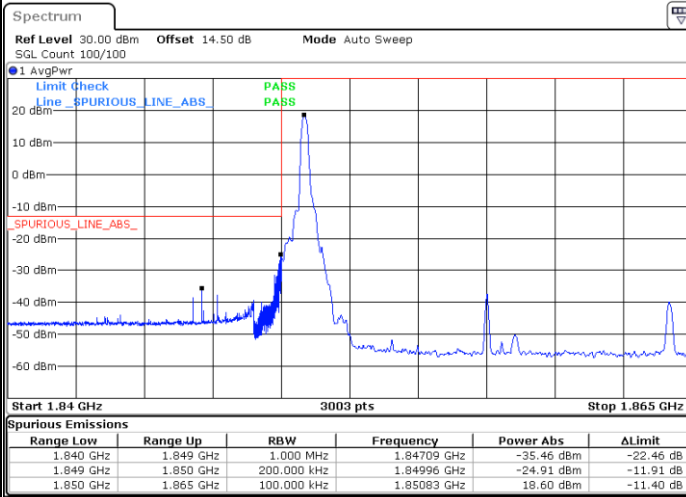




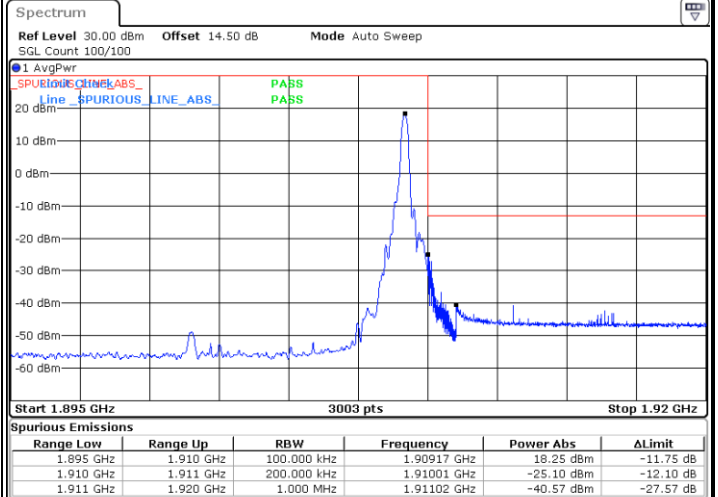
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



