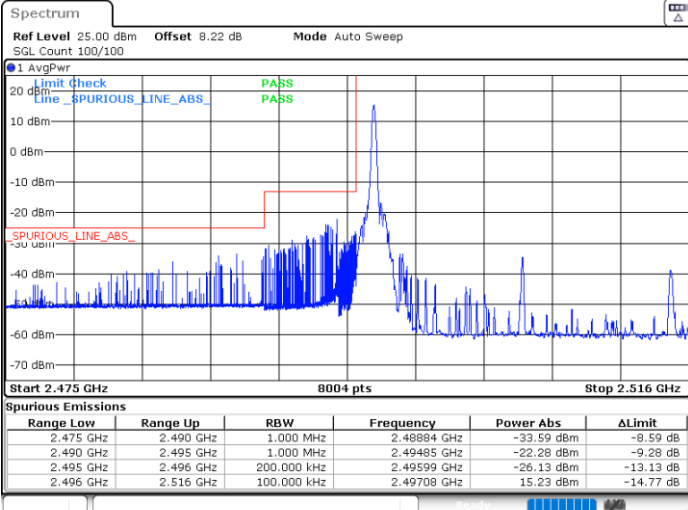
Date: 1.FEB.2024 11:07:36



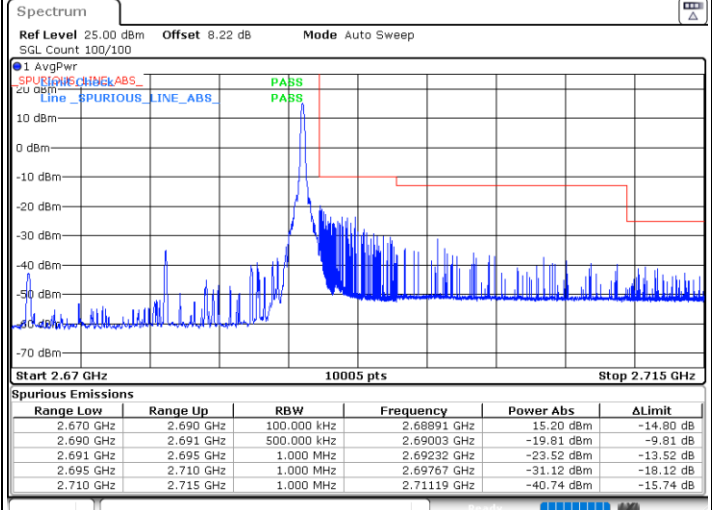
LTE Band 41 / 20MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



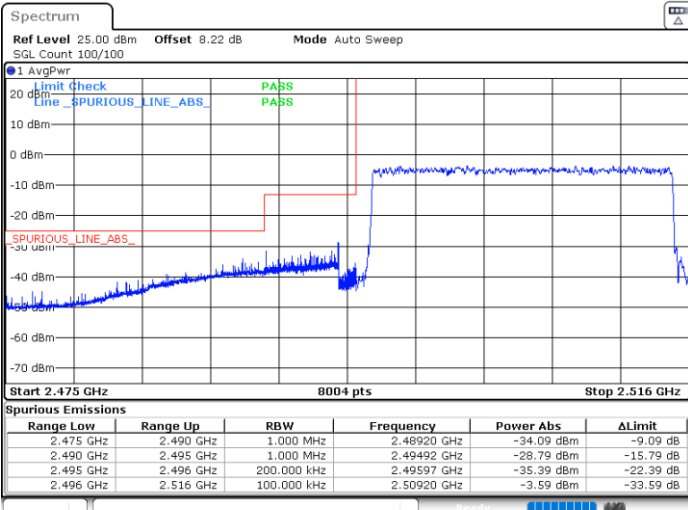
Date: 1.FEB.2024 10:54:30



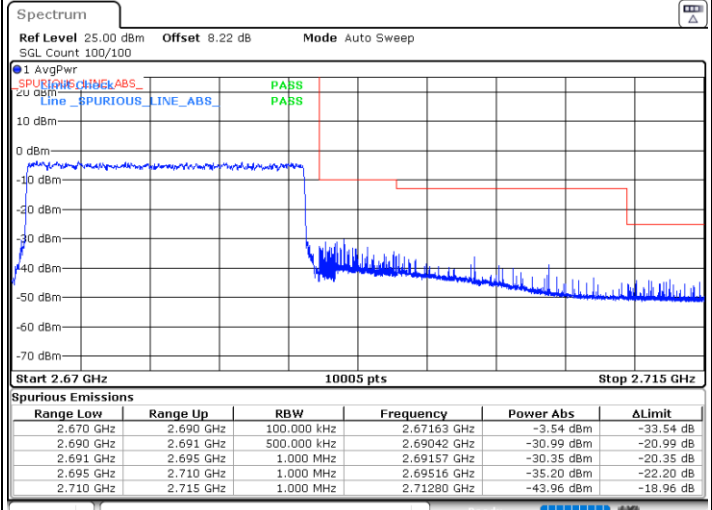
Date: 1.FEB.2024 11:05:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



