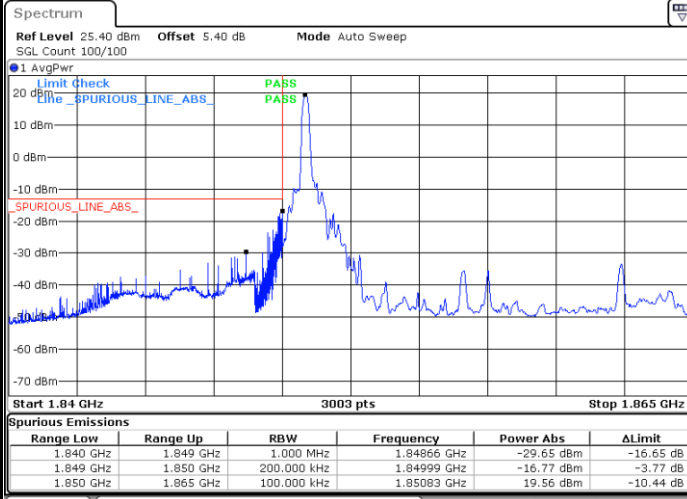




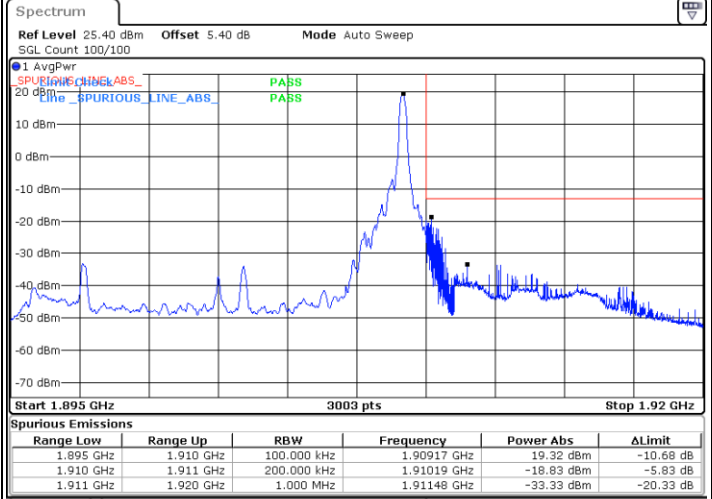
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



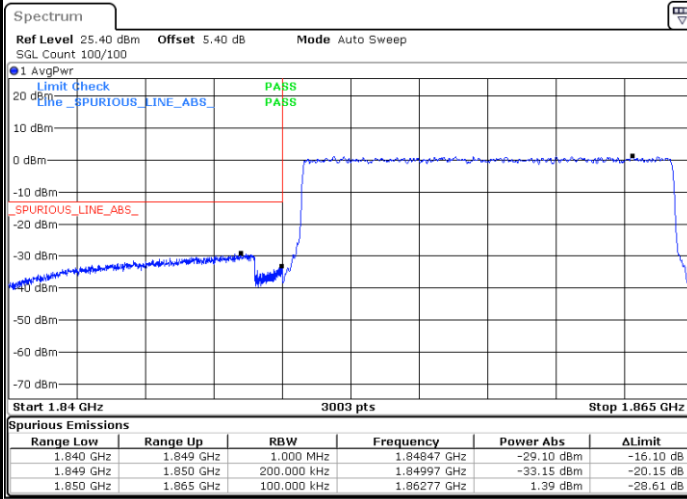
Date: 11.MAY.2024 20:01:26

Highest Band Edge / 1 RB



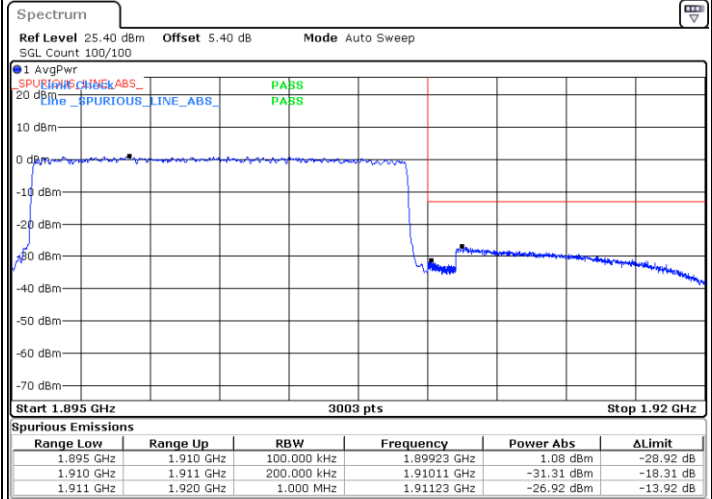
Date: 11.MAY.2024 20:12:25

Lowest Band Edge / Full RB



Date: 11.MAY.2024 20:06:19

Highest Band Edge / Full RB

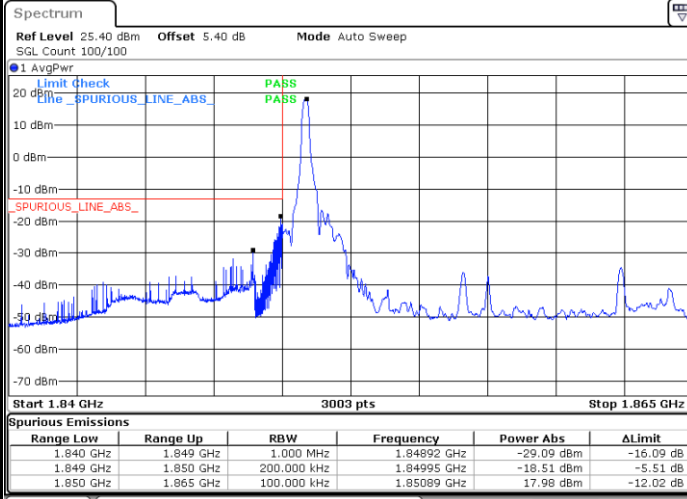


Date: 11.MAY.2024 20:16:32



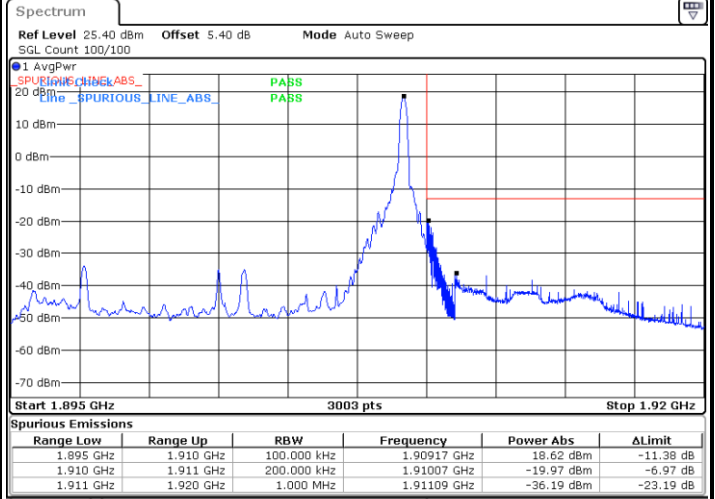
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



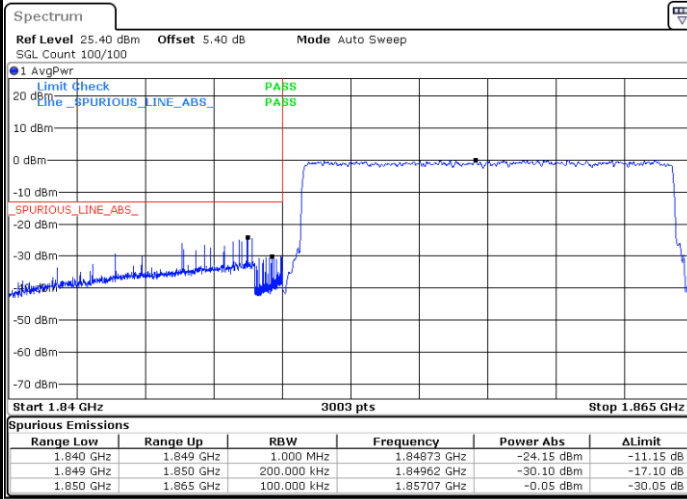
Date: 11.MAY.2024 20:02:24

Highest Band Edge / 1 RB



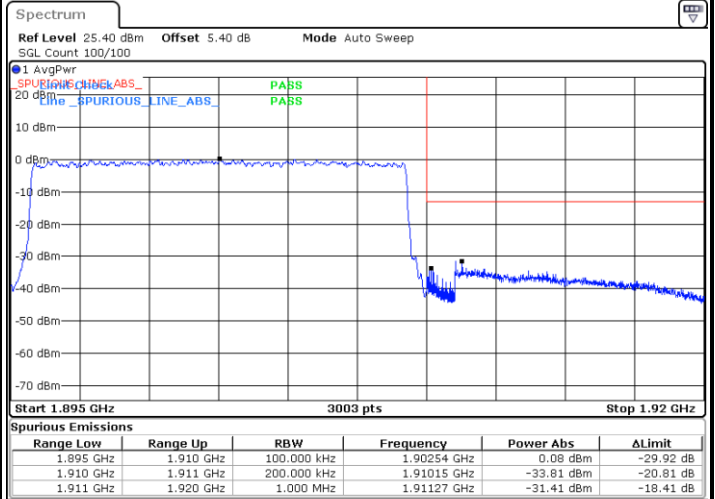
Date: 11.MAY.2024 20:13:14

Lowest Band Edge / Full RB



Date: 11.MAY.2024 20:05:20

Highest Band Edge / Full RB

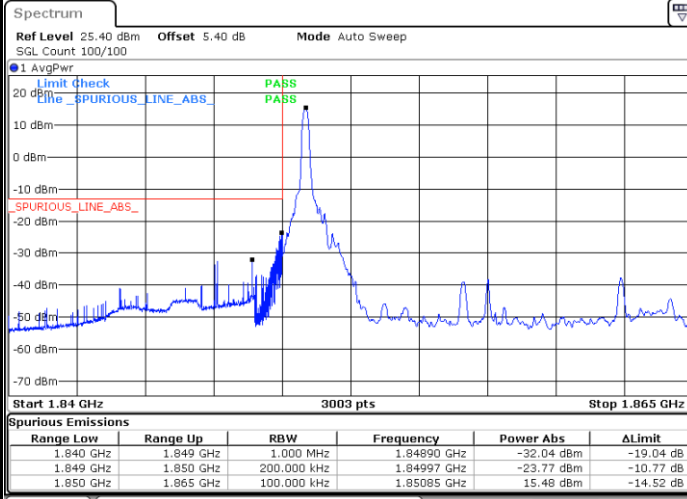


Date: 11.MAY.2024 20:15:43



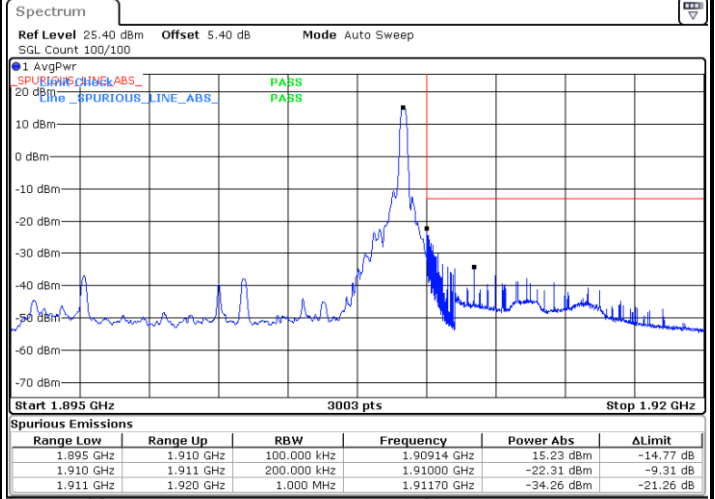
LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



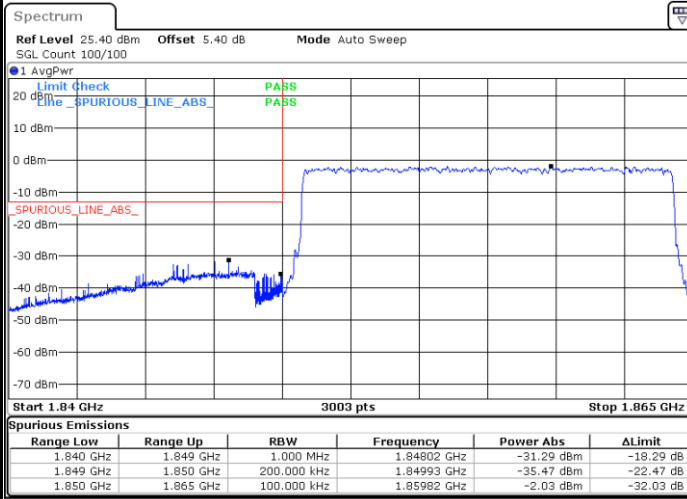
Date: 11.MAY.2024 20:03:23

Highest Band Edge / 1 RB



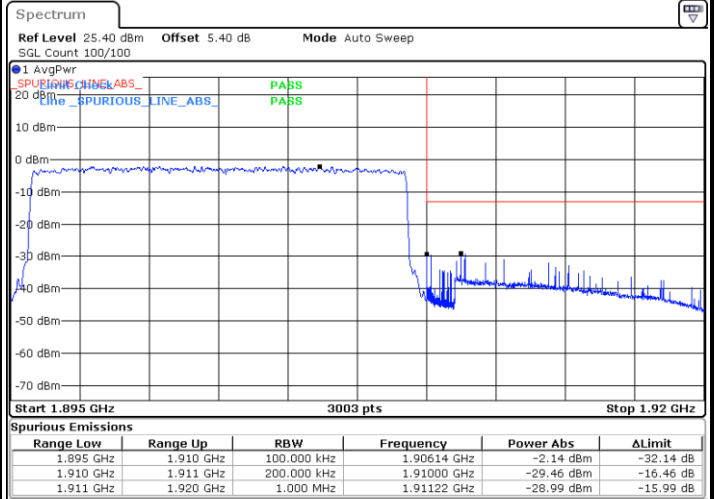
Date: 11.MAY.2024 20:14:03

Lowest Band Edge / Full RB



Date: 11.MAY.2024 20:04:22

Highest Band Edge / Full RB

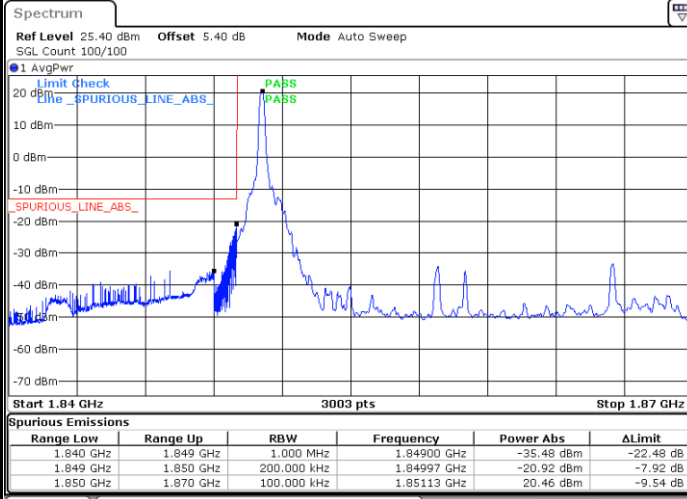


Date: 11.MAY.2024 20:14:55



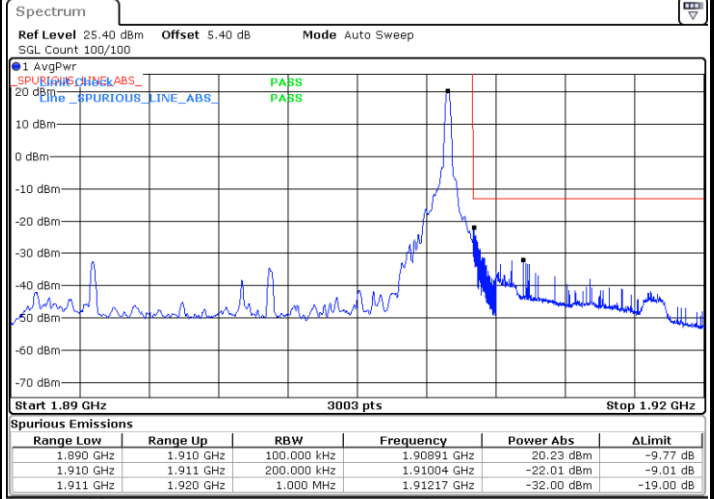
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