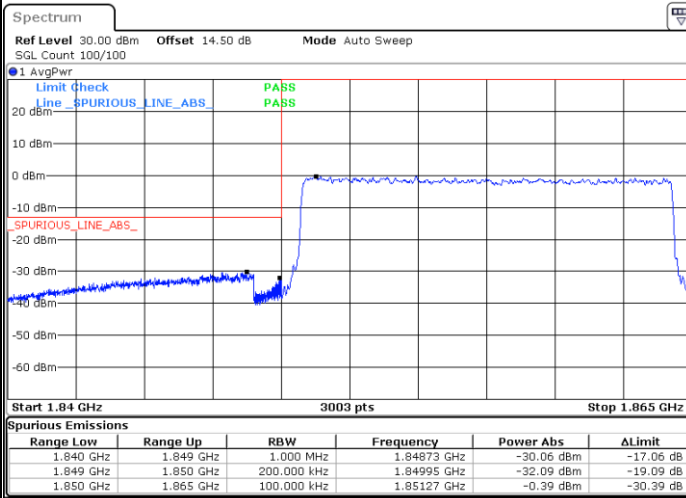
Date: 8.JAN.2024 22:06:16

Highest Band Edge / 1 RB



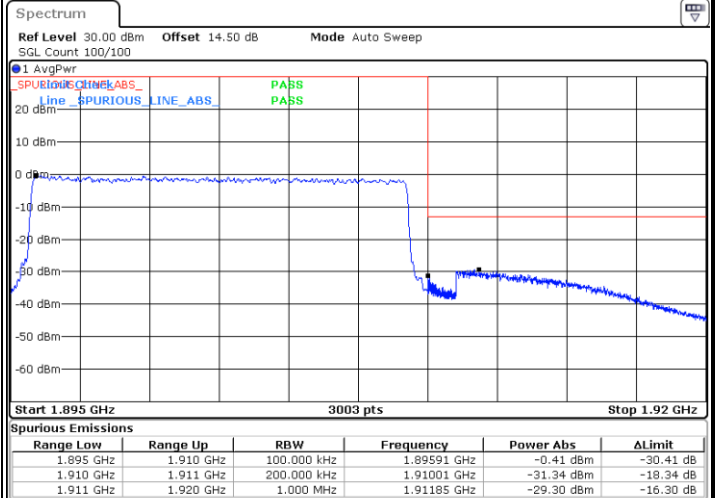
Date: 8.JAN.2024 22:15:05

Lowest Band Edge / Full RB



Date: 8.JAN.2024 22:08:50

Highest Band Edge / Full RB

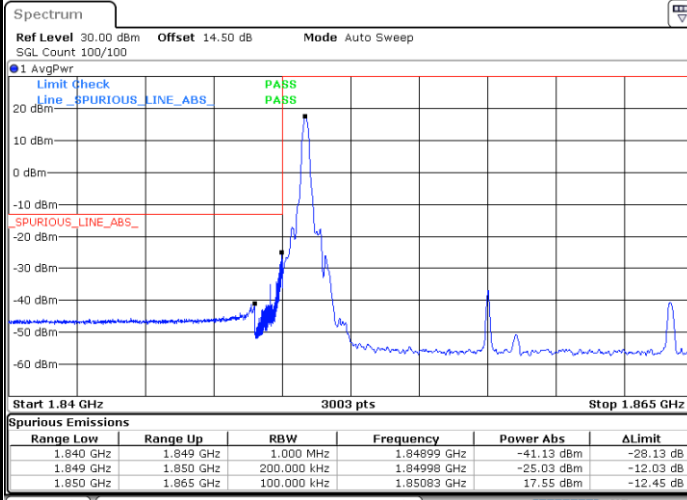


Date: 8.JAN.2024 22:17:39



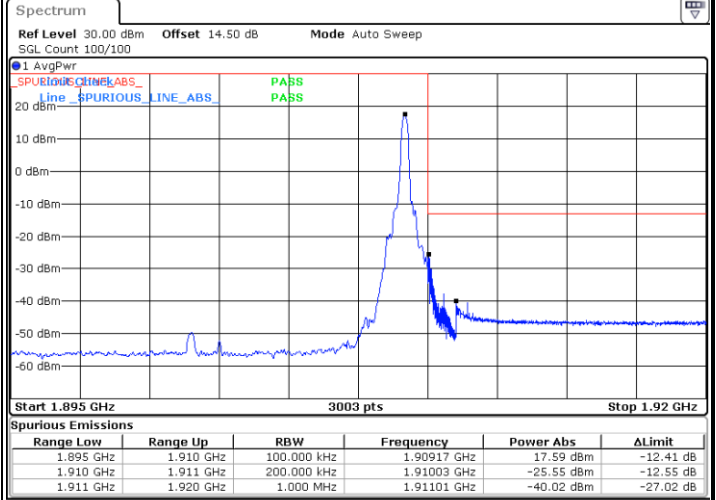
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