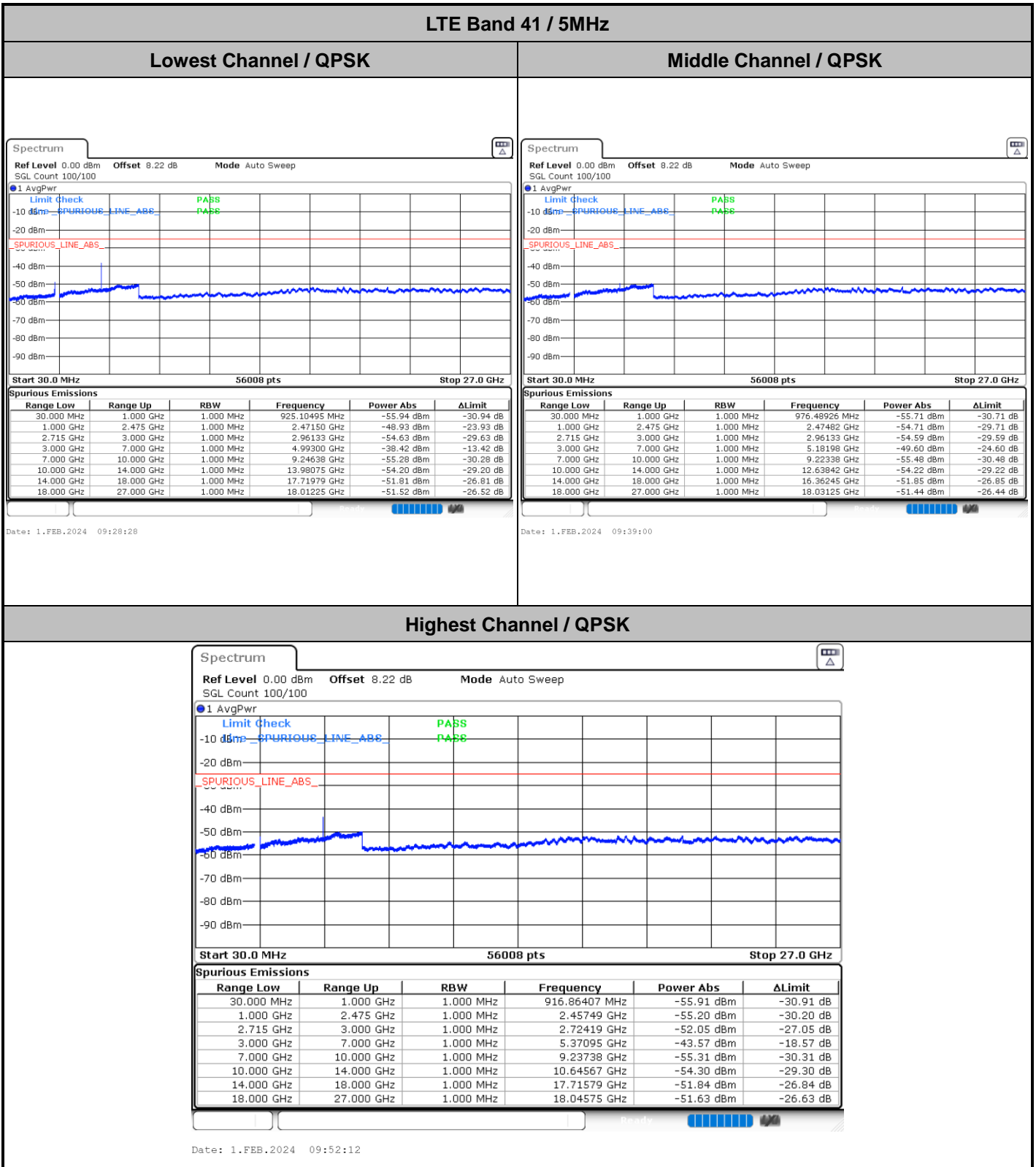
Date: 1.FEB.2024 10:57:15



Date: 1.FEB.2024 11:08:16



# Conducted Spurious Emission



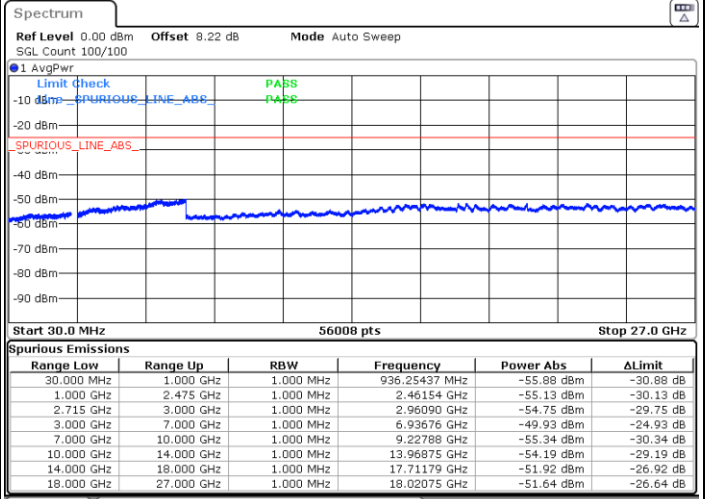
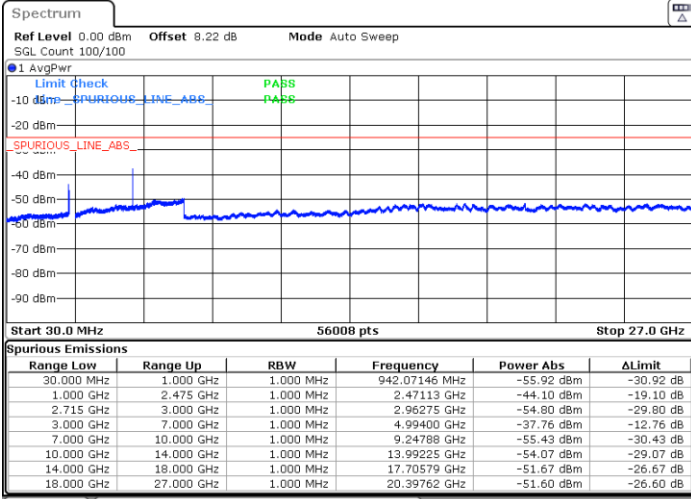