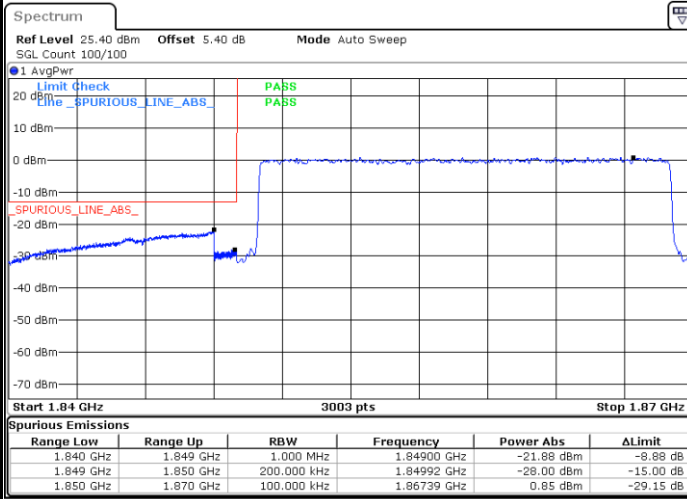
Date: 11.MAY.2024 20:20:24

Highest Band Edge / 1 RB



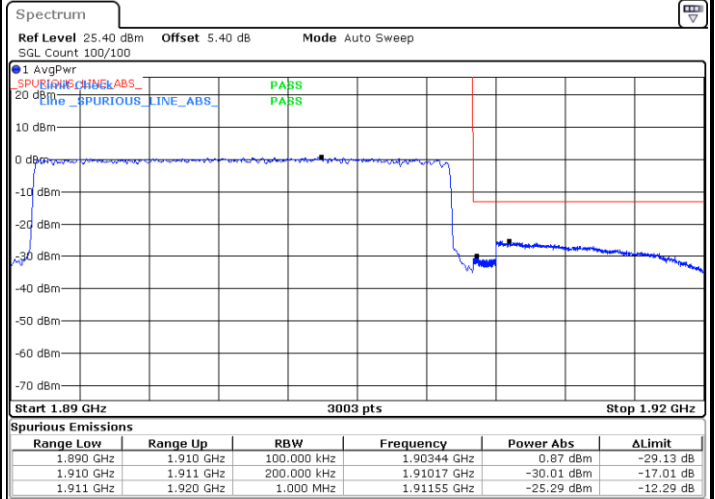
Date: 11.MAY.2024 20:30:26

Lowest Band Edge / Full RB



Date: 11.MAY.2024 20:26:07

Highest Band Edge / Full RB



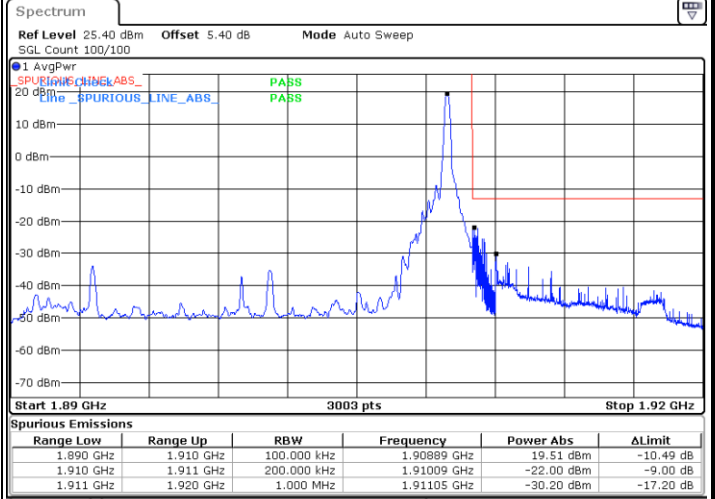
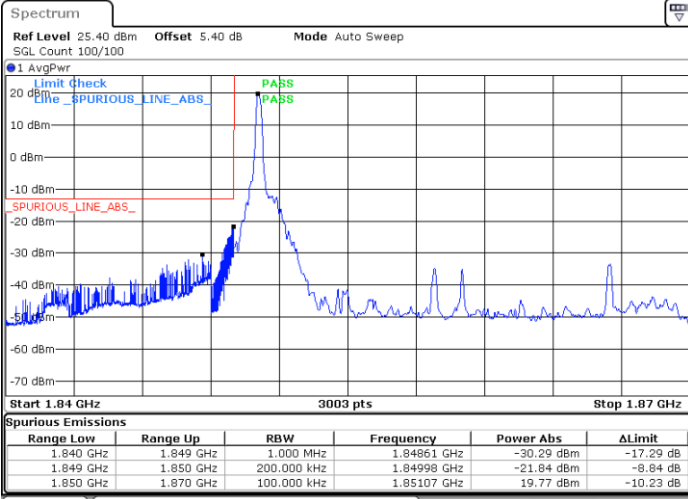
Date: 11.MAY.2024 20:36:14



LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

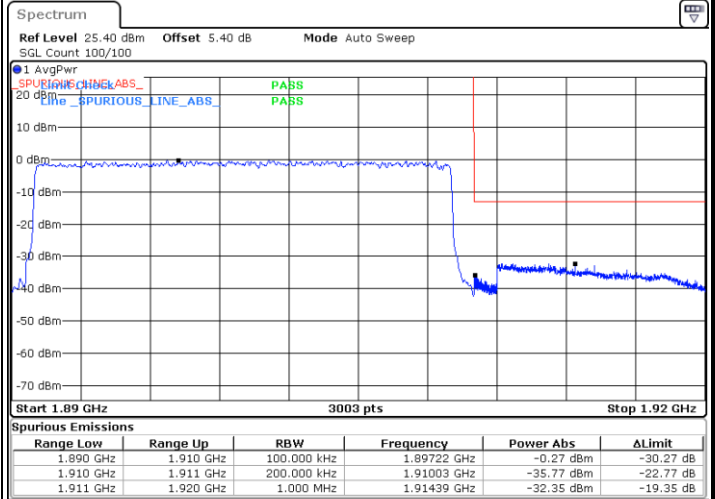
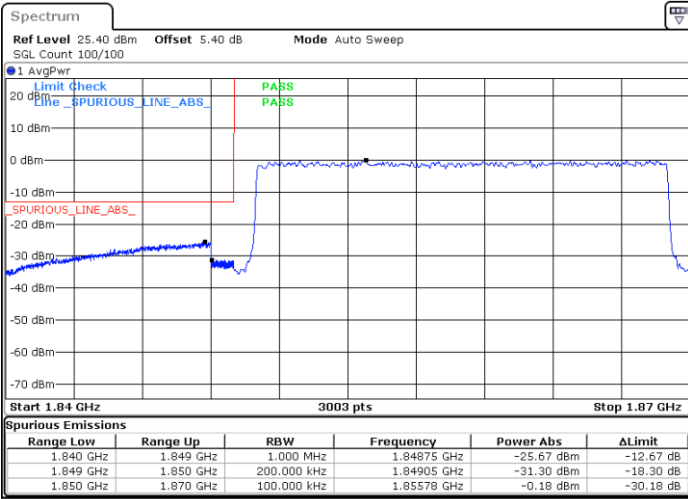


Date: 11.MAY.2024 20:21:16

Date: 11.MAY.2024 20:31:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



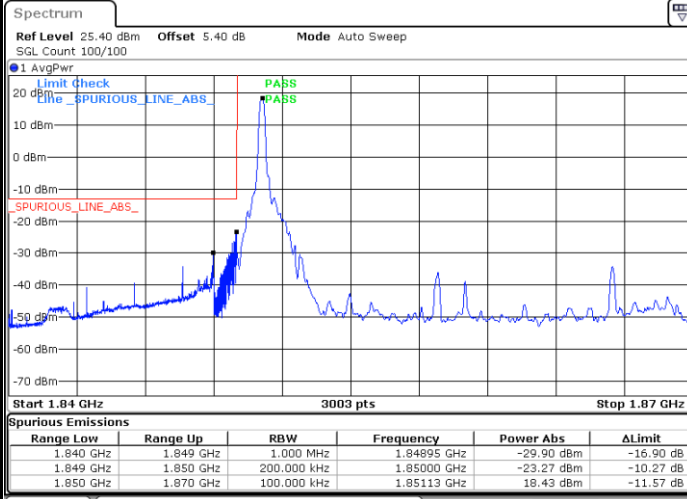
Date: 11.MAY.2024 20:25:19

Date: 11.MAY.2024 20:35:25



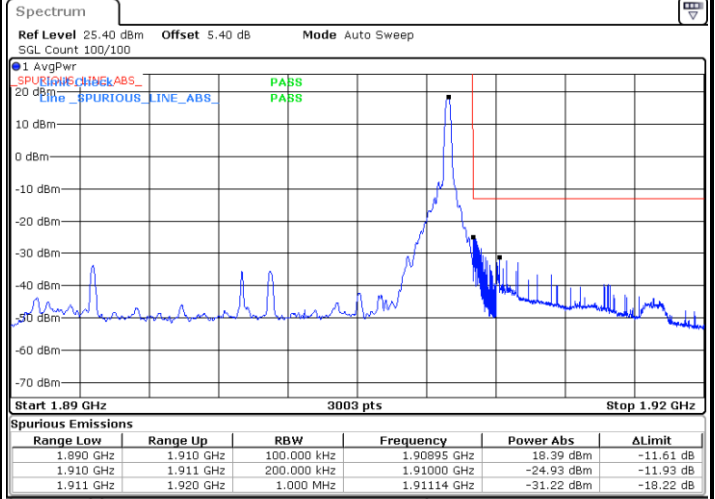
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



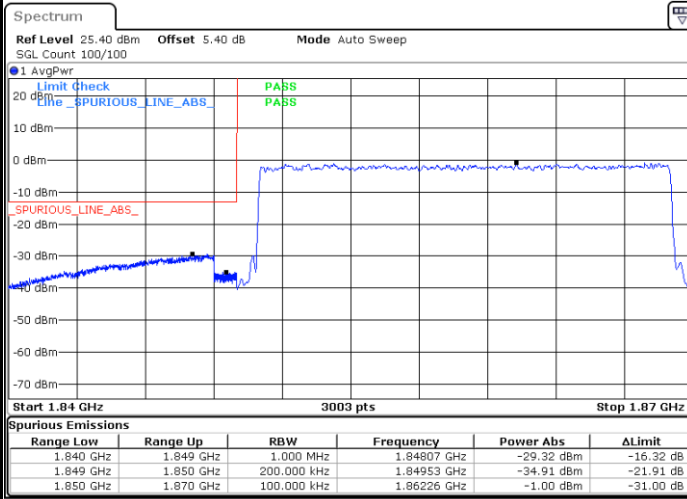
Date: 11.MAY.2024 20:22:04

Highest Band Edge / 1 RB



Date: 11.MAY.2024 20:32:07

Lowest Band Edge / Full RB



Date: 11.MAY.2024 20:24:30

Highest Band Edge / Full RB

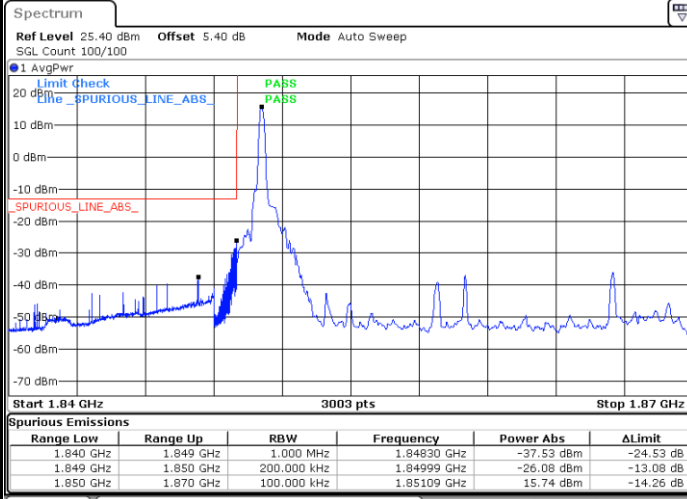


Date: 11.MAY.2024 20:34:36



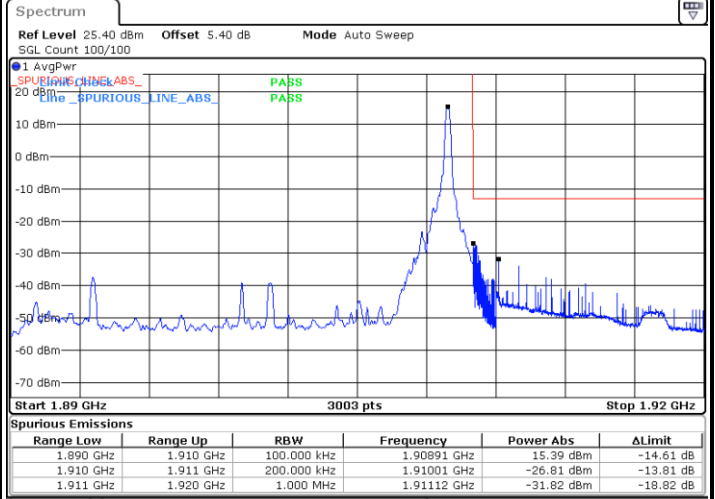
LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