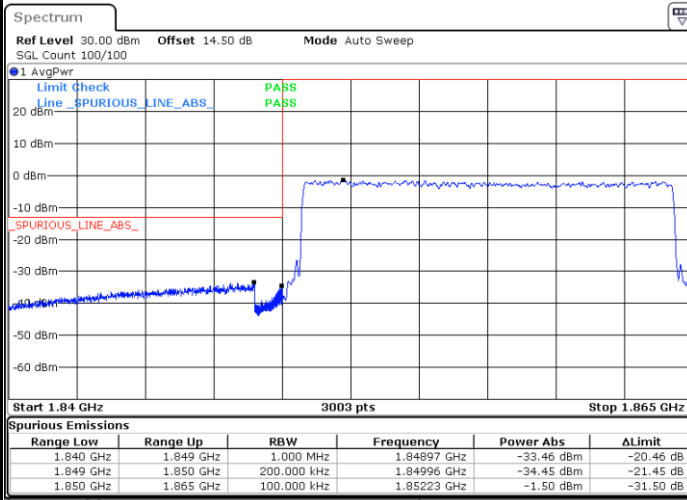
Date: 8.JAN.2024 22:07:07

Highest Band Edge / 1 RB



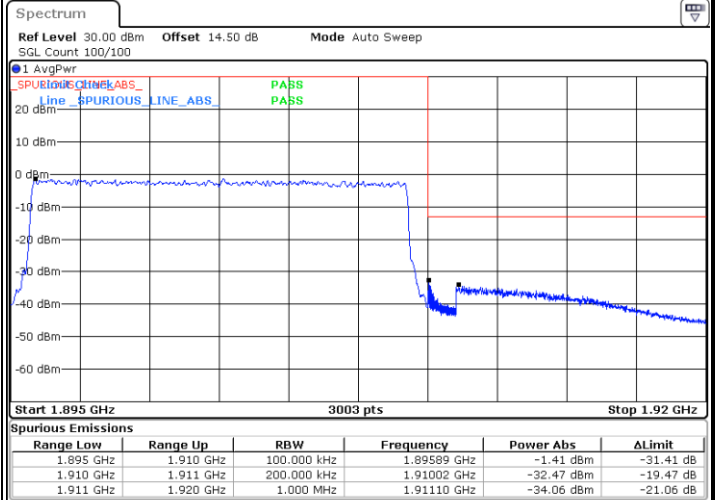
Date: 8.JAN.2024 22:15:57

Lowest Band Edge / Full RB



Date: 8.JAN.2024 22:09:41

Highest Band Edge / Full RB

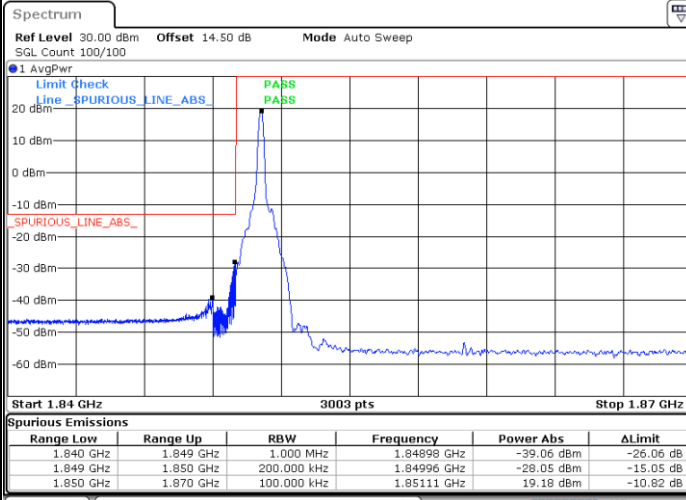


Date: 8.JAN.2024 22:18:31



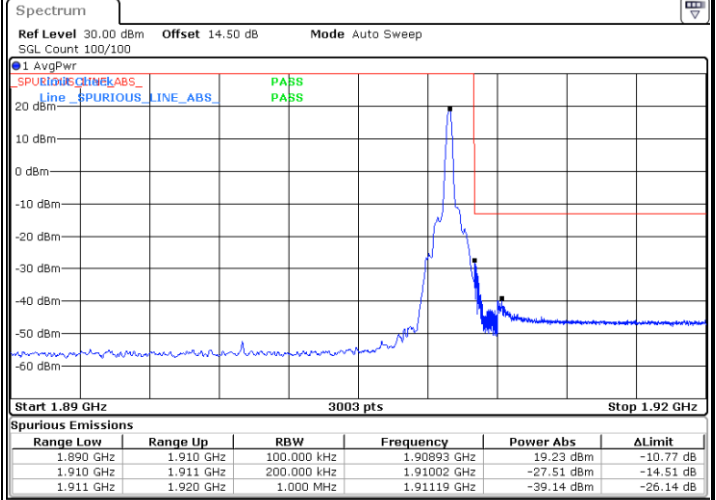
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1RB