LTE Band 41 / 15MHz

Lowest Channel / QPSK

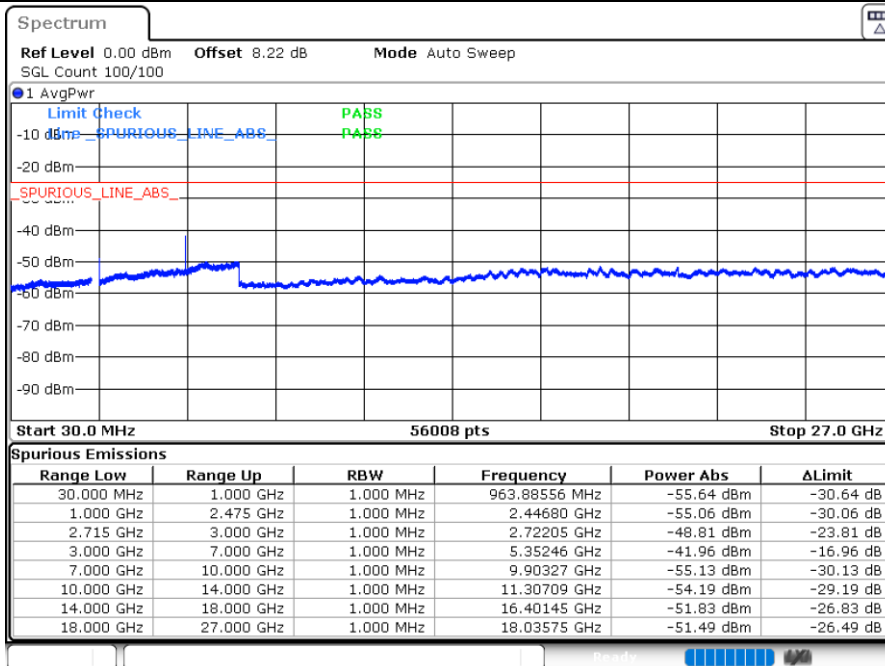
Middle Channel / QPSK



Date: 1.FEB.2024 10:30:06

Date: 1.FEB.2024 10:37:11

Highest Channel / QPSK



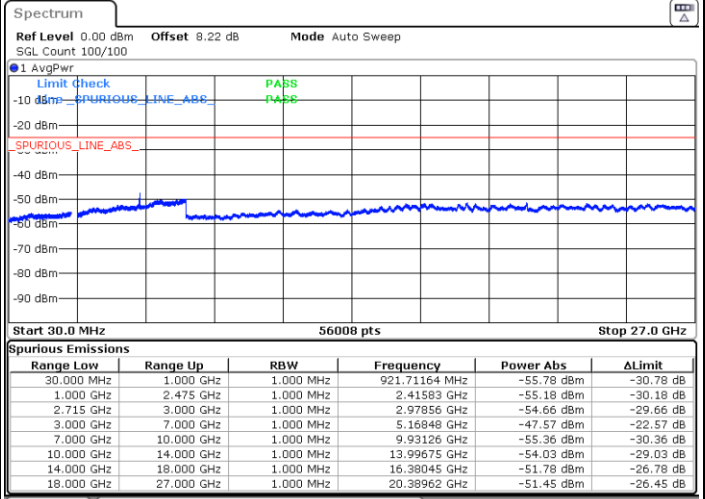
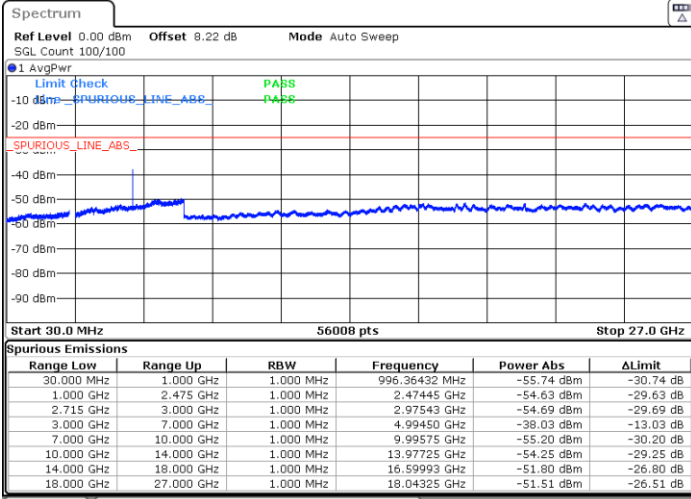
Date: 1.FEB.2024 10:38:50



LTE Band 41 / 20MHz

Lowest Channel / QPSK

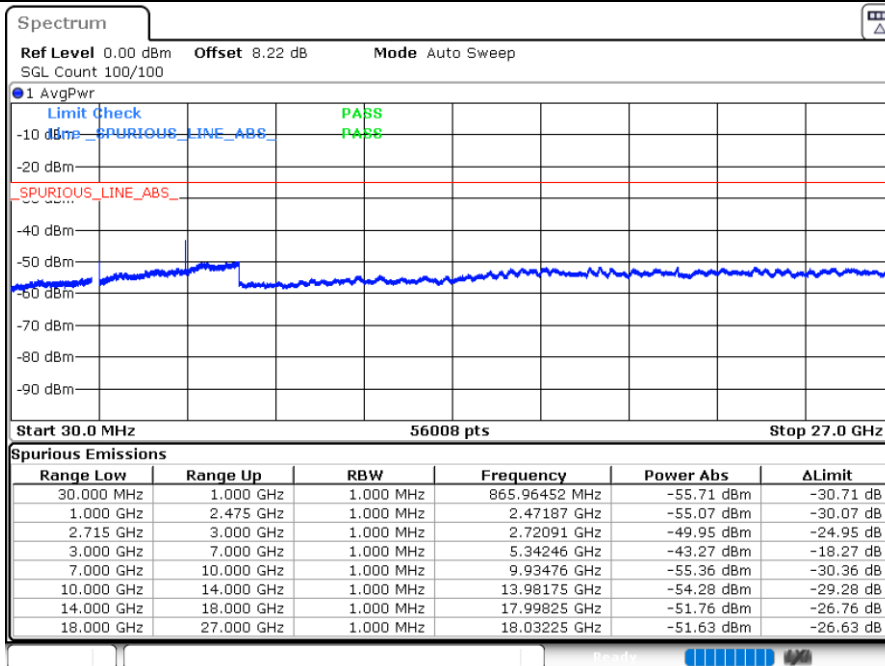
Middle Channel / QPSK



Date: 1.FEB.2024 10:51:46

Date: 1.FEB.2024 11:01:12

Highest Channel / QPSK



Date: 1.FEB.2024 11:02:52



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0092	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0104	
-30	Normal Voltage	0.0081	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0051	

Note:

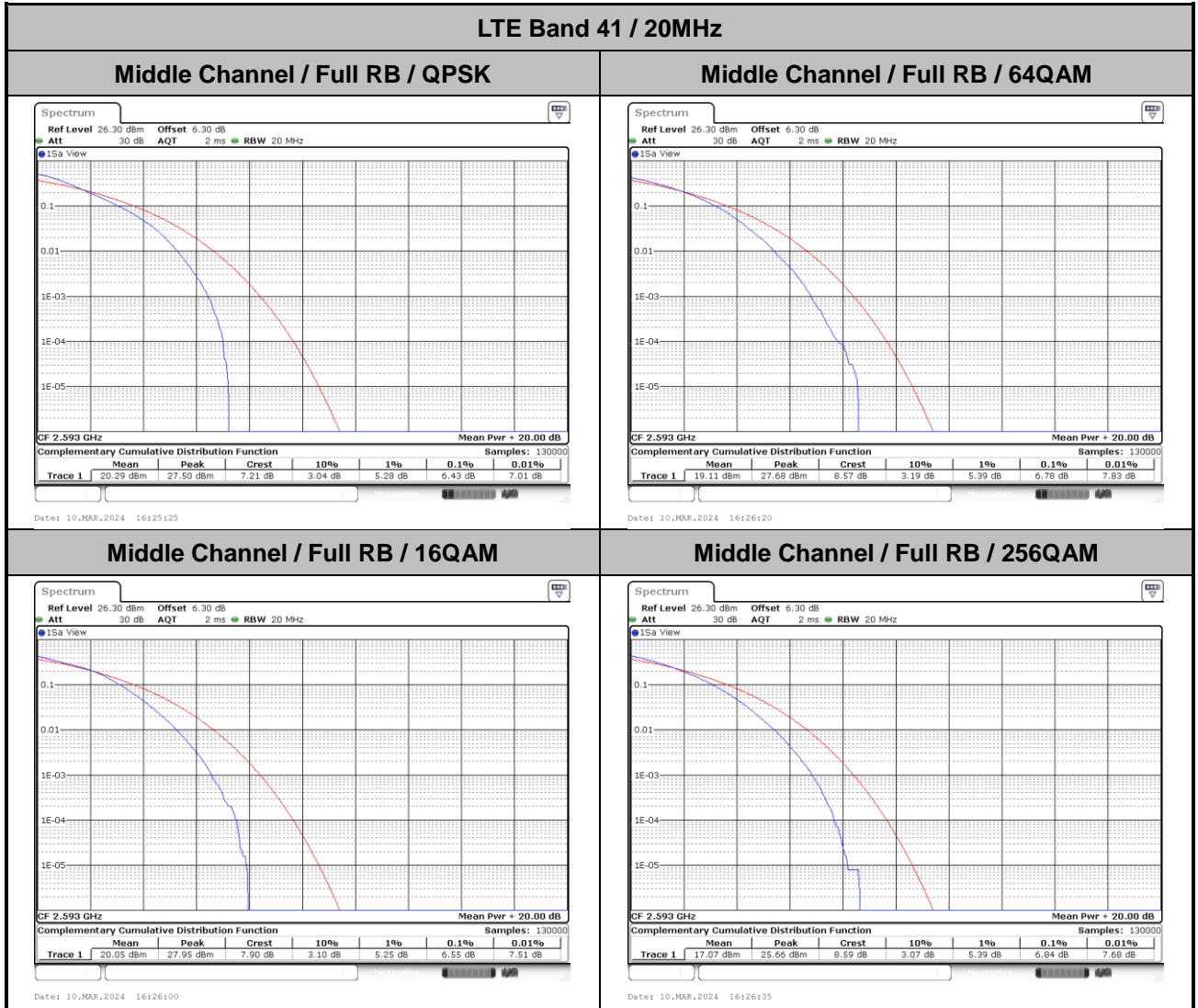
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41(Other PA)

## Peak-to-Average Ratio

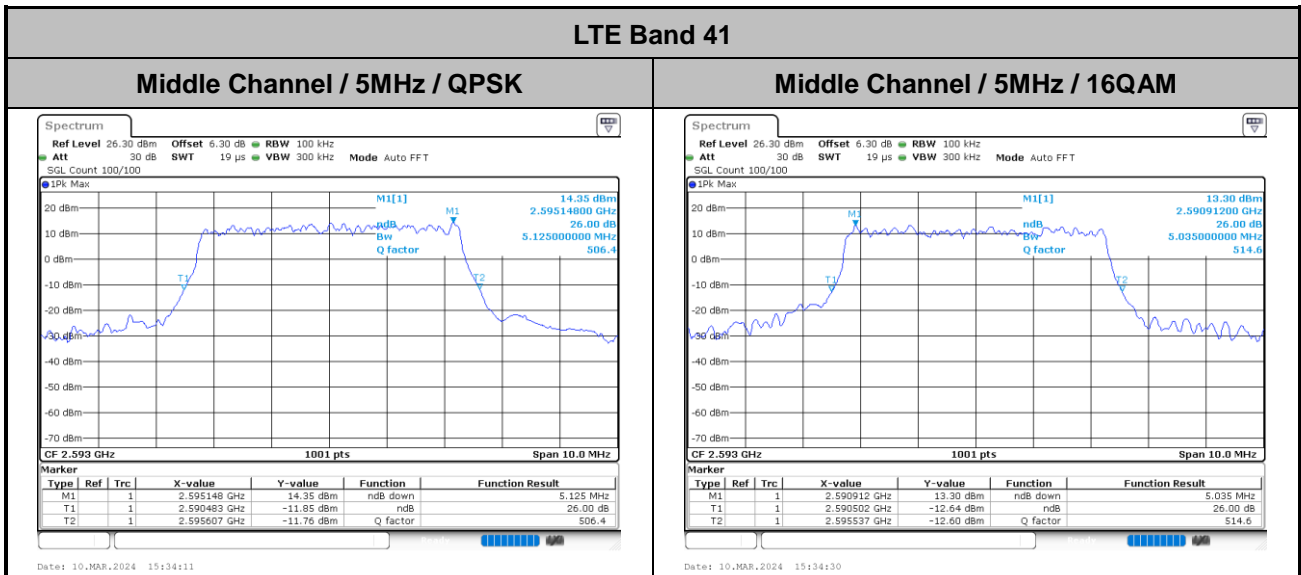
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.43	6.55	6.78	6.84	PASS