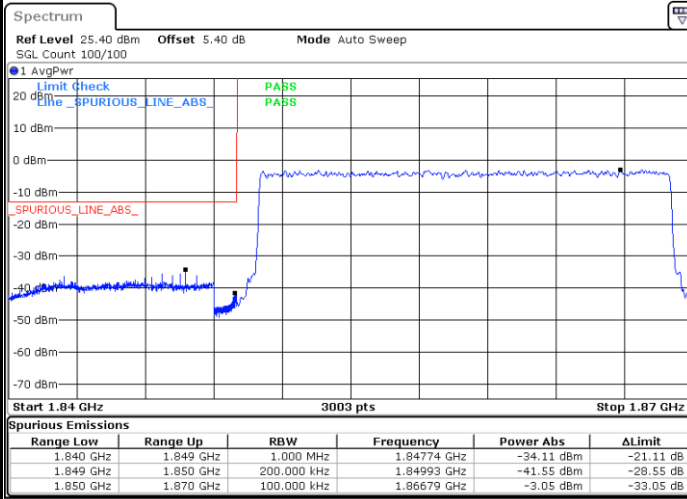
Date: 11.MAY.2024 20:22:53

Highest Band Edge / 1 RB



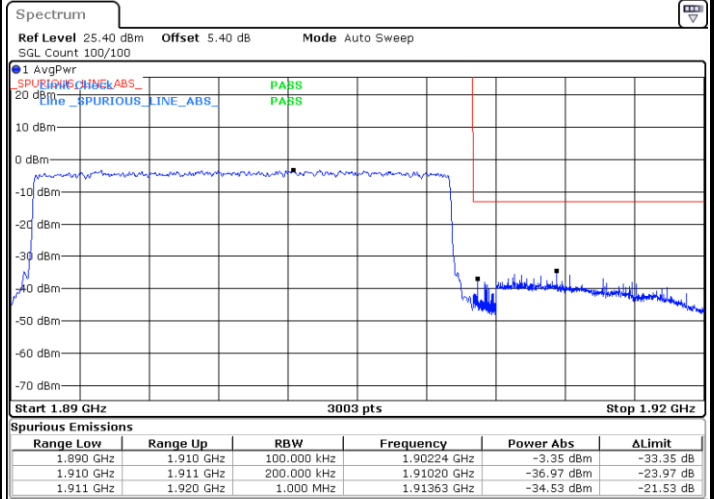
Date: 11.MAY.2024 20:32:56

Lowest Band Edge / Full RB



Date: 11.MAY.2024 20:23:41

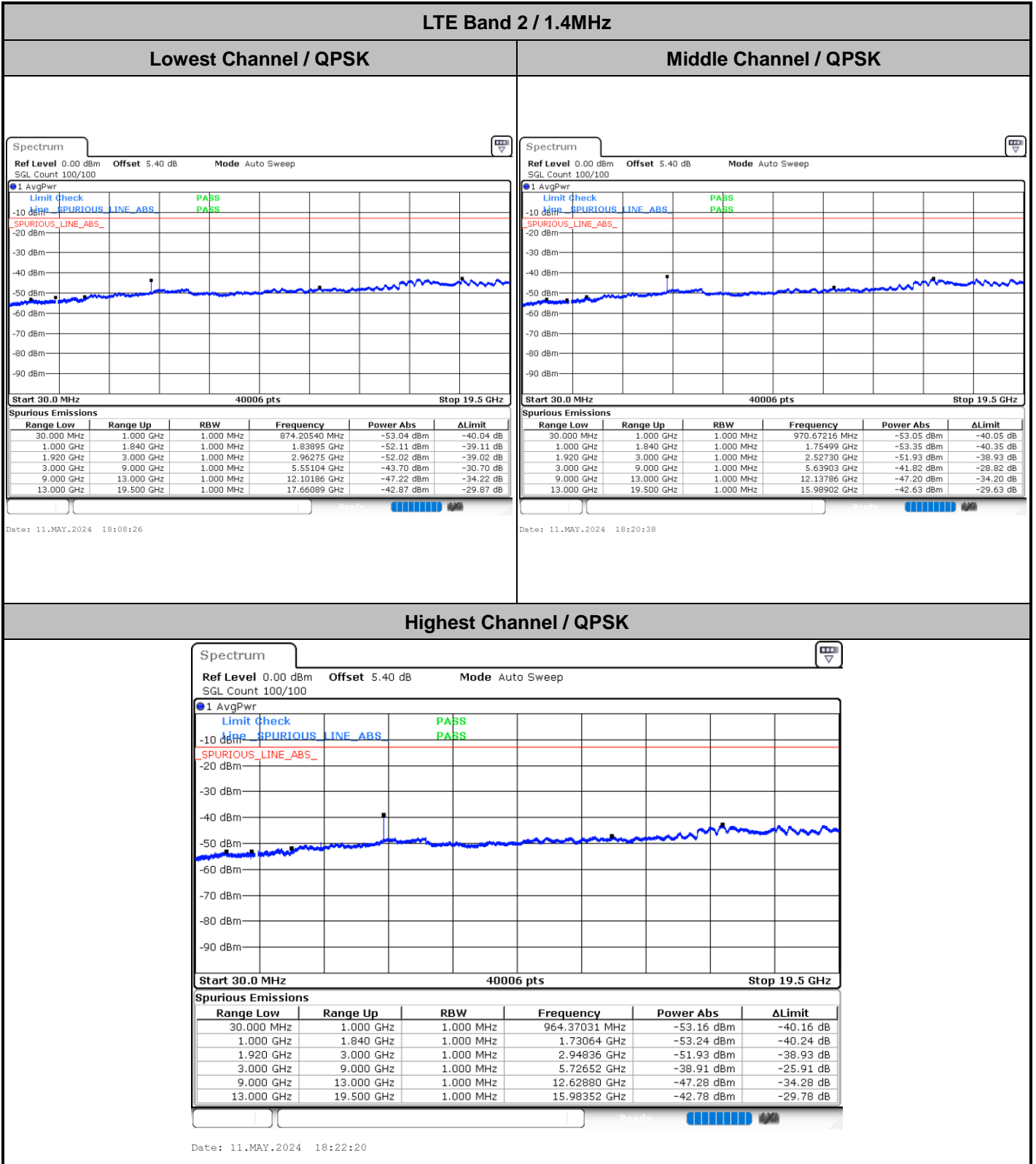
Highest Band Edge / Full RB



Date: 11.MAY.2024 20:33:44



# Conducted Spurious Emission



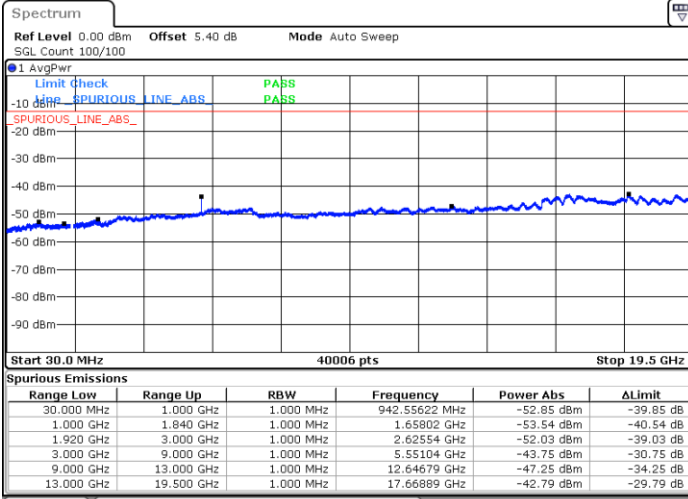




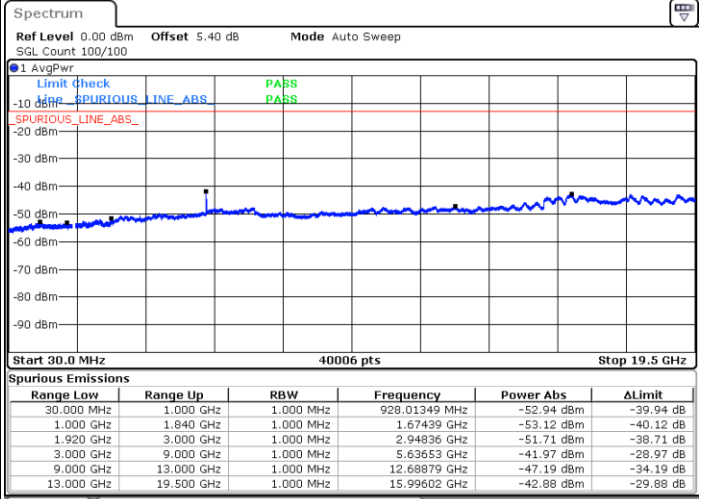
LTE Band 2 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

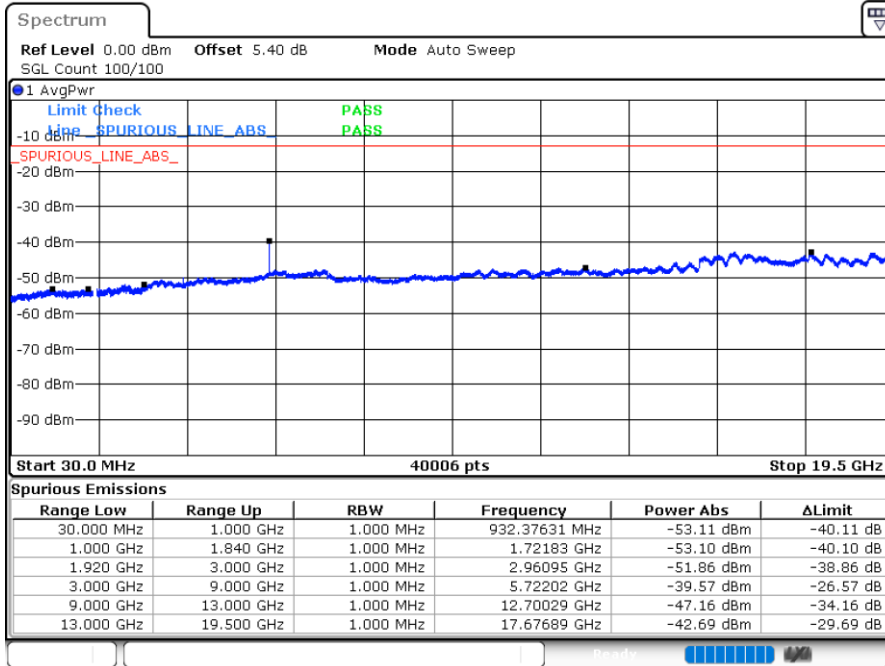


Date: 11.MAY.2024 18:33:03



Date: 11.MAY.2024 18:42:42

Highest Channel / QPSK



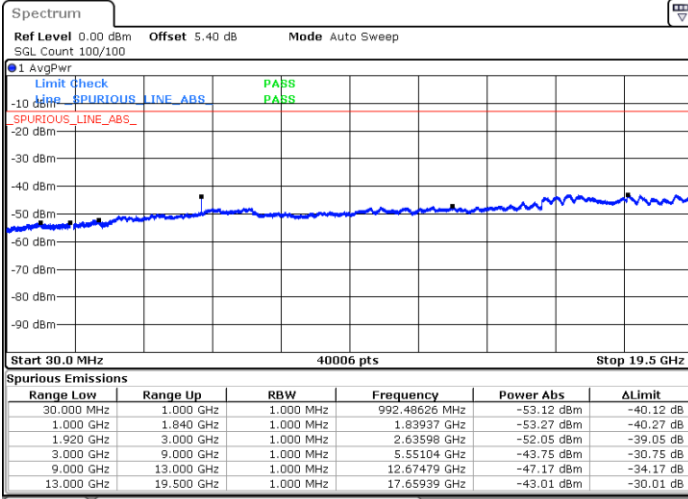
Date: 11.MAY.2024 18:44:24



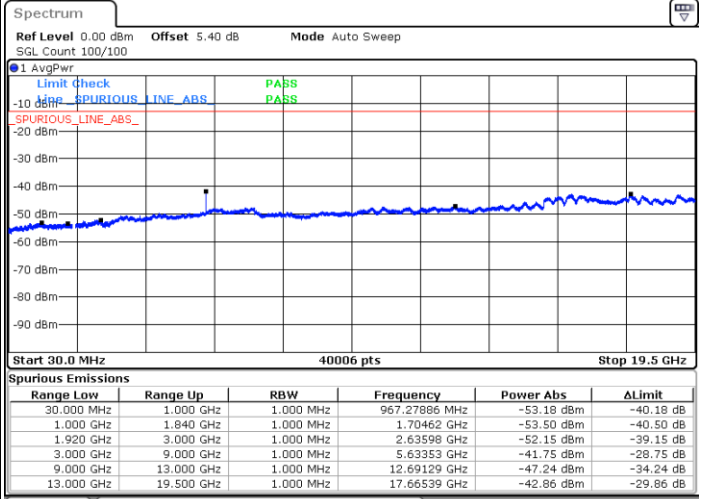
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

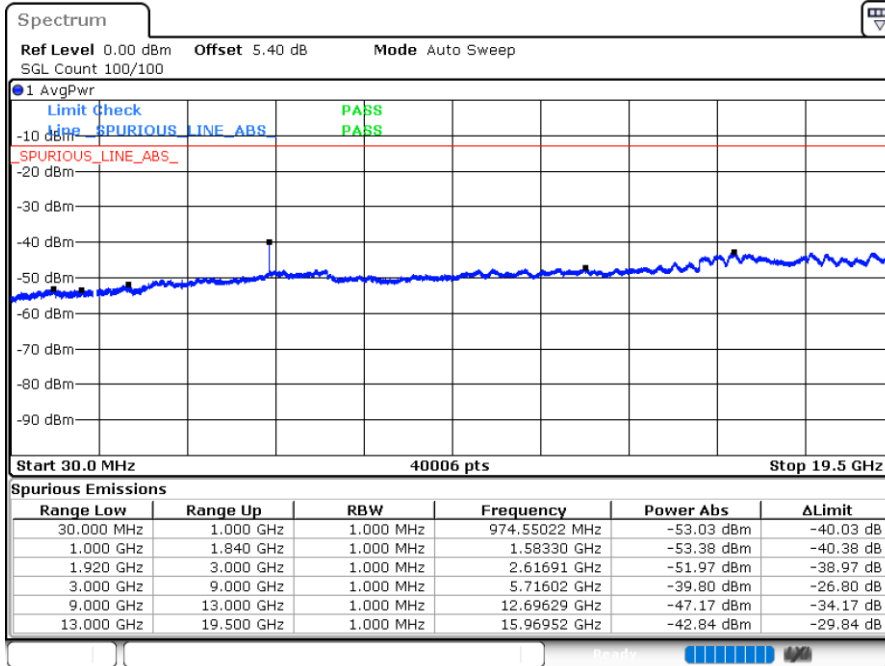


Date: 11.MAY.2024 18:55:12



Date: 11.MAY.2024 19:04:48

Highest Channel / QPSK



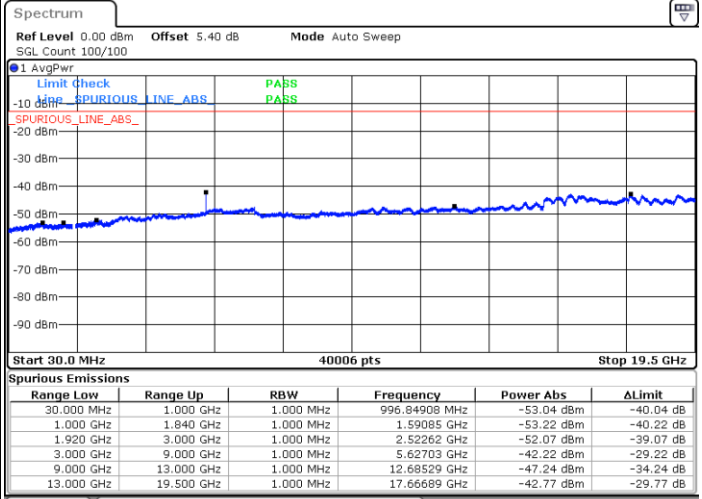
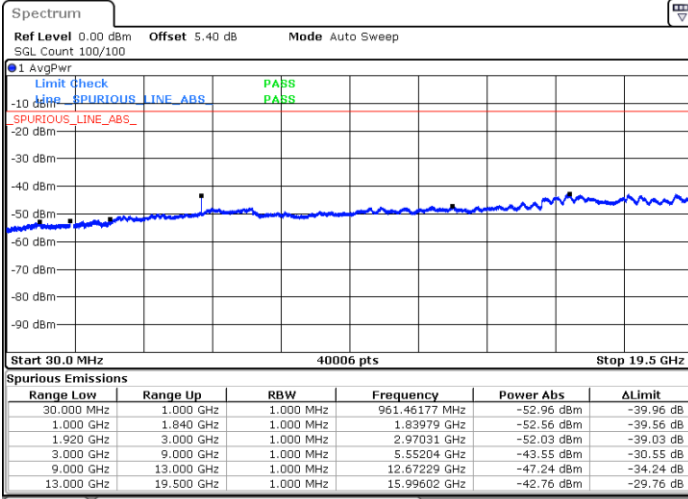
Date: 11.MAY.2024 19:06:30