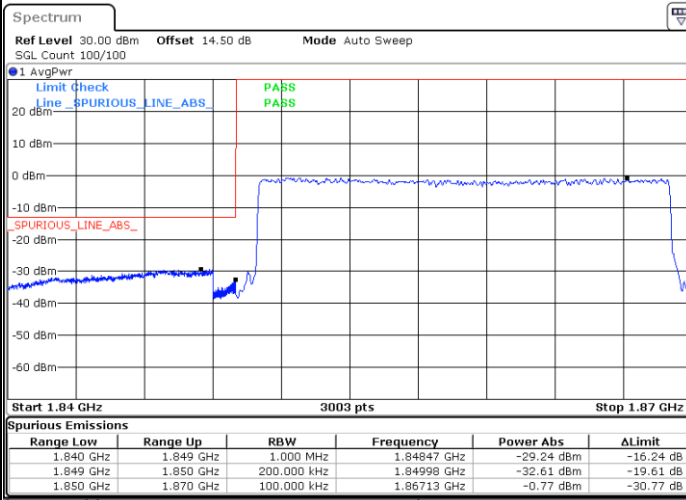
Date: 8.JAN.2024 22:21:18

Highest Band Edge / 1RB



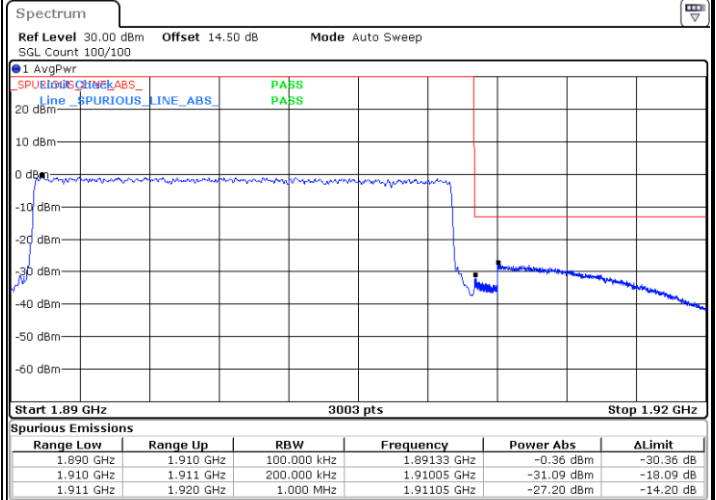
Date: 8.JAN.2024 22:31:31

Lowest Band Edge / Full RB



Date: 8.JAN.2024 22:23:54

Highest Band Edge / Full RB

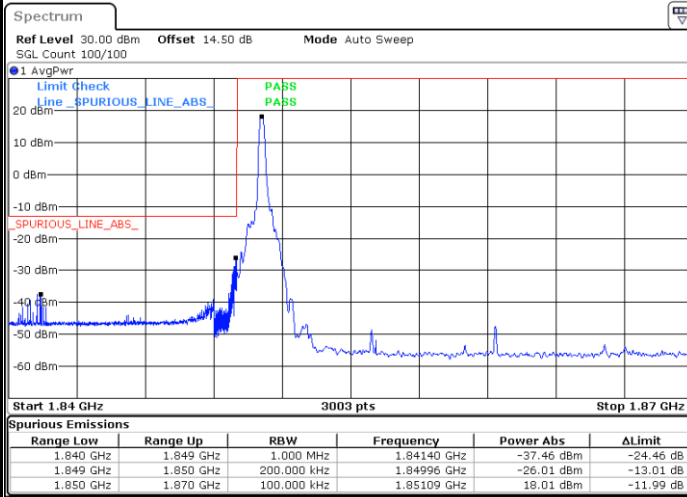


Date: 8.JAN.2024 22:34:05



LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



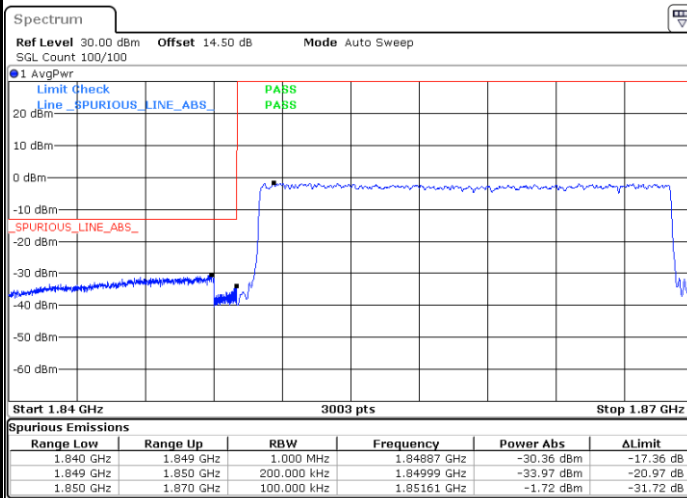
Date: 8.JAN.2024 22:22:10

Highest Band Edge / 1 RB



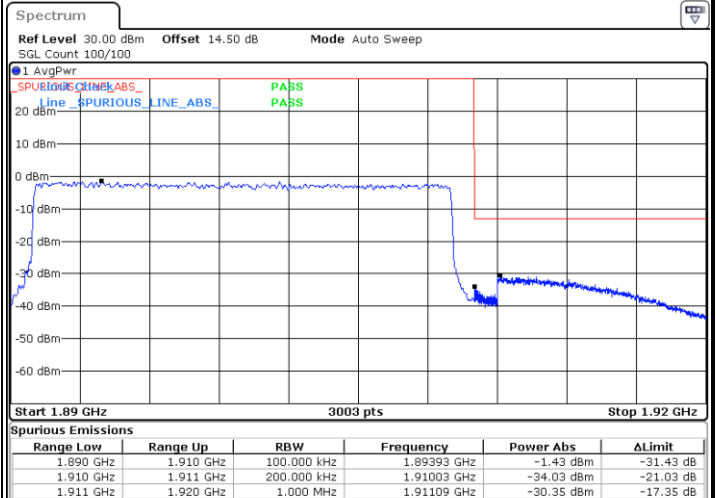
Date: 8.JAN.2024 22:32:22

Lowest Band Edge / Full RB



Date: 8.JAN.2024 22:24:46

Highest Band Edge / Full RB

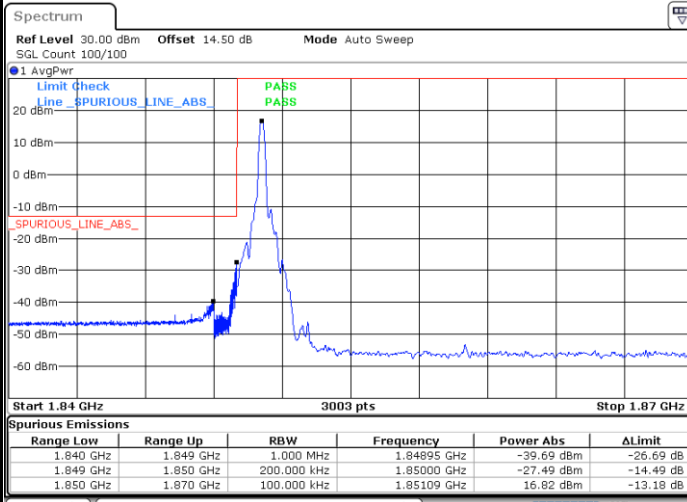


Date: 8.JAN.2024 22:34:57



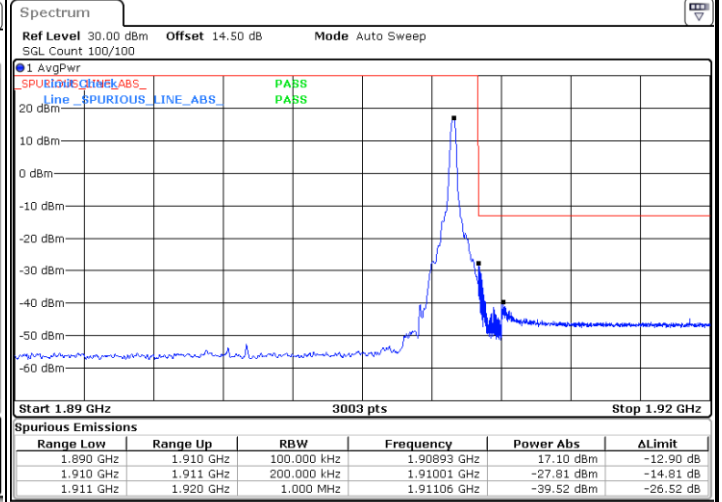
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