## 26dB Bandwidth

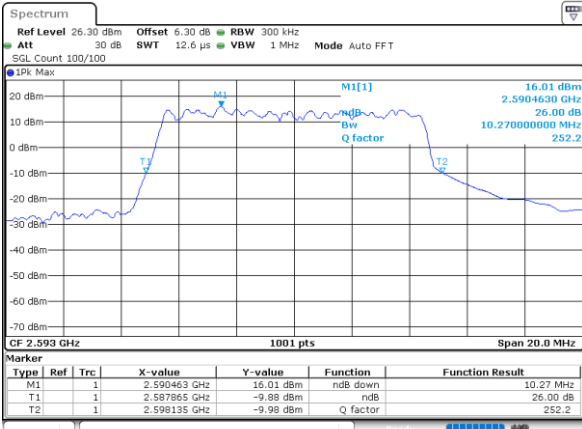
Mode	LTE Band 41 : 26dB BW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	5.13	5.04
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	10.27	9.99
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	14.78	14.48
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.74	19.06





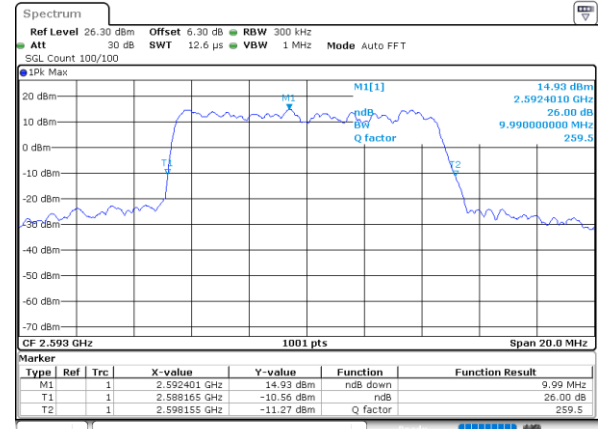
LTE Band 41

Middle Channel / 10MHz / QPSK



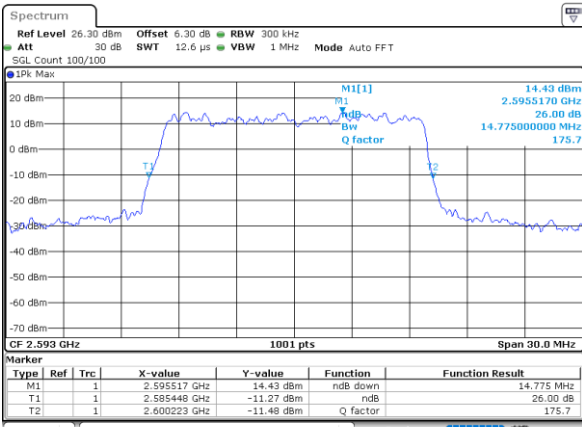
Date: 10\_MAR\_2024 15:35:14

Middle Channel / 10MHz / 16QAM



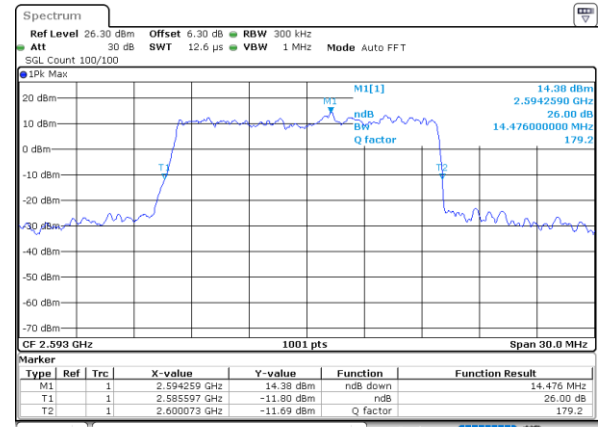
Date: 10\_MAR\_2024 15:36:03

Middle Channel / 15MHz / QPSK