LTE Band 2 / 10MHz

Lowest Channel / QPSK

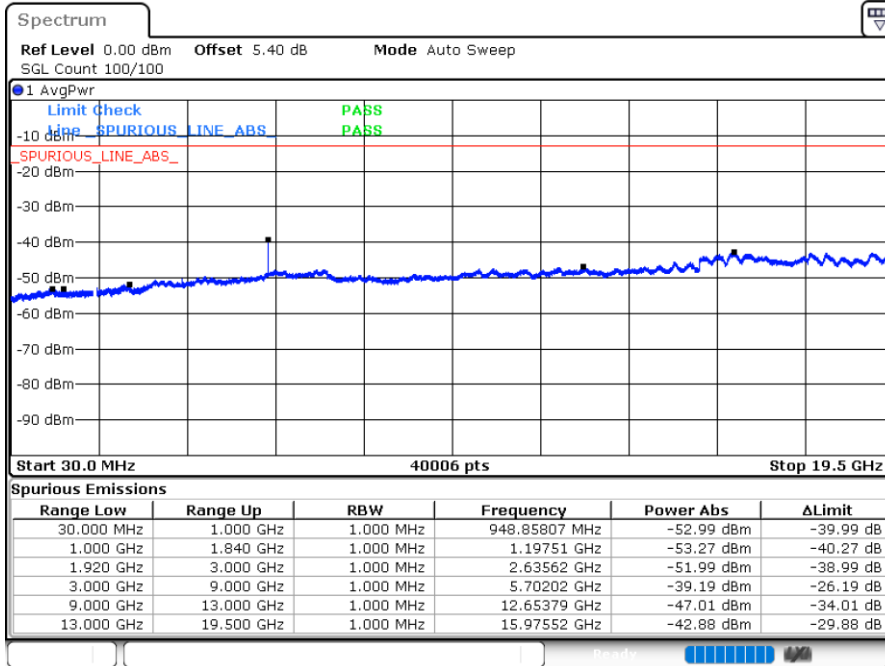
Middle Channel / QPSK



Date: 11.MAY.2024 19:17:17

Date: 11.MAY.2024 19:47:08

Highest Channel / QPSK



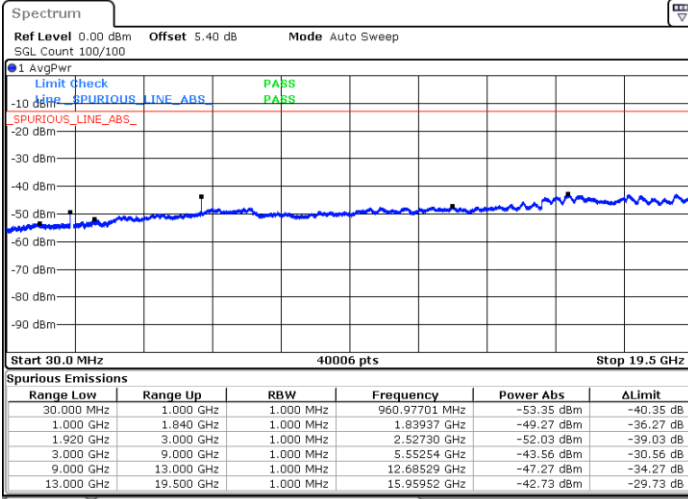
Date: 11.MAY.2024 19:48:50



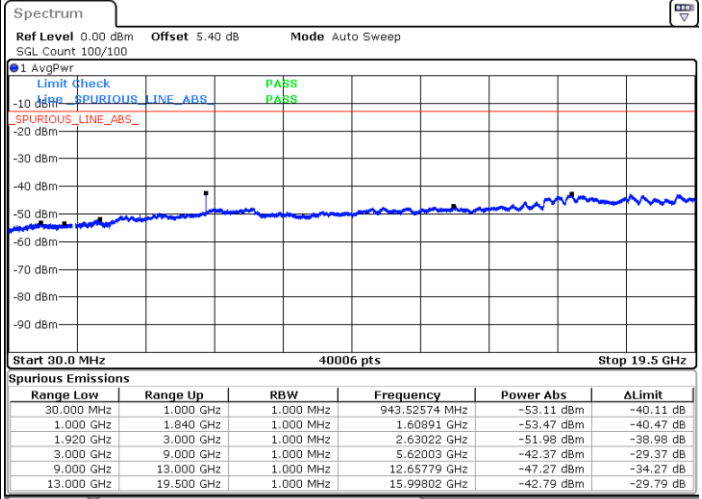
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

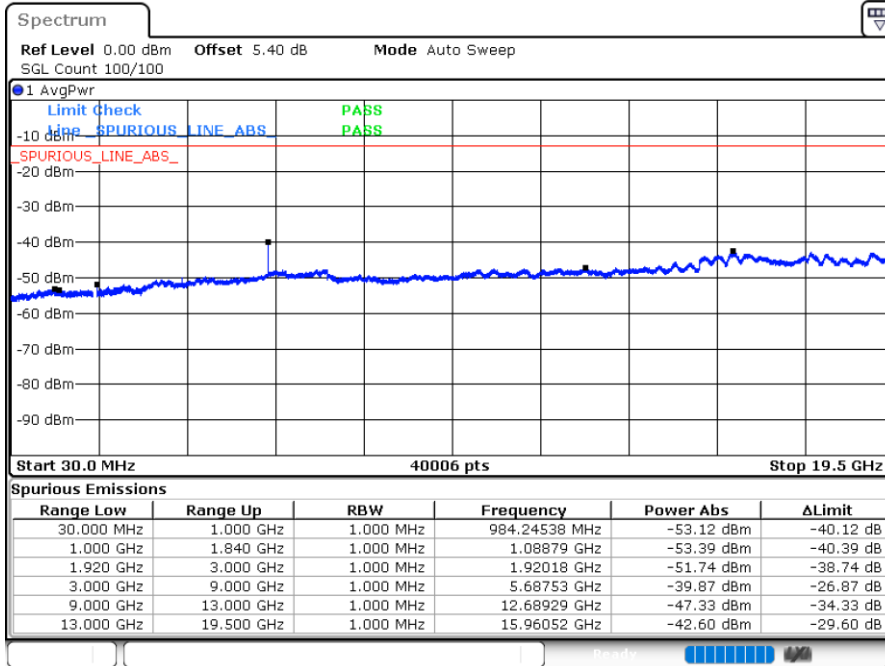


Date: 11.MAY.2024 19:59:40



Date: 11.MAY.2024 20:09:00

Highest Channel / QPSK



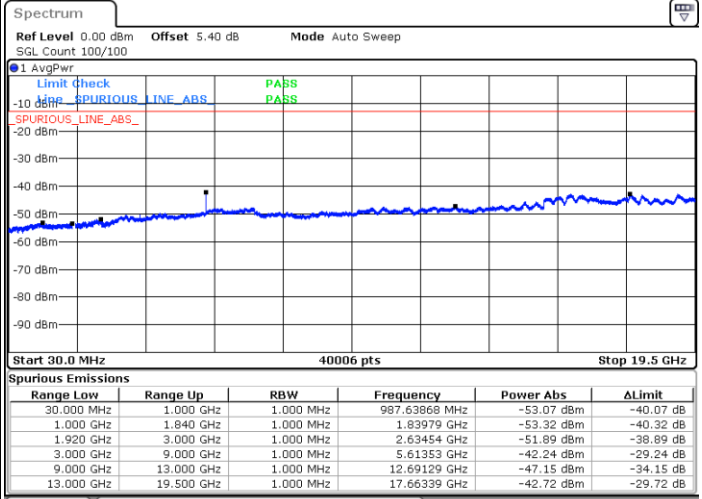
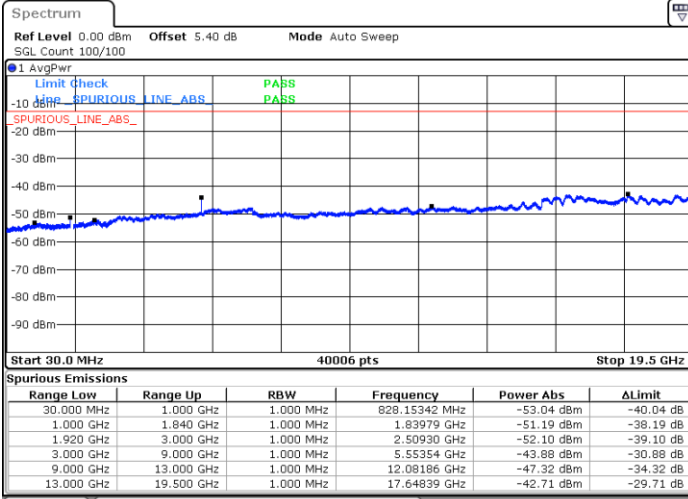
Date: 11.MAY.2024 20:10:42



LTE Band 2 / 20MHz

Lowest Channel / QPSK

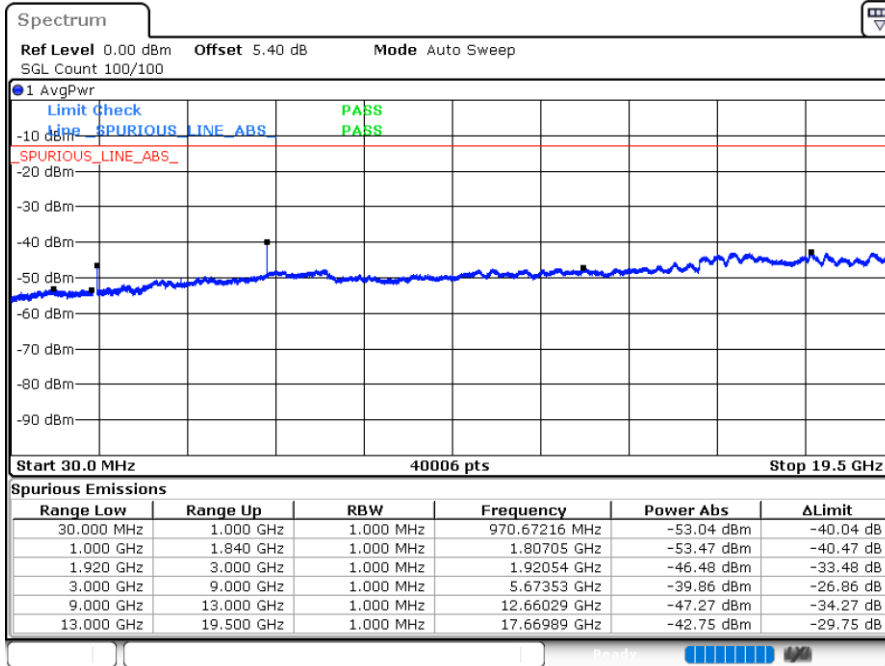
Middle Channel / QPSK



Date: 11.MAY.2024 20:19:51

Date: 11.MAY.2024 20:27:50

Highest Channel / QPSK



Date: 11.MAY.2024 20:29:32



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

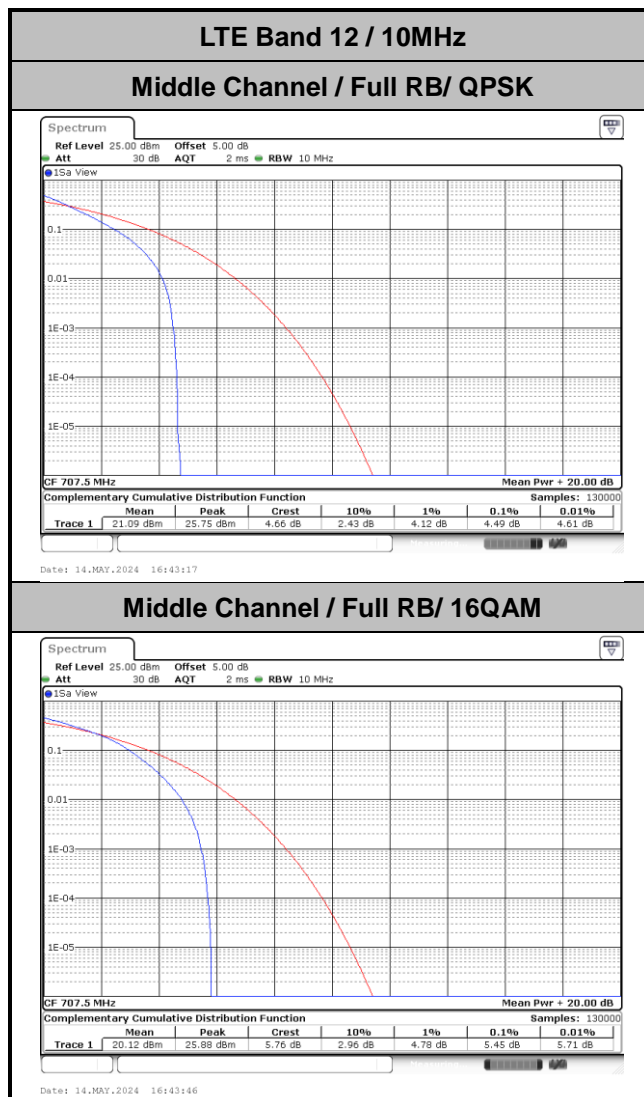
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage = 4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

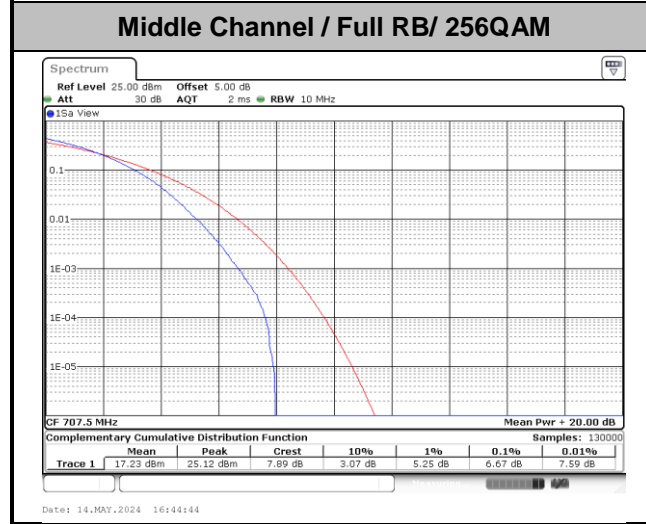
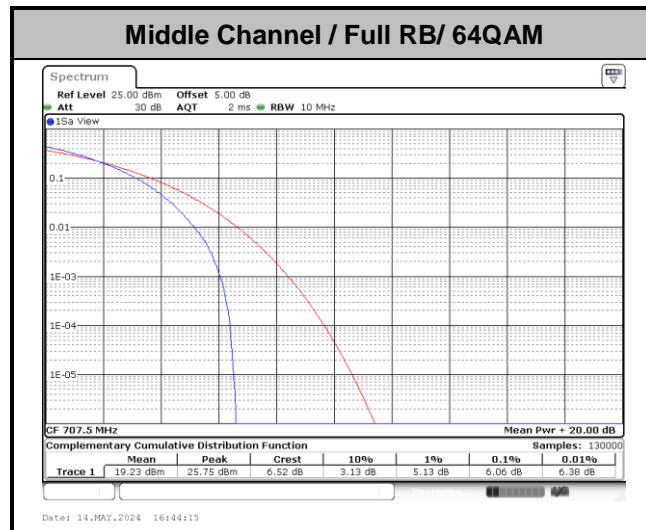