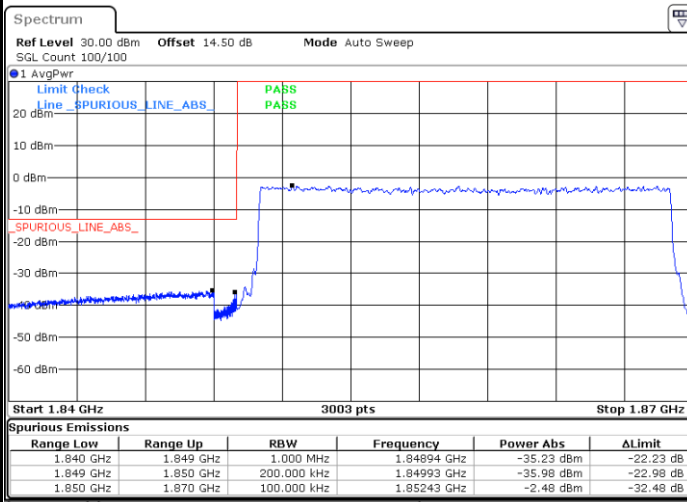
Date: 8.JAN.2024 22:23:01

Highest Band Edge / 1 RB



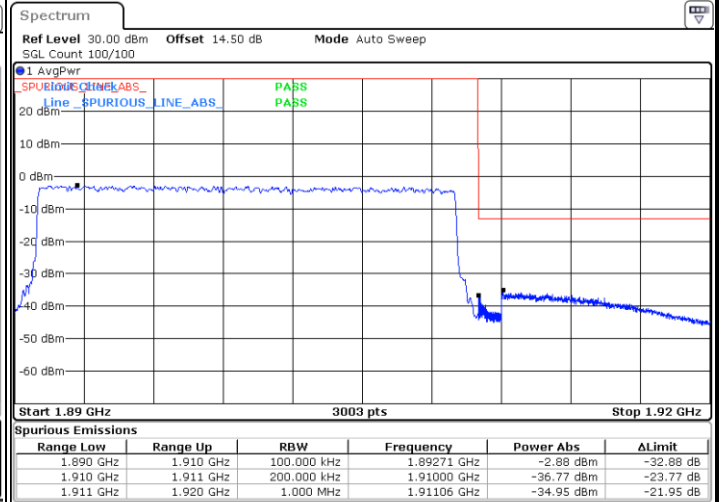
Date: 8.JAN.2024 22:33:14

Lowest Band Edge / Full RB



Date: 8.JAN.2024 22:25:37

Highest Band Edge / Full RB



Date: 8.JAN.2024 22:35:48

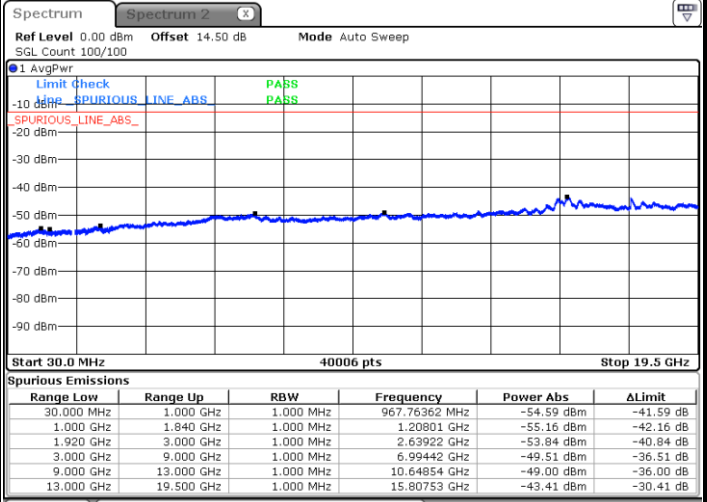
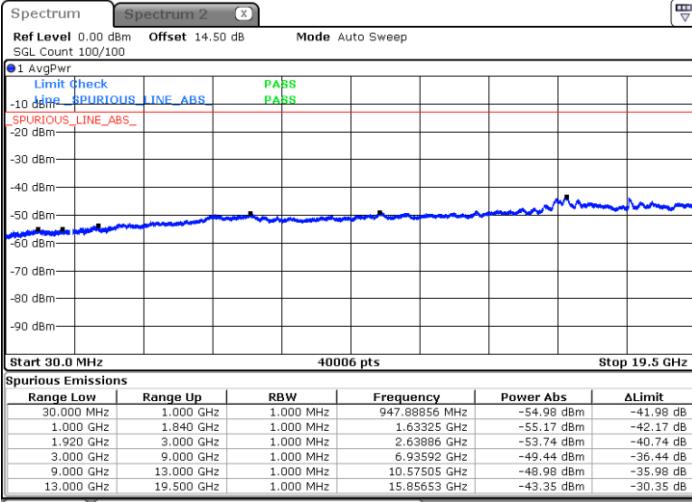