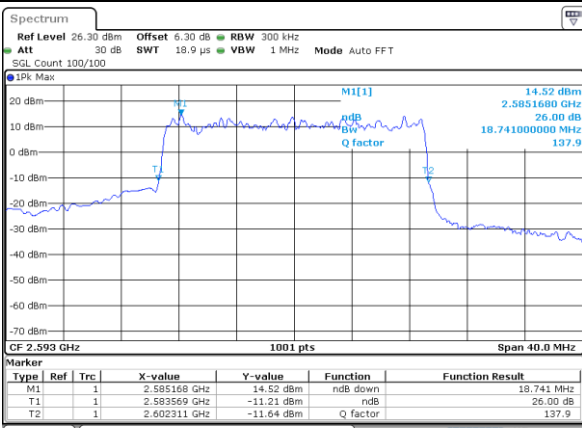
Date: 10\_MAR\_2024 16:20:50

Middle Channel / 15MHz / 16QAM



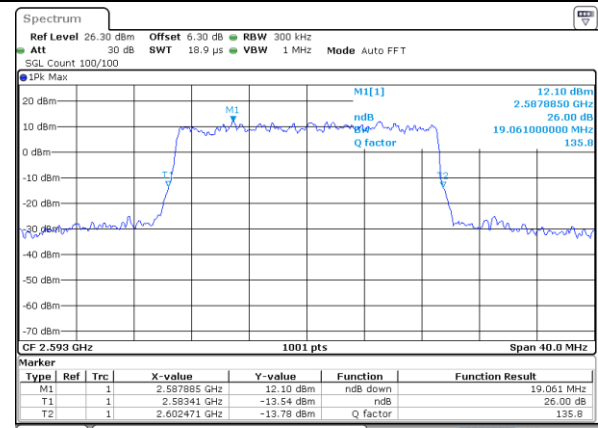
Date: 10\_MAR\_2024 16:21:08

Middle Channel / 20MHz / QPSK



Date: 10\_MAR\_2024 16:25:05

Middle Channel / 20MHz / 16QAM

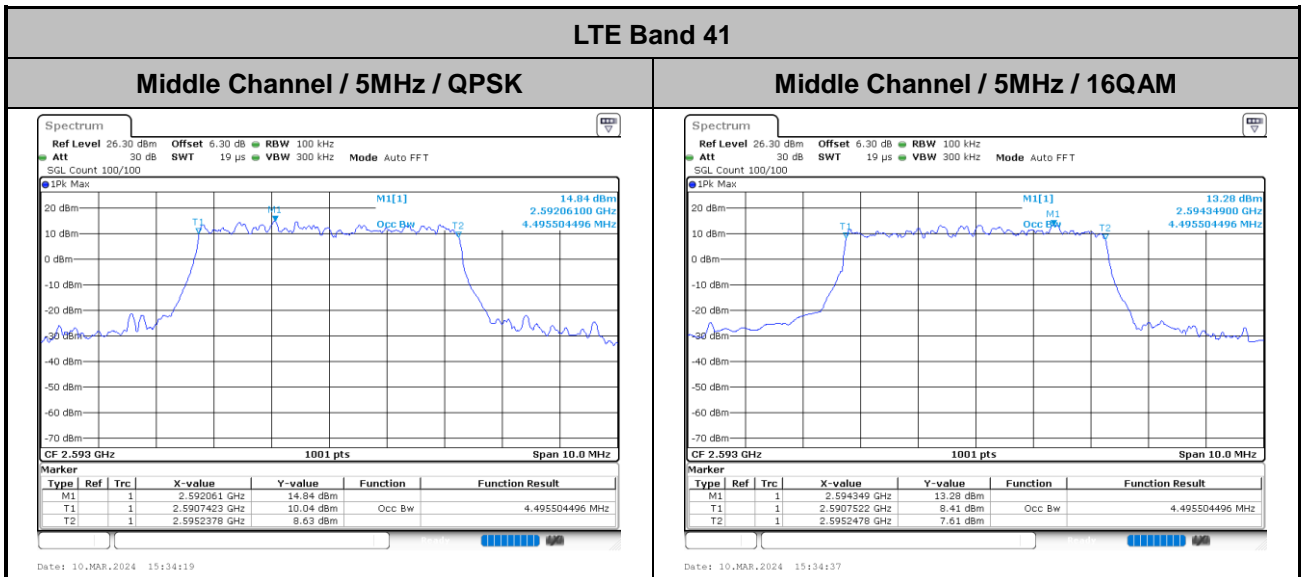


Date: 10\_MAR\_2024 16:25:13



## Occupied Bandwidth

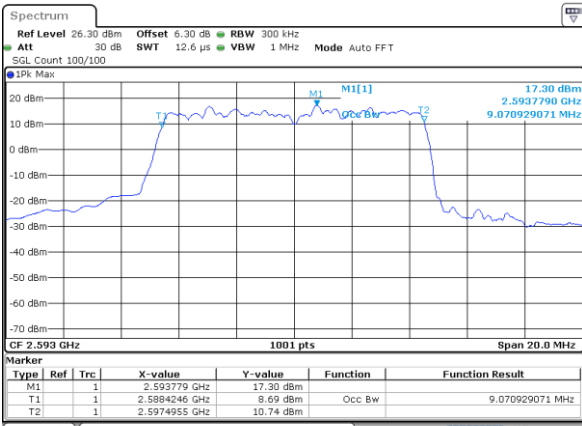
Mode	LTE Band 41 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.50	4.50
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.07	9.09
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.46	13.52
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.94	17.94