# LTE Band 12

## Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.49	5.45	6.06	6.67	PASS



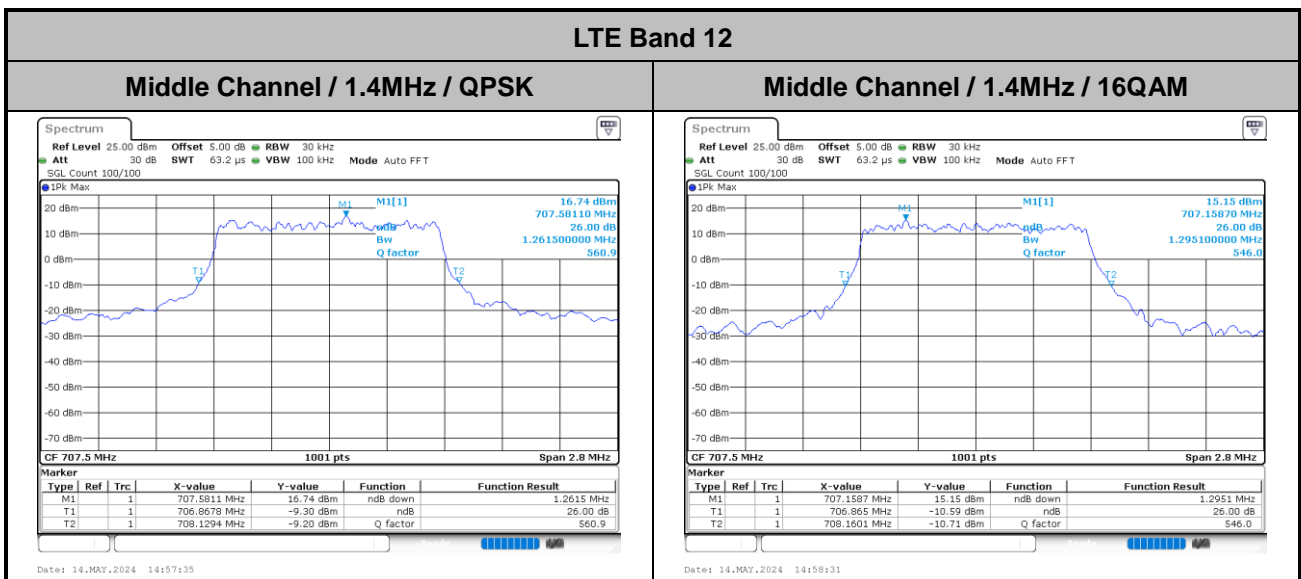






## 26dB Bandwidth

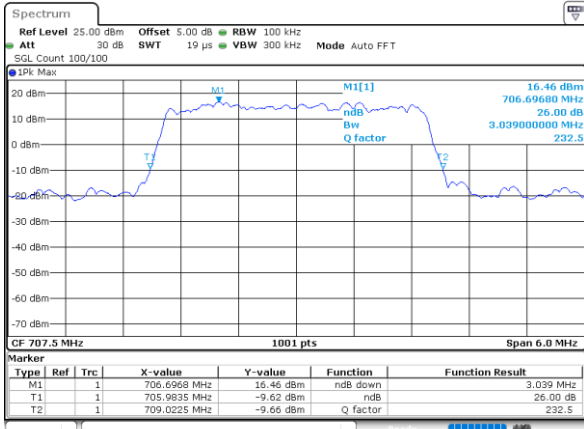
Mode	LTE Band 12 : 26dB BW(MHz)	
<b>BW</b>	<b>1.4MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	1.26	1.30
<b>BW</b>	<b>3MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	3.04	3.00
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	5.01	4.92
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.67	9.79





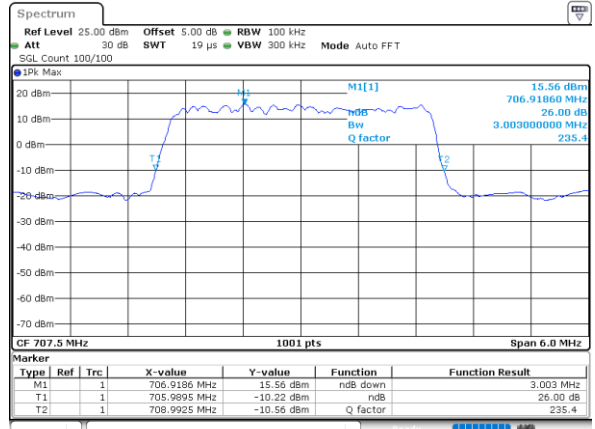
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 14.MAY.2024 15:27:42

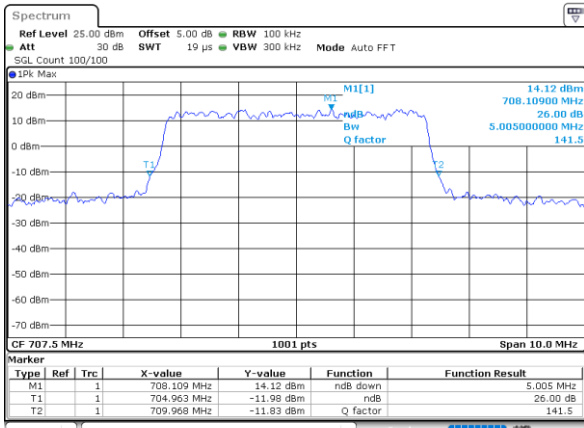
Middle Channel / 3MHz / 16QAM



Date: 14.MAY.2024 15:28:38

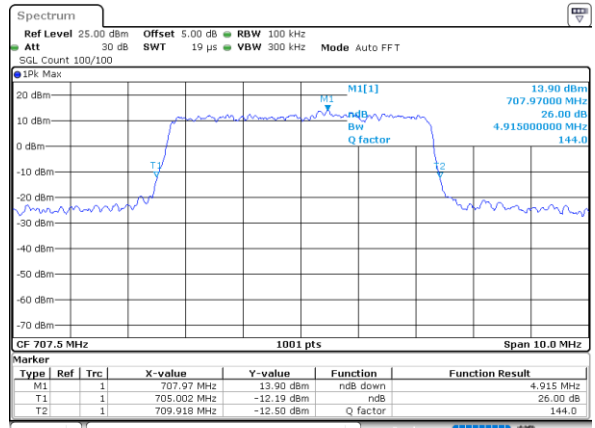
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 14.MAY.2024 15:58:54

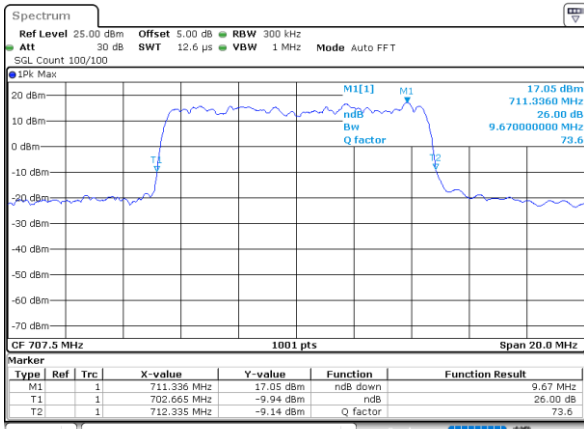
Middle Channel / 5MHz / 16QAM



Date: 14.MAY.2024 15:59:50

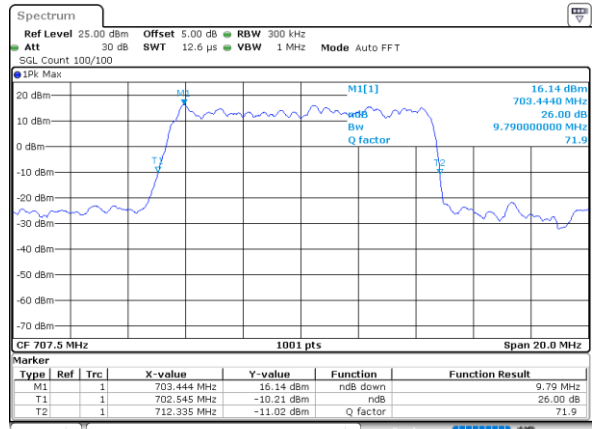
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 14.MAY.2024 16:46:08

Middle Channel / 10MHz / 16QAM

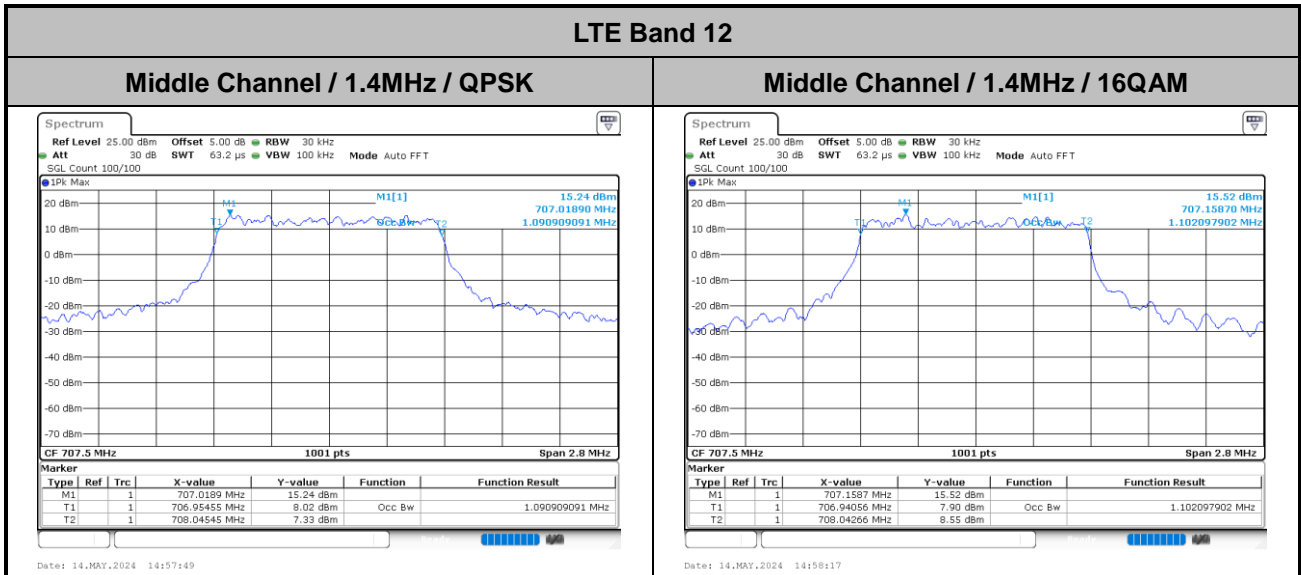


Date: 14.MAY.2024 16:46:35



# Occupied Bandwidth

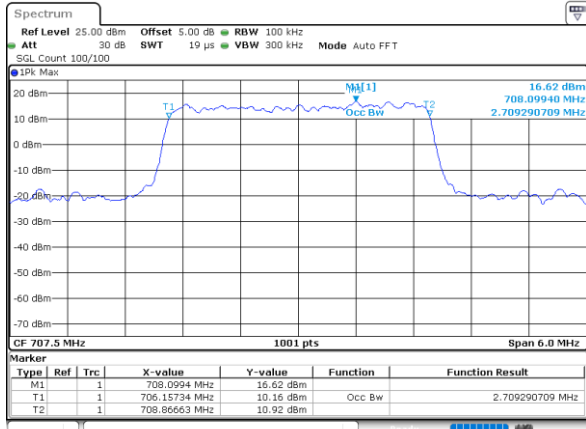
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.71	2.73
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.01





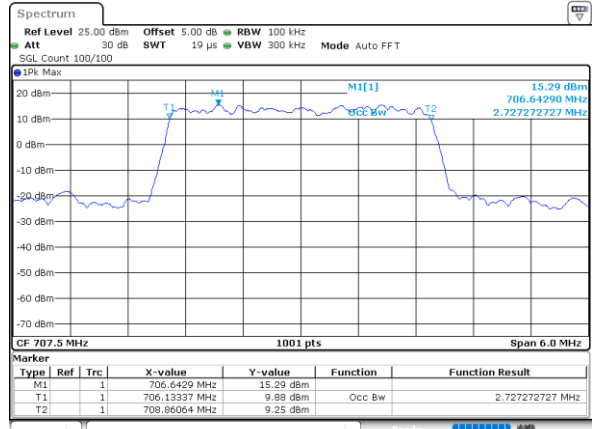
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 14.MAY.2024 15:27:56

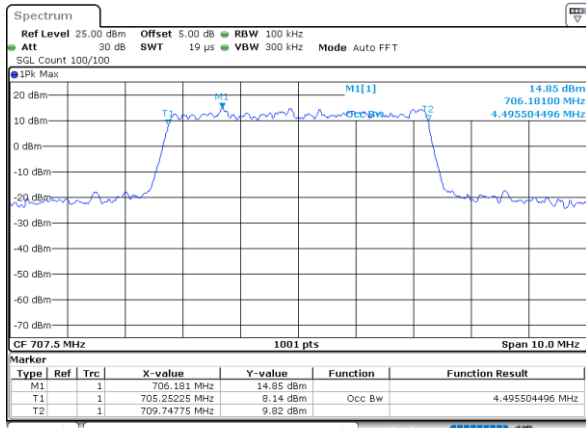
Middle Channel / 3MHz / 16QAM



Date: 14.MAY.2024 15:28:24

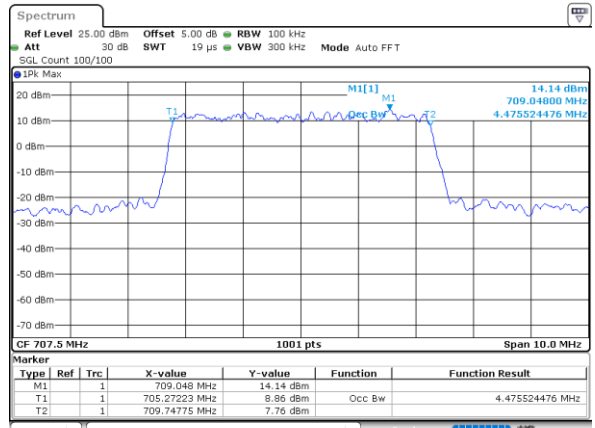
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 14.MAY.2024 15:59:08