# Conducted Spurious Emission

## LTE Band 2 / 1.4MHz

### Lowest Channel / QPSK

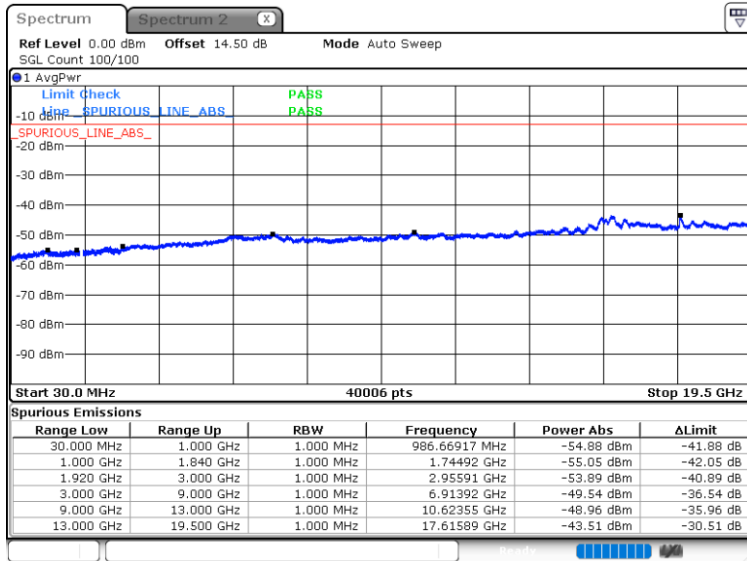
### Middle Channel / QPSK



Date: 8.JAN.2024 20:54:37

Date: 8.JAN.2024 20:58:22

### Highest Channel / QPSK



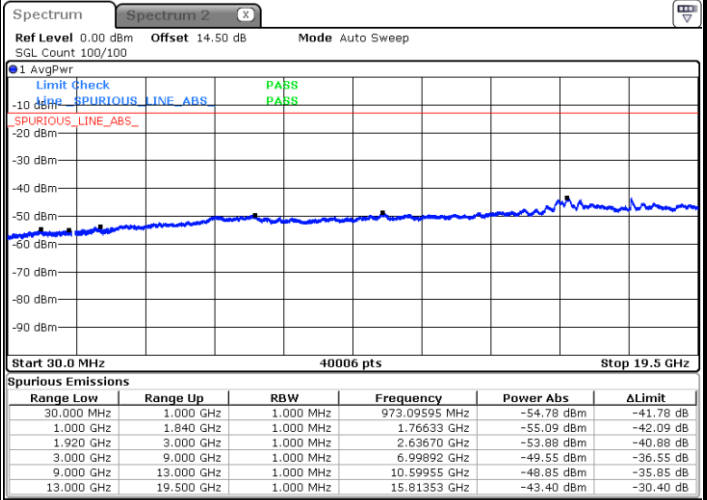
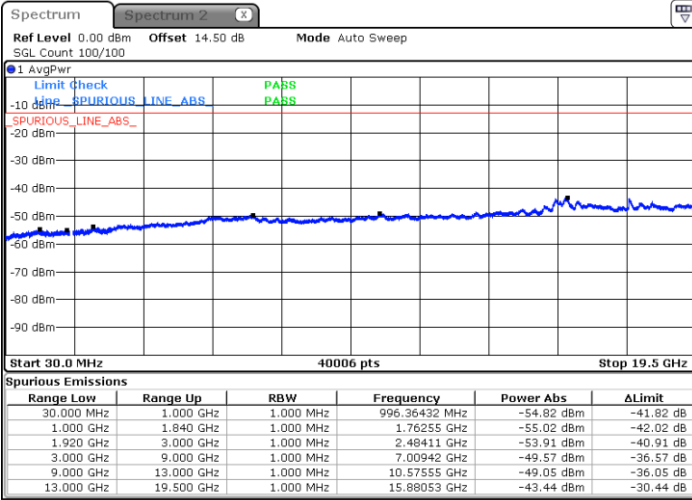
Date: 8.JAN.2024 21:12:28