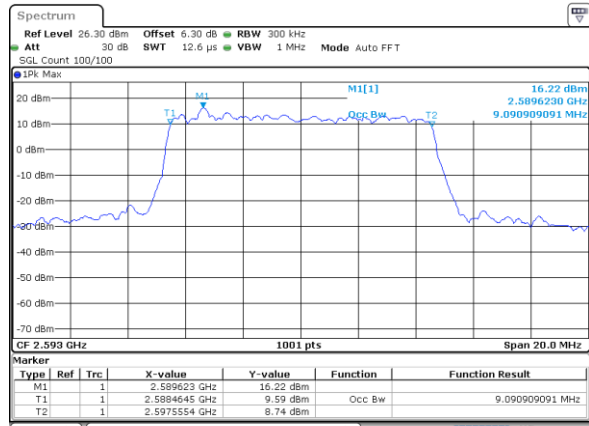
LTE Band 41

Middle Channel / 10MHz / QPSK



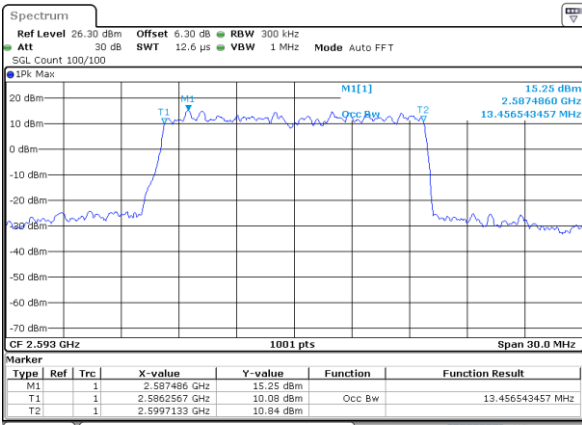
Date: 10\_MAR\_2024 15:35:44

Middle Channel / 10MHz / 16QAM



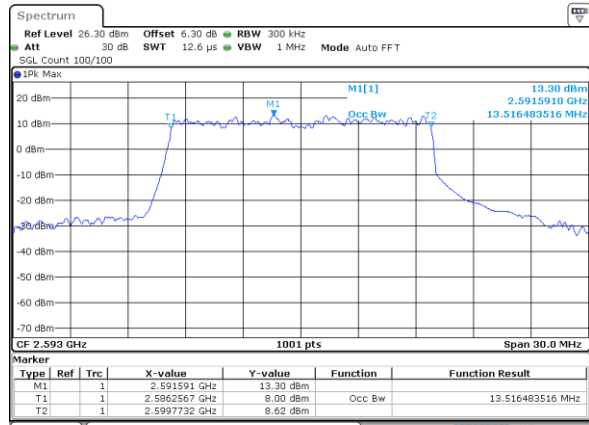
Date: 10\_MAR\_2024 15:35:54

Middle Channel / 15MHz / QPSK



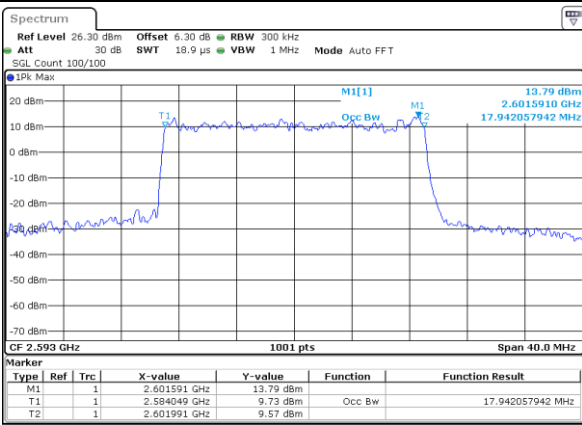
Date: 10\_MAR\_2024 16:20:58

Middle Channel / 15MHz / 16QAM



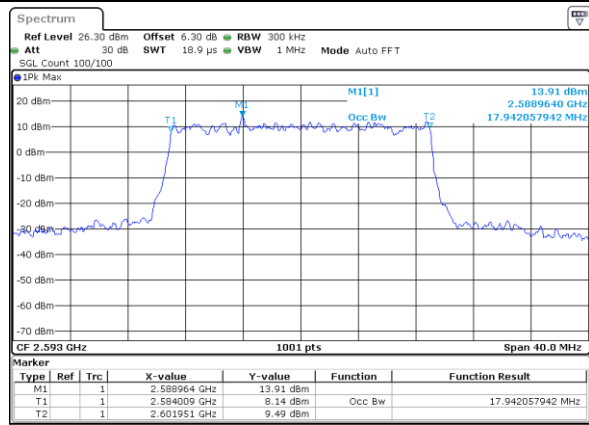
Date: 10\_MAR\_2024 16:21:14

Middle Channel / 20MHz / QPSK



Date: 10\_MAR\_2024 16:25:13

Middle Channel / 20MHz / 16QAM



Date: 10\_MAR\_2024 16:25:45

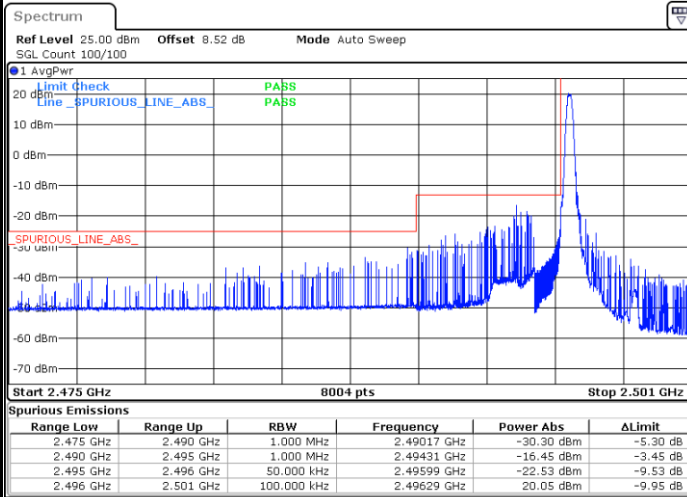




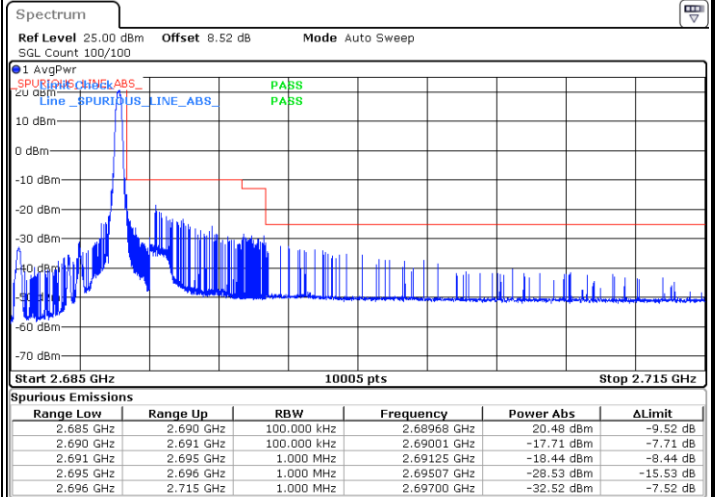