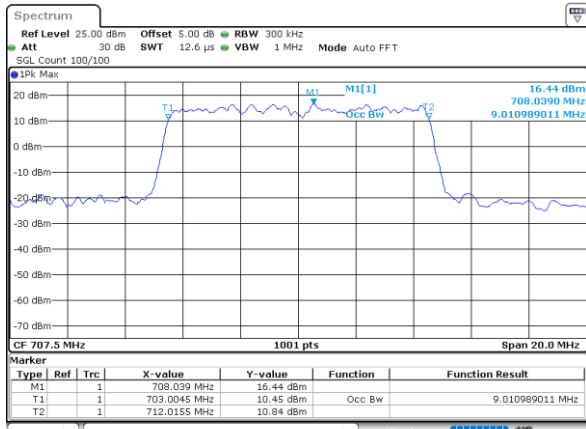
Middle Channel / 5MHz / 16QAM



Date: 14.MAY.2024 15:59:36

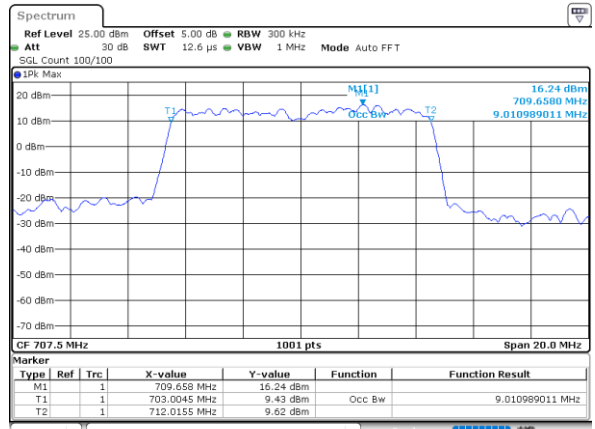
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 14.MAY.2024 16:45:12

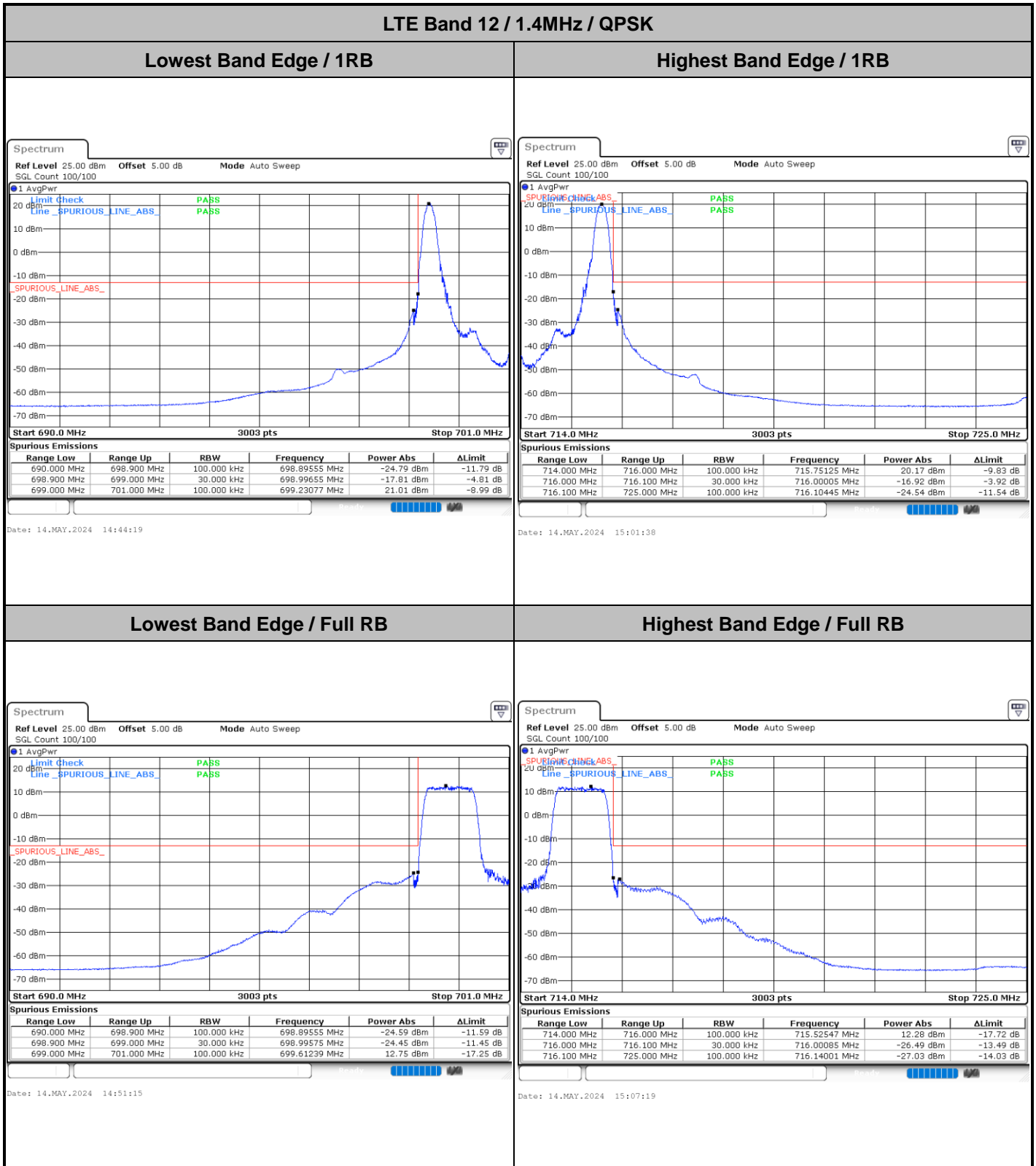
Middle Channel / 10MHz / 16QAM



Date: 14.MAY.2024 16:45:40



# Conducted Band Edge





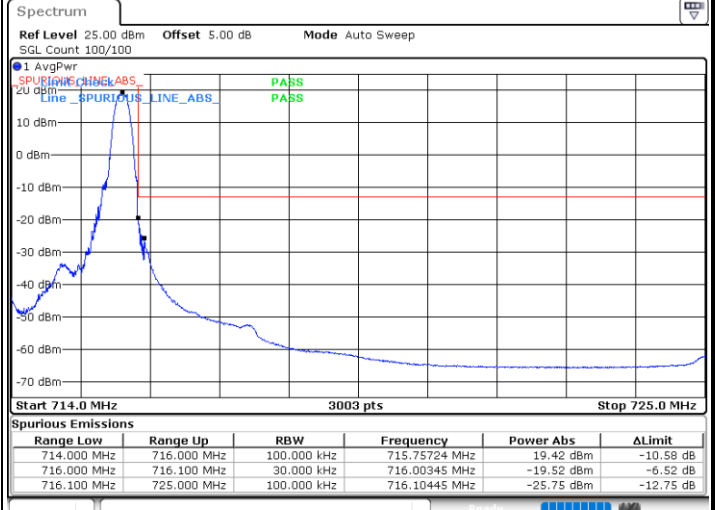
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



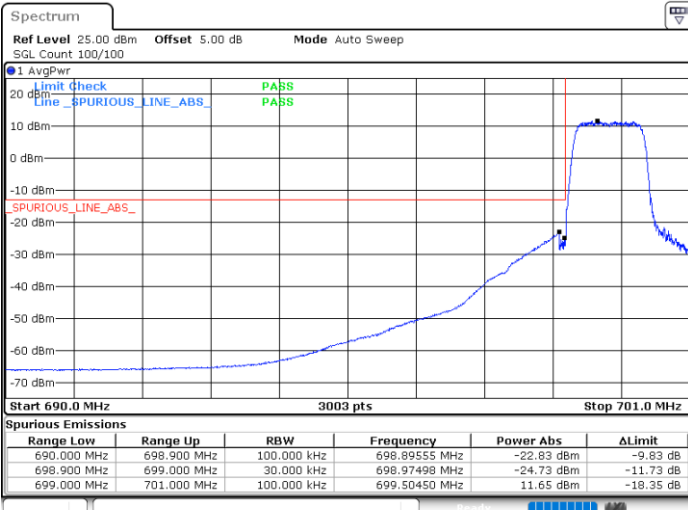
Date: 14.MAY.2024 14:45:42



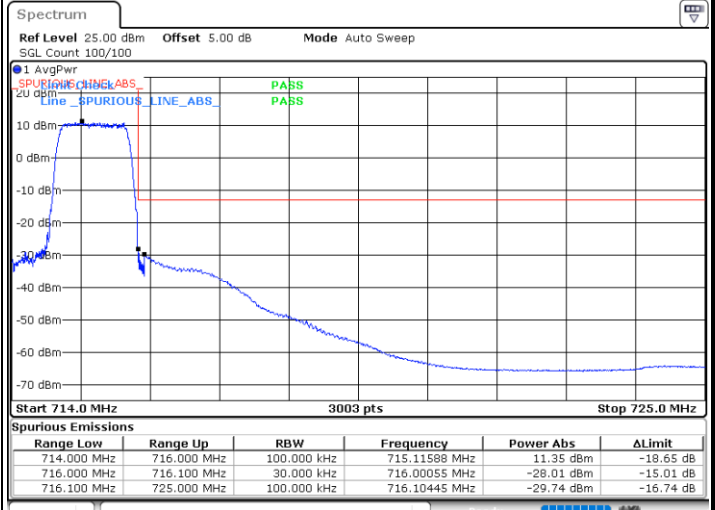
Date: 14.MAY.2024 15:03:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAY.2024 14:52:38

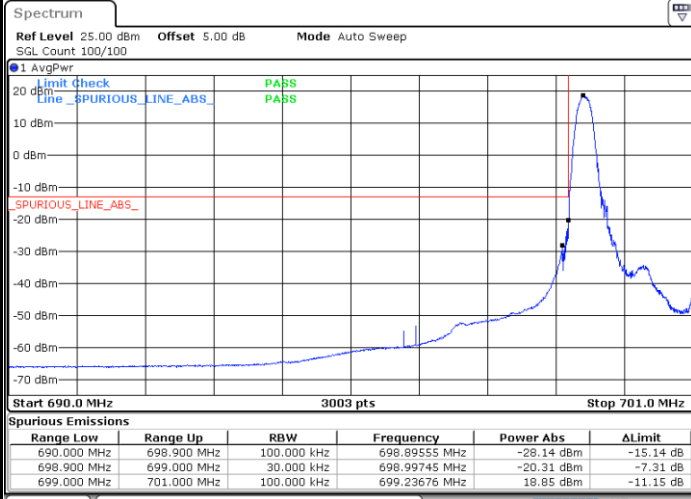


Date: 14.MAY.2024 15:08:43



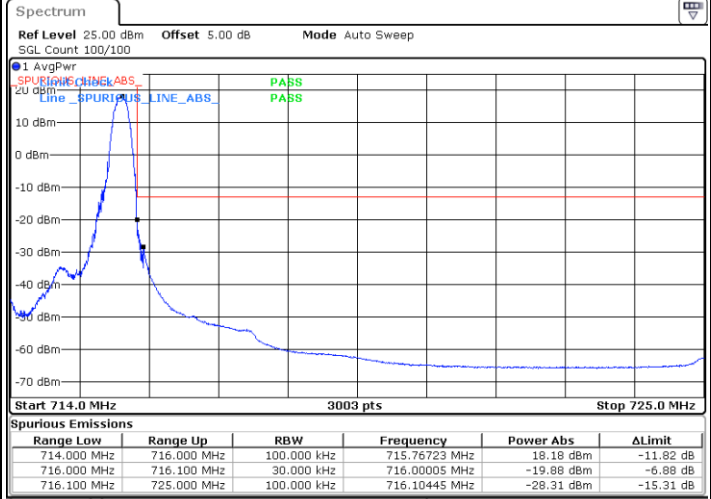
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



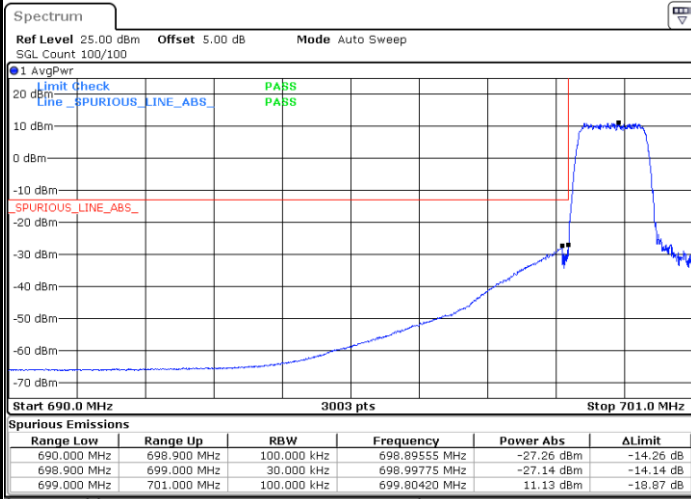
Date: 14.MAY.2024 14:47:05

Highest Band Edge / 1 RB



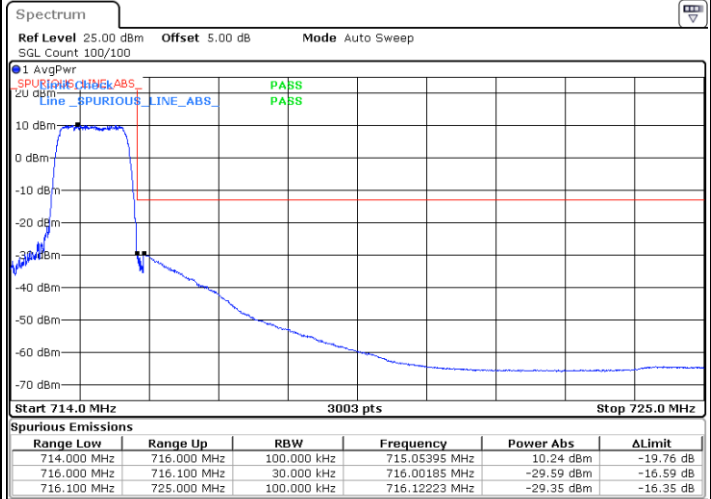
Date: 14.MAY.2024 15:04:32

Lowest Band Edge / Full RB



Date: 14.MAY.2024 14:54:01

Highest Band Edge / Full RB



Date: 14.MAY.2024 15:10:06



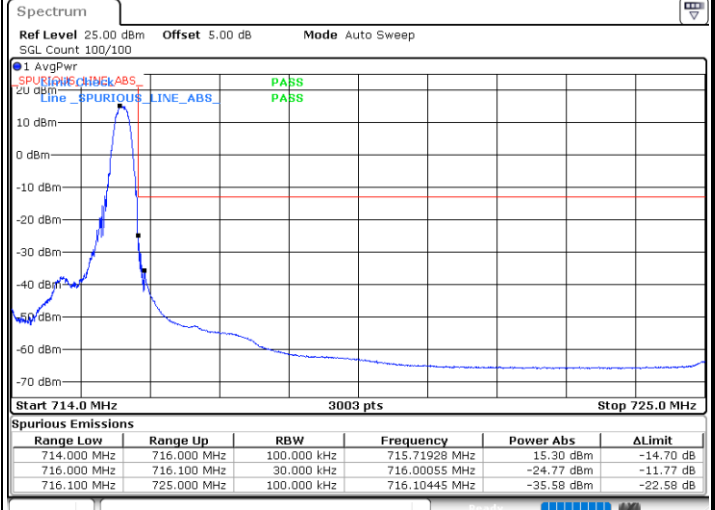
LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