LTE Band 2 / 3MHz

Lowest Channel / QPSK

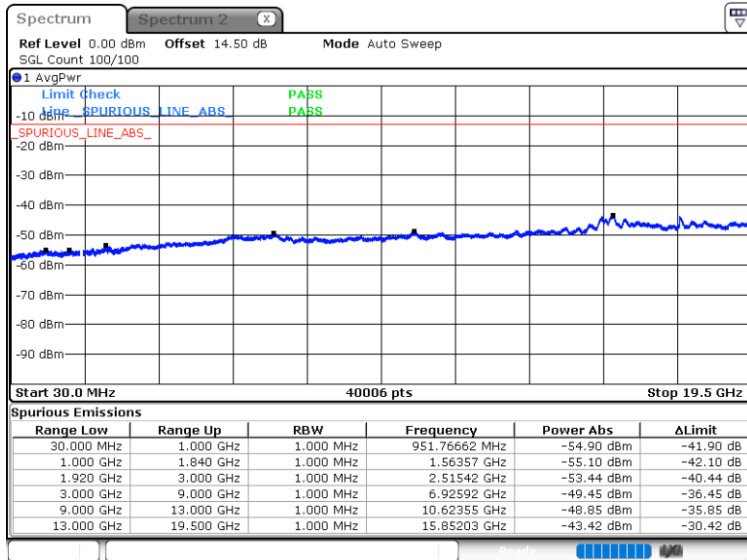
Middle Channel / QPSK



Date: 8.JAN.2024 21:19:31

Date: 8.JAN.2024 21:23:16

Highest Channel / QPSK



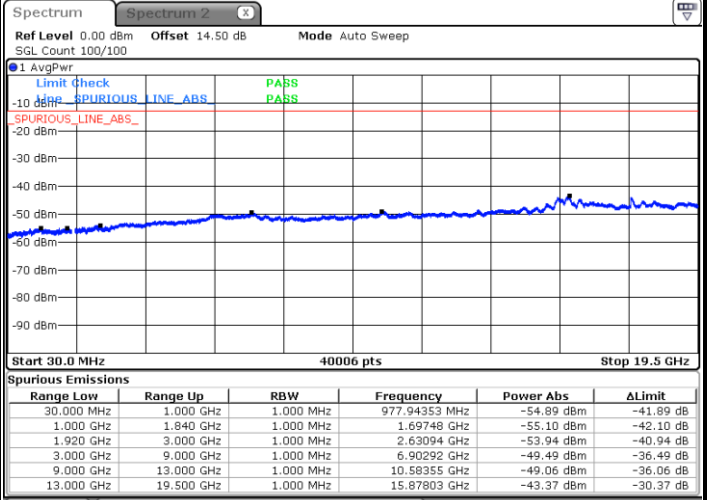
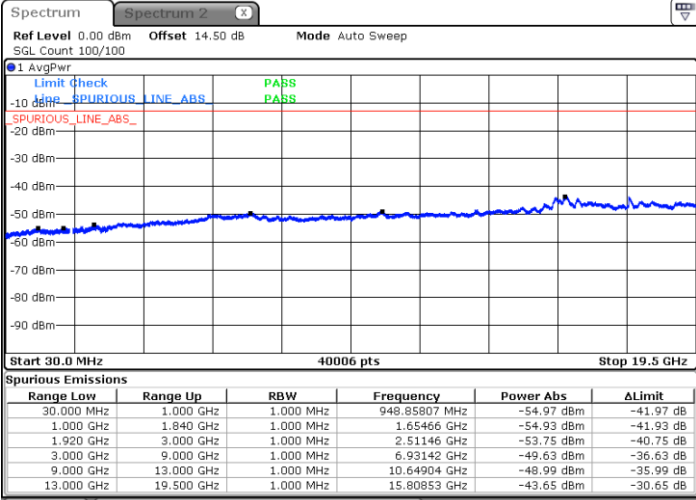
Date: 8.JAN.2024 21:30:55