# Conducted Band Edge

## LTE Band 41 / 5MHz / QPSK

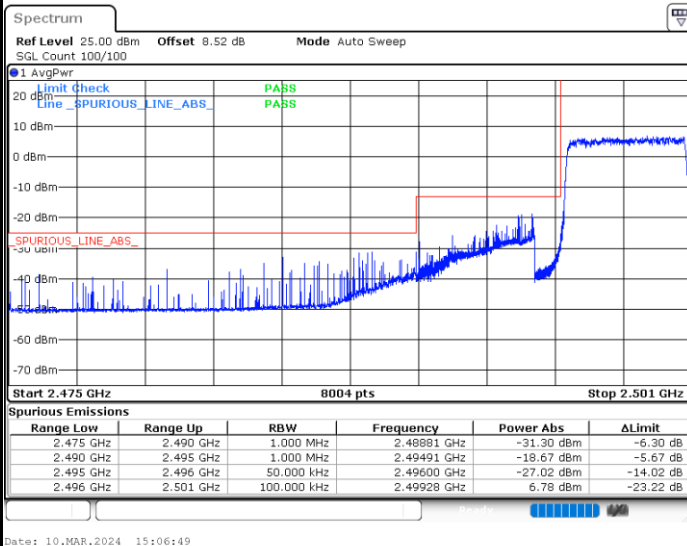
### Lowest Band Edge / 1 RB



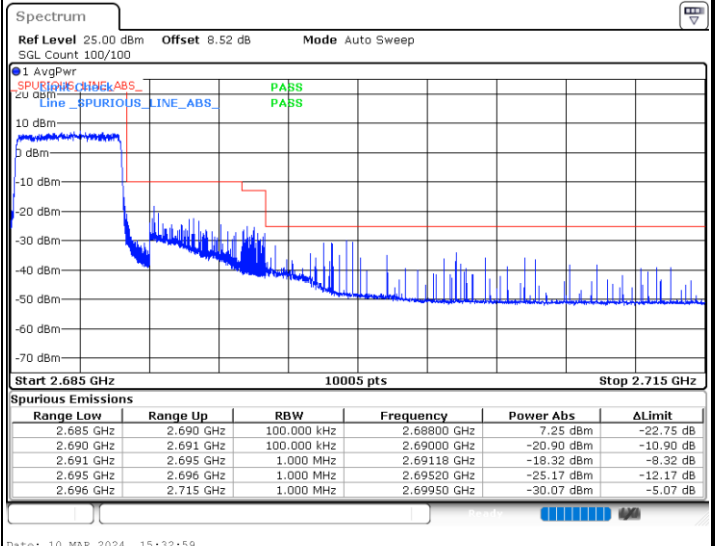
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



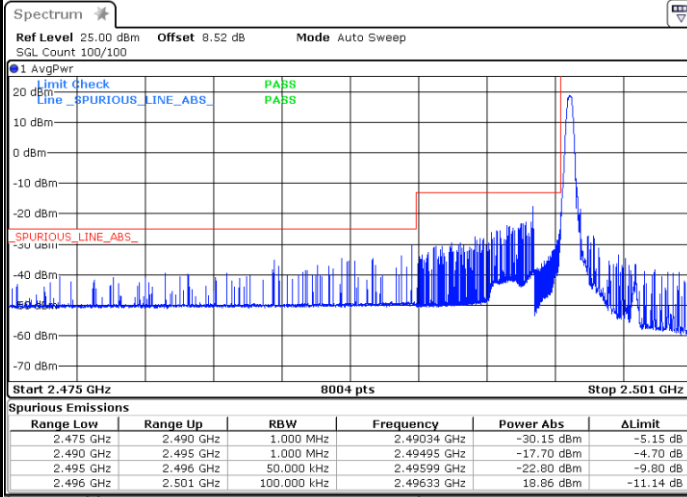
### Highest Band Edge / Full RB





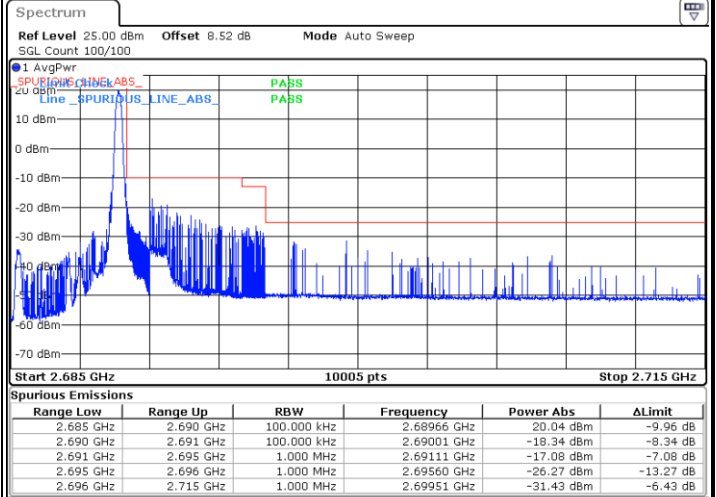
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



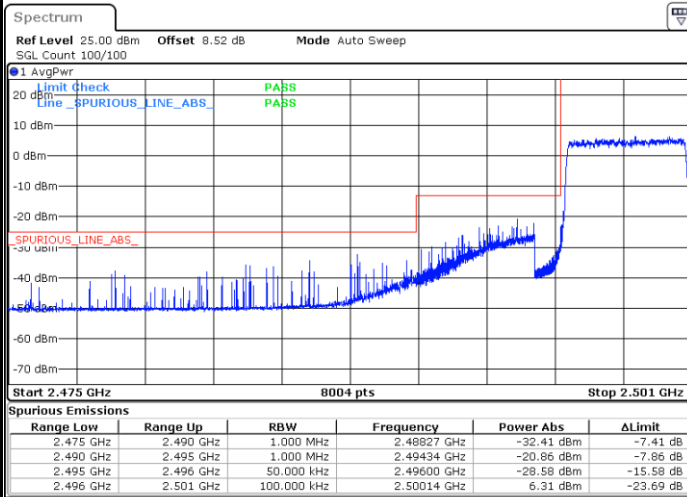
Date: 10.MAR.2024 15:03:26

Highest Band Edge / 1 RB



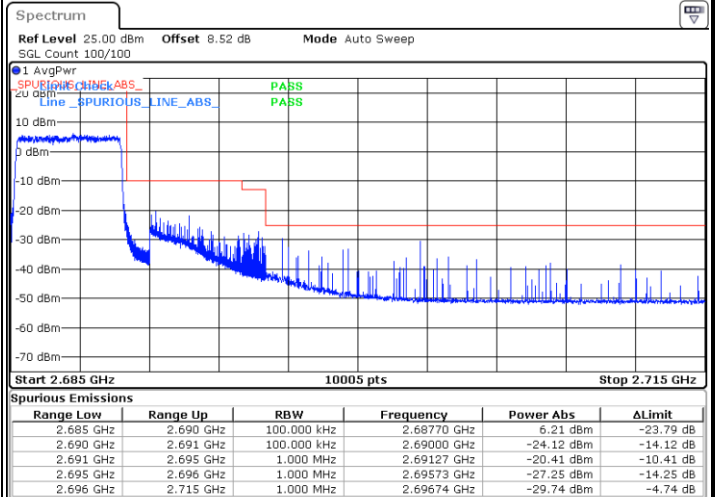
Date: 10.MAR.2024 15:25:42

Lowest Band Edge / Full RB



Date: 10.MAR.2024 15:06:26

Highest Band Edge / Full RB



Date: 10.MAR.2024 15:32:41