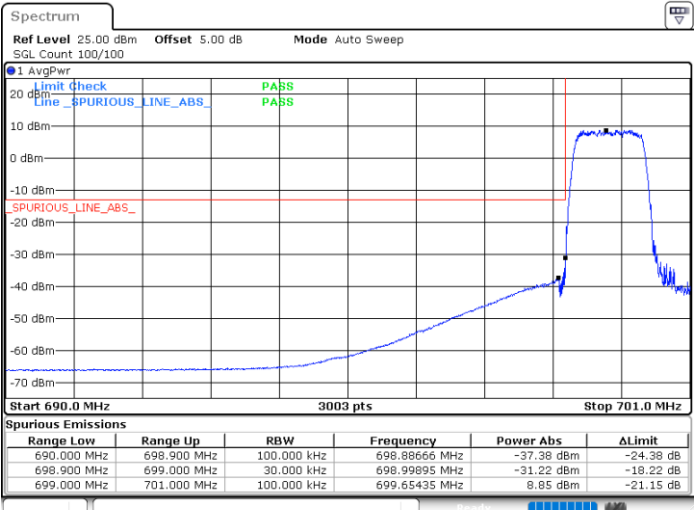
Date: 14.MAY.2024 14:48:29



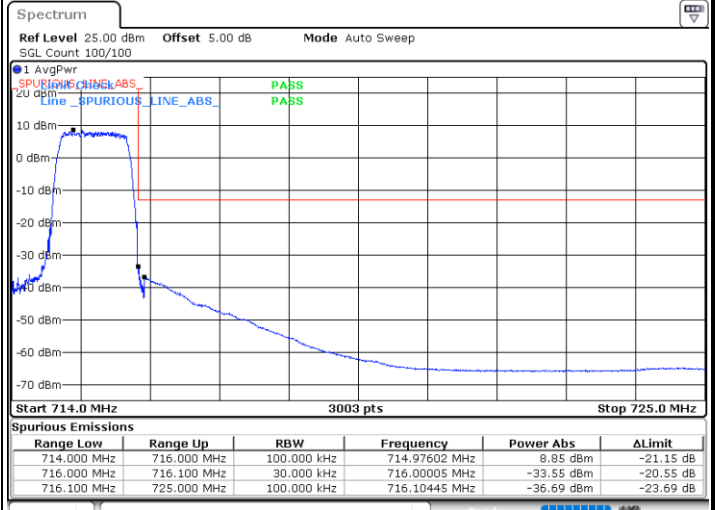
Date: 14.MAY.2024 15:05:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAY.2024 14:55:24



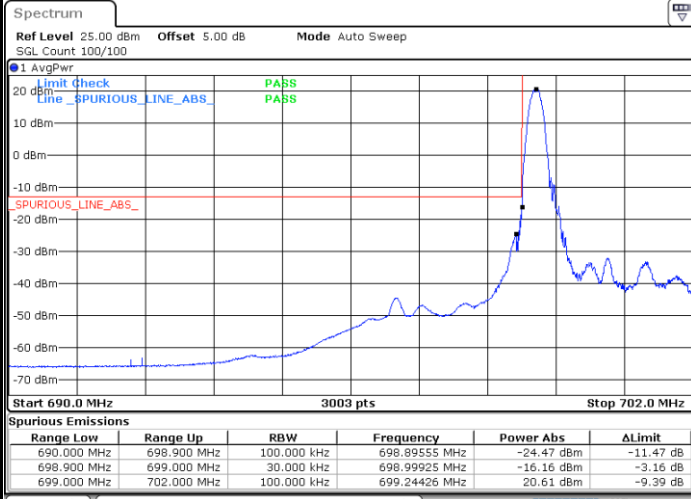
Date: 14.MAY.2024 15:11:29





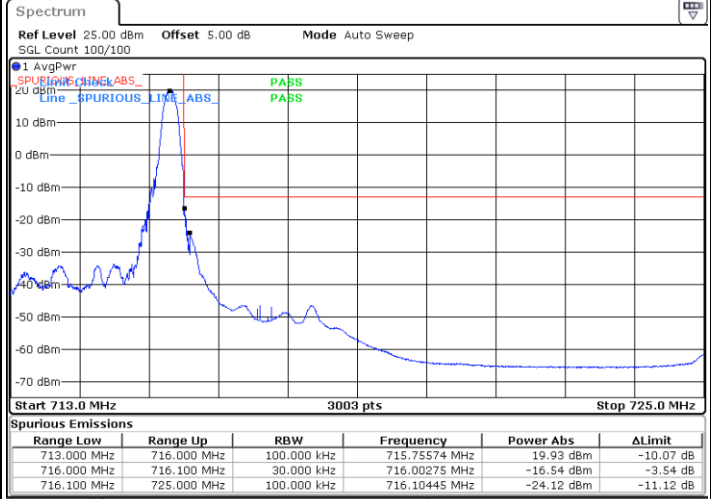
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



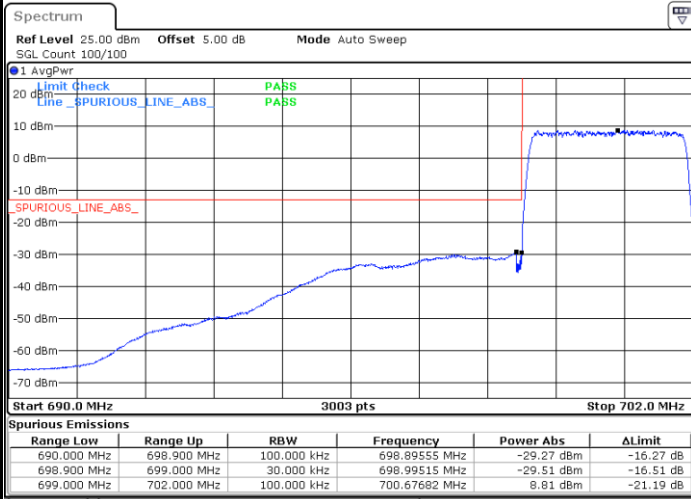
Date: 14.MAY.2024 15:15:42

Highest Band Edge / 1 RB



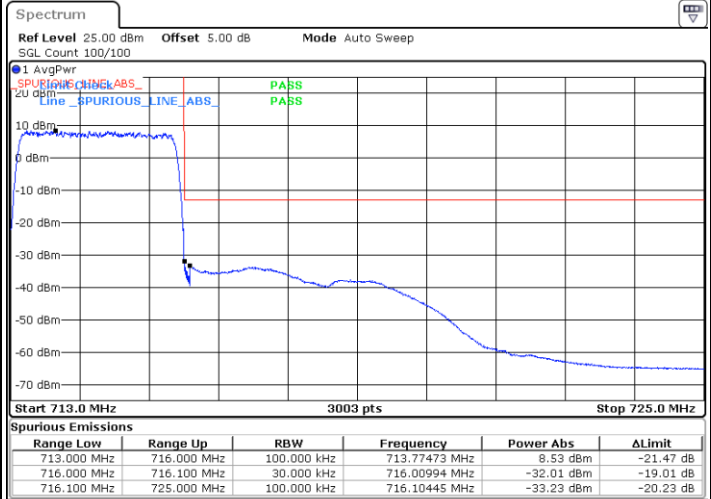
Date: 14.MAY.2024 15:31:49

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:21:22

Highest Band Edge / Full RB

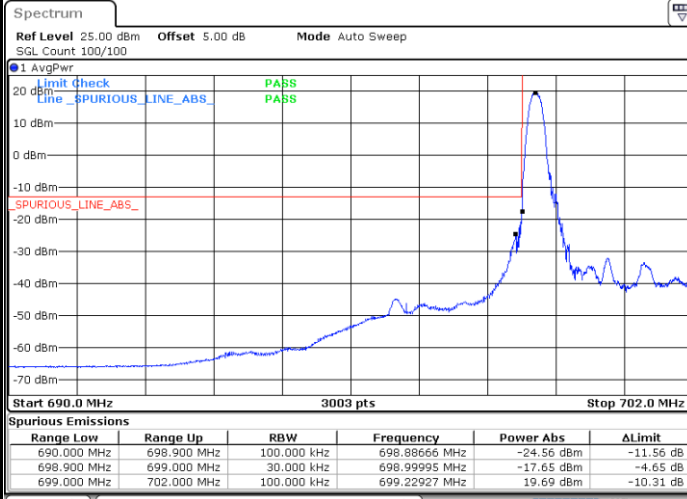


Date: 14.MAY.2024 15:37:26



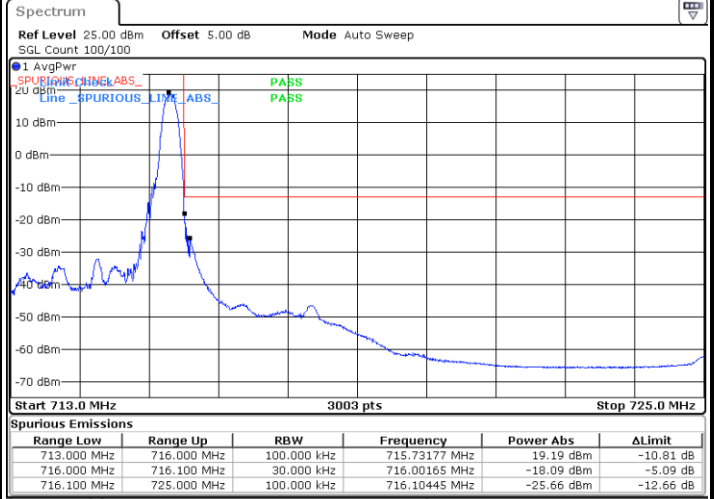
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



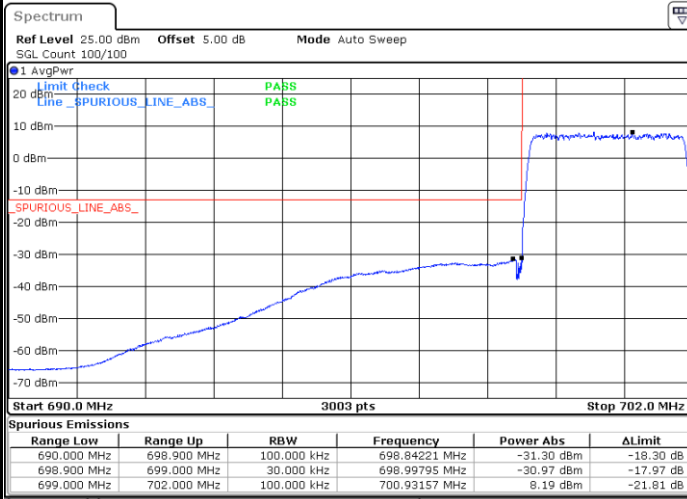
Date: 14.MAY.2024 15:17:12

Highest Band Edge / 1 RB



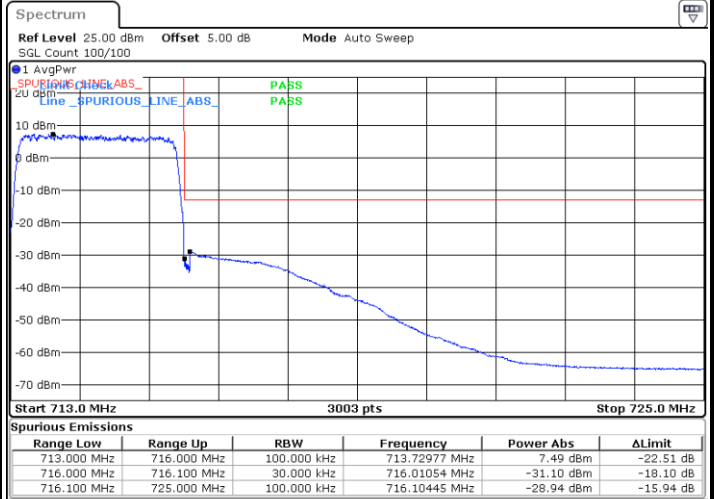
Date: 14.MAY.2024 15:33:16

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:22:45

Highest Band Edge / Full RB

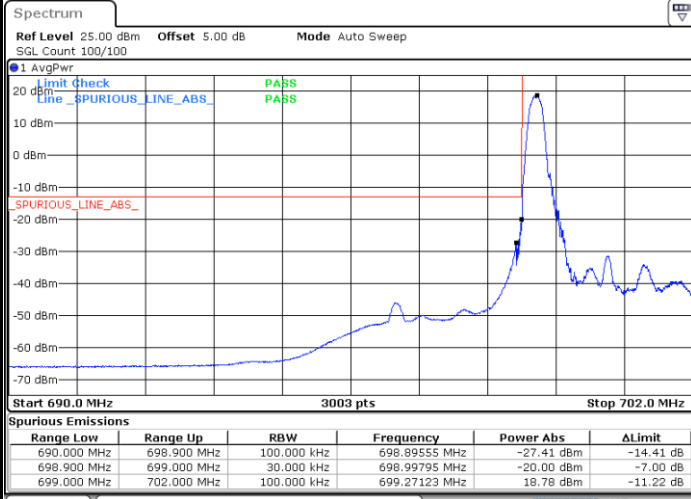


Date: 14.MAY.2024 15:38:49



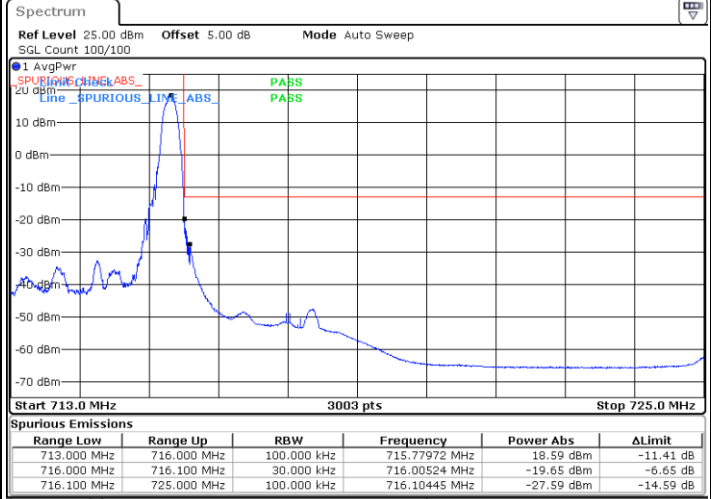
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



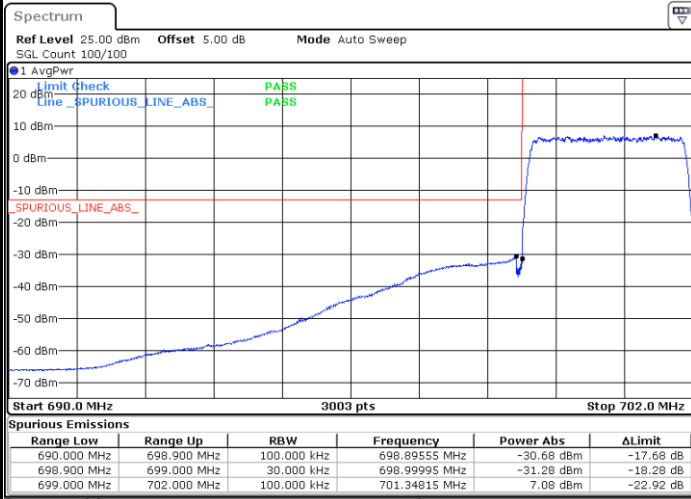
Date: 14.MAY.2024 15:18:36

Highest Band Edge / 1 RB



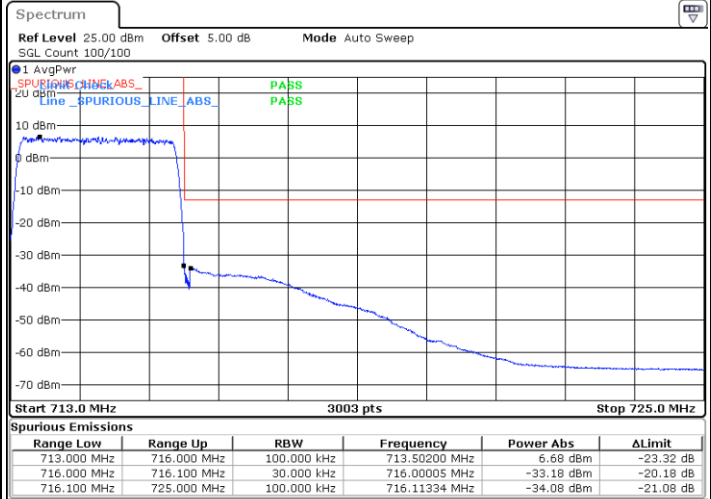
Date: 14.MAY.2024 15:34:39

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:24:08

Highest Band Edge / Full RB

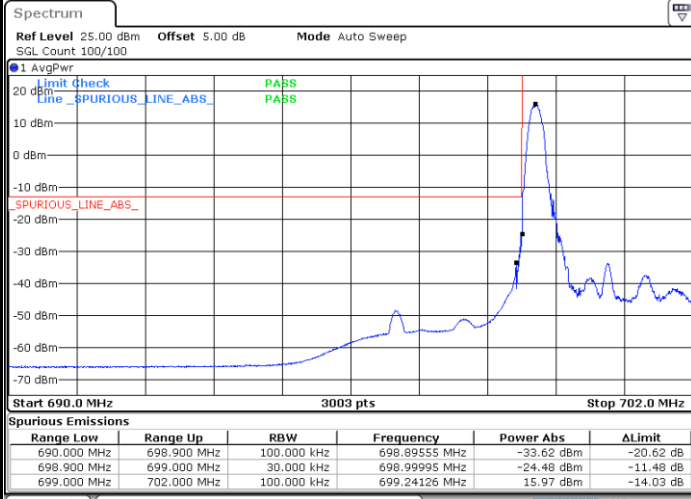


Date: 14.MAY.2024 15:40:12



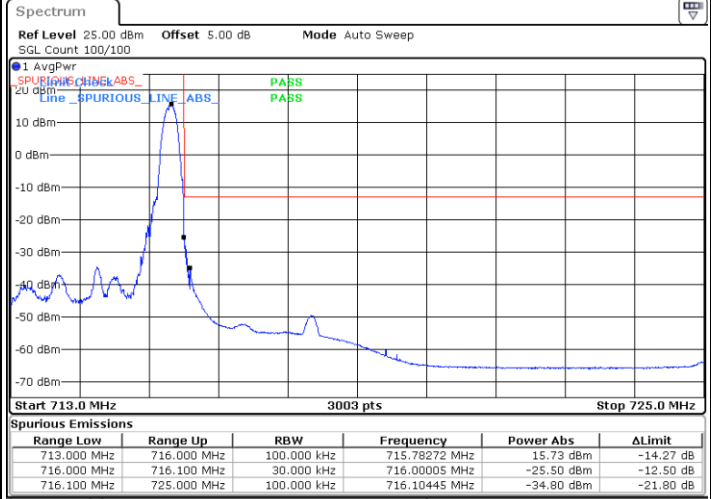
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



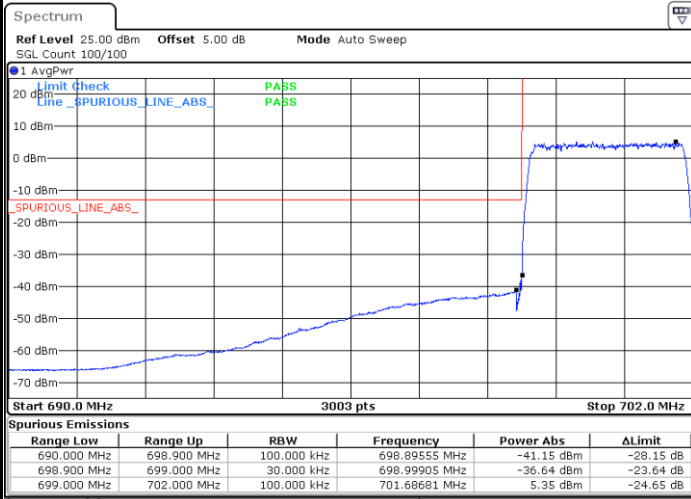
Date: 14.MAY.2024 15:19:59

Highest Band Edge / 1 RB



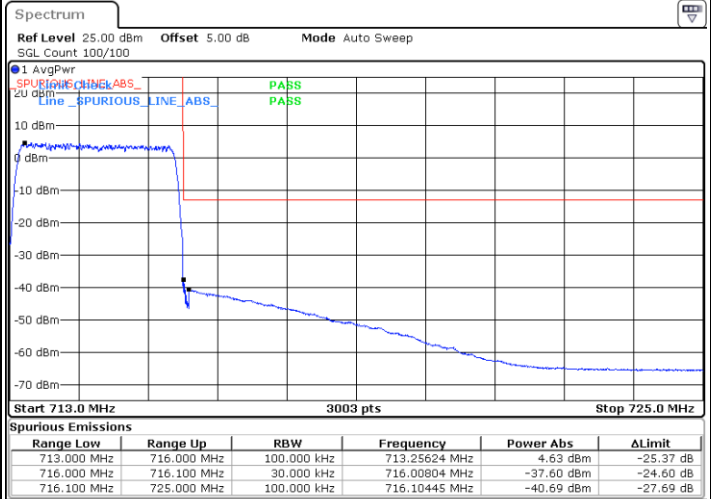
Date: 14.MAY.2024 15:36:02

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:25:31

Highest Band Edge / Full RB

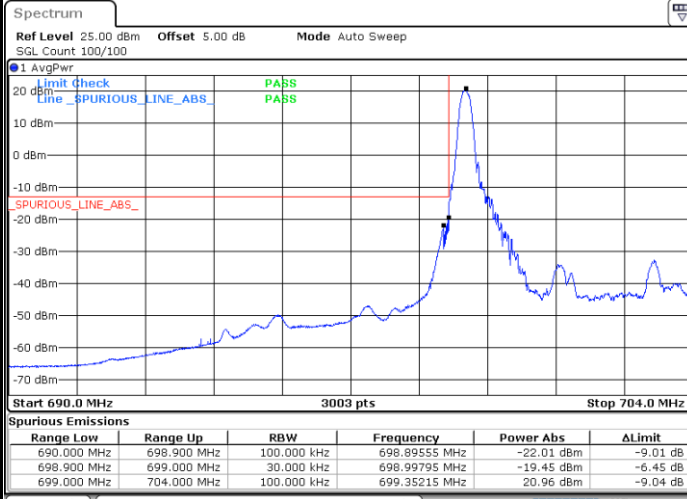


Date: 14.MAY.2024 15:41:36



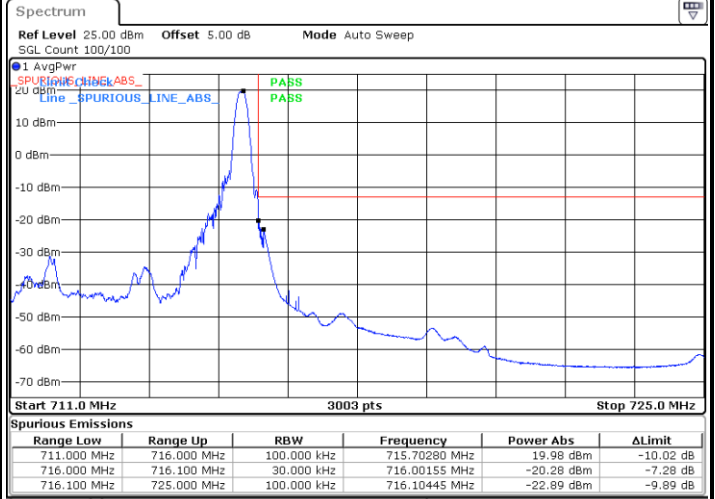
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



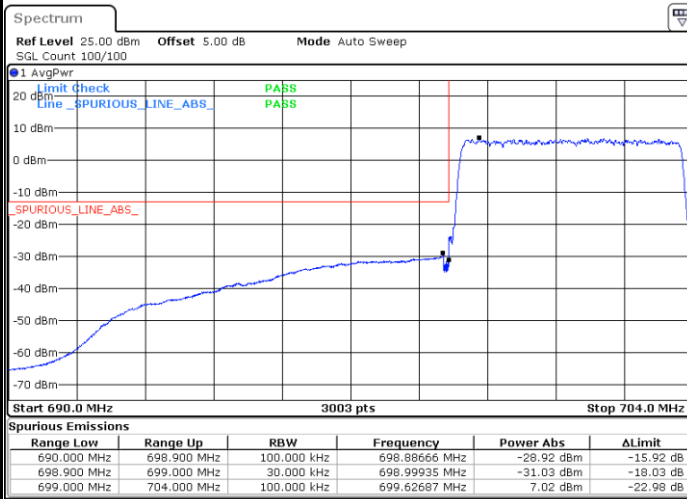
Date: 14.MAY.2024 15:46:56

Highest Band Edge / 1 RB



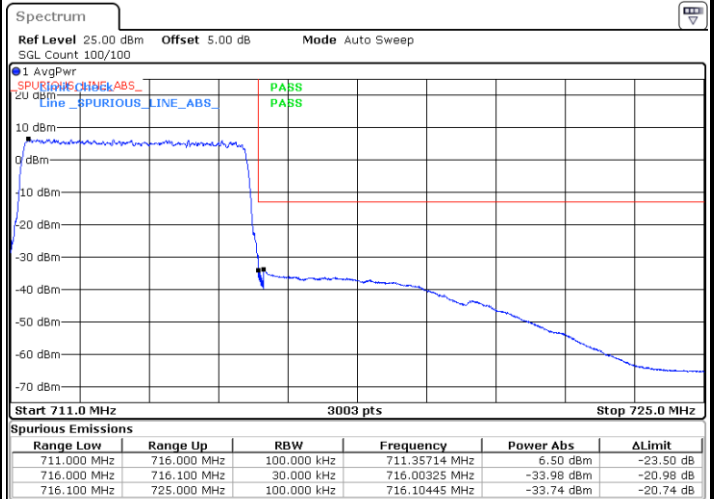
Date: 14.MAY.2024 16:03:01

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:52:33

Highest Band Edge / Full RB

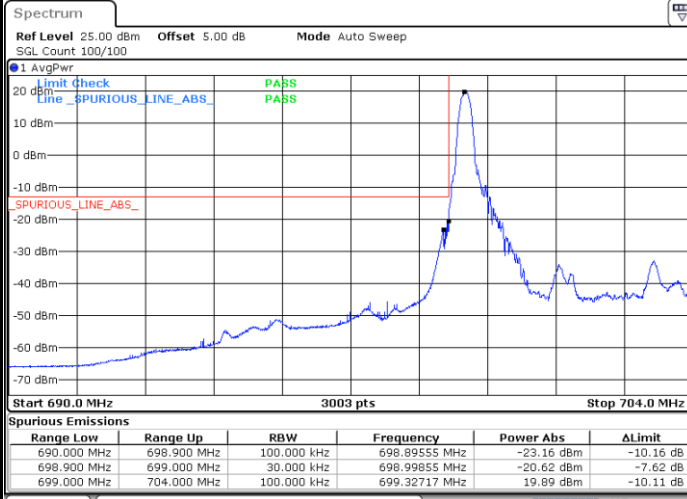


Date: 14.MAY.2024 16:08:42



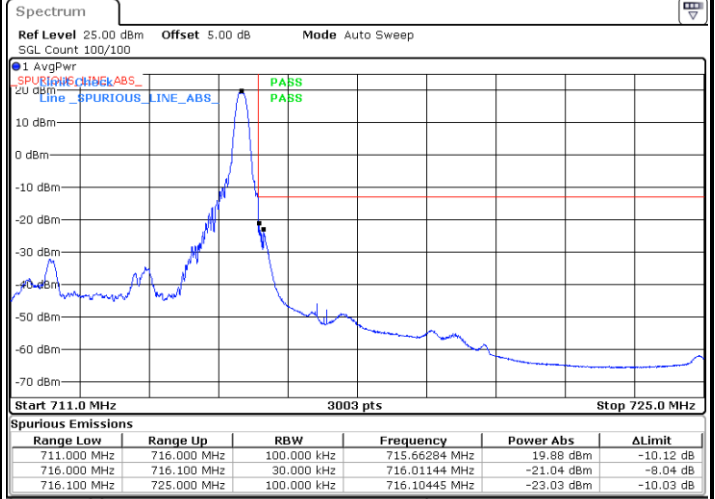
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



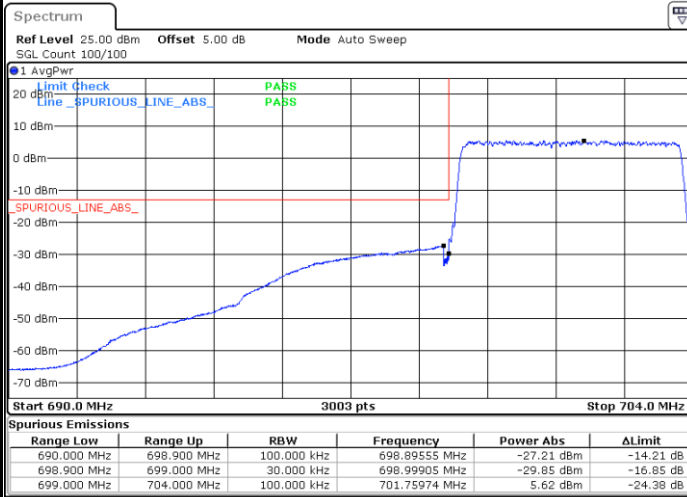
Date: 14.MAY.2024 15:48:23

Highest Band Edge / 1 RB



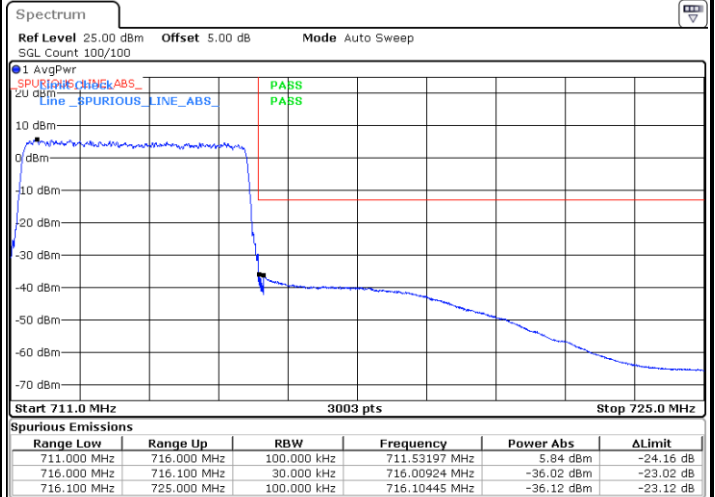
Date: 14.MAY.2024 16:04:32

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:53:56

Highest Band Edge / Full RB



Date: 14.MAY.2024 16:10:05