LTE Band 2 / 5MHz

Lowest Channel / QPSK

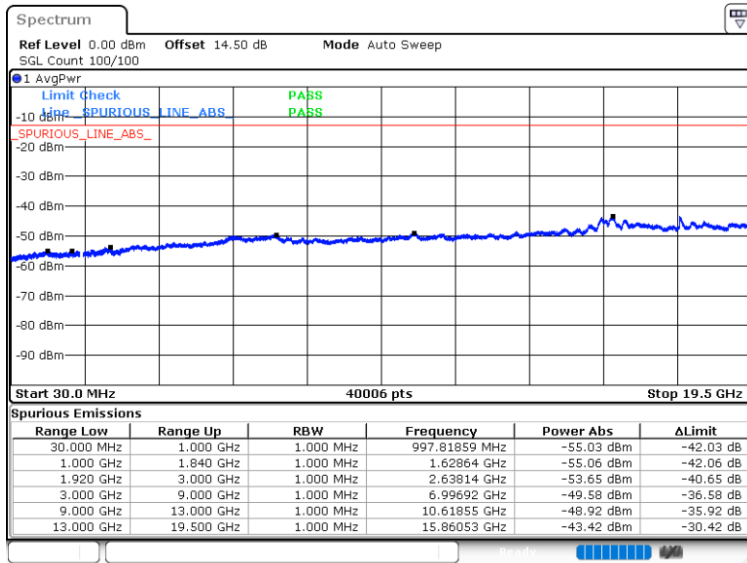
Middle Channel / QPSK



Date: 8.JAN.2024 21:35:25

Date: 8.JAN.2024 21:39:10

Highest Channel / QPSK



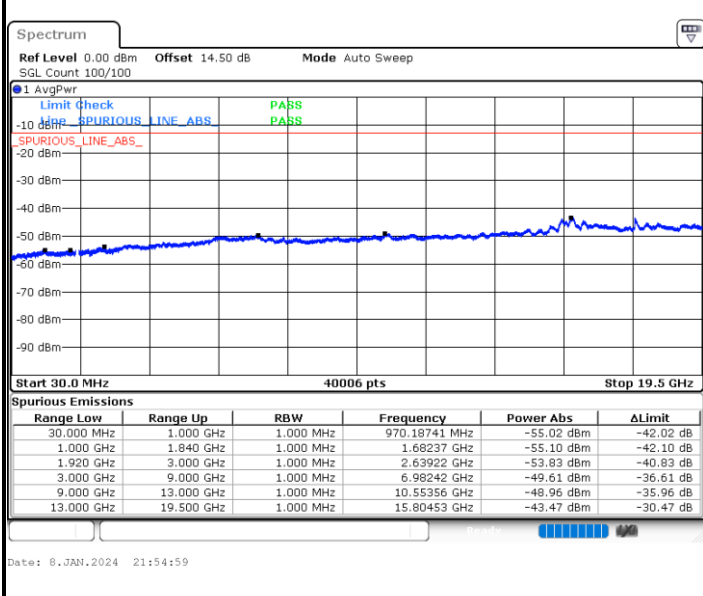
Date: 8.JAN.2024 21:47:54



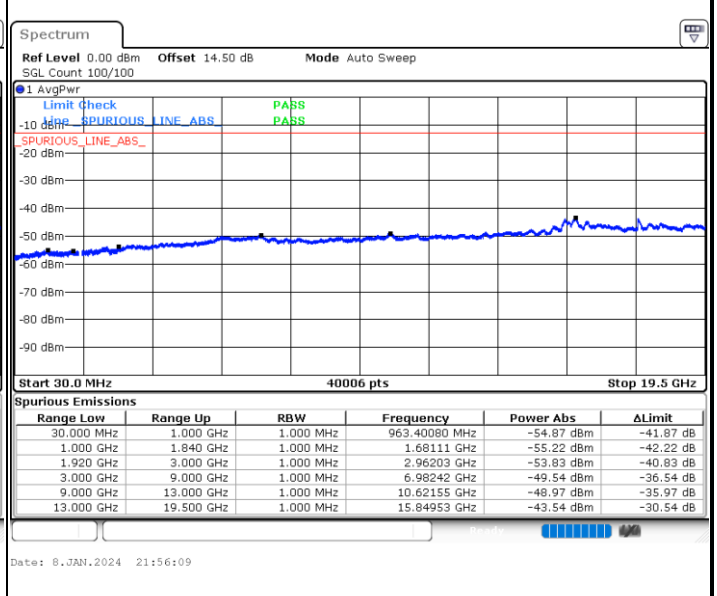


**LTE Band 2 / 10MHz**

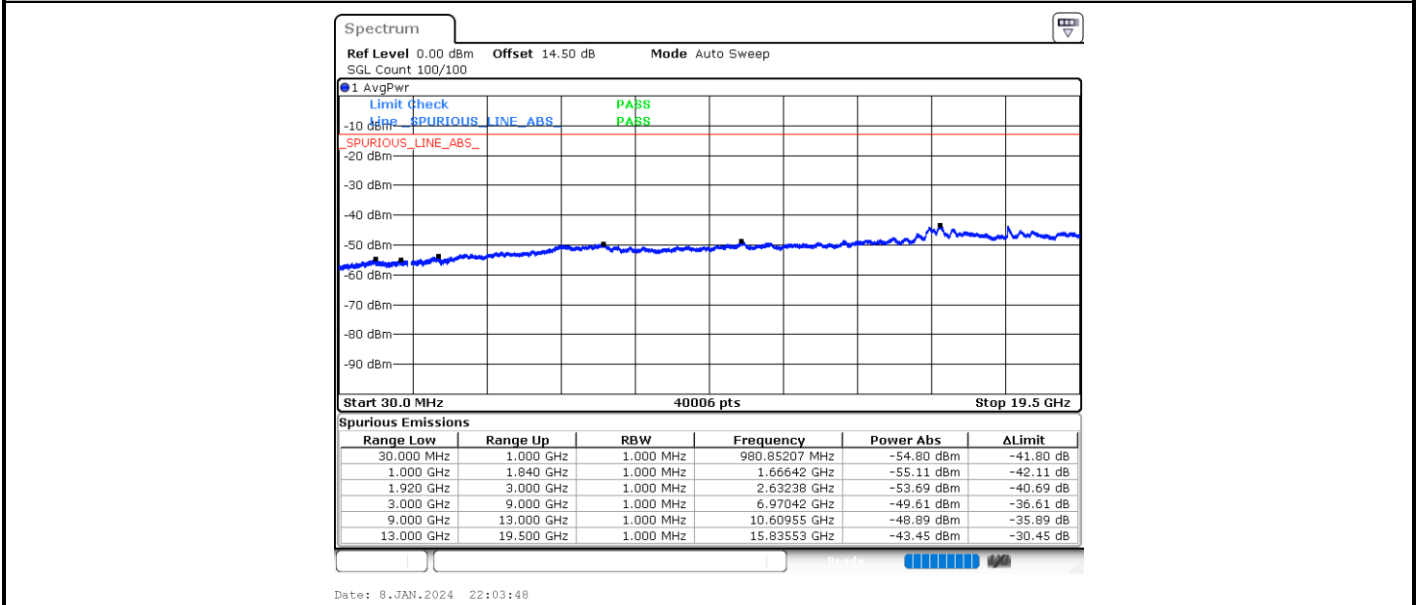
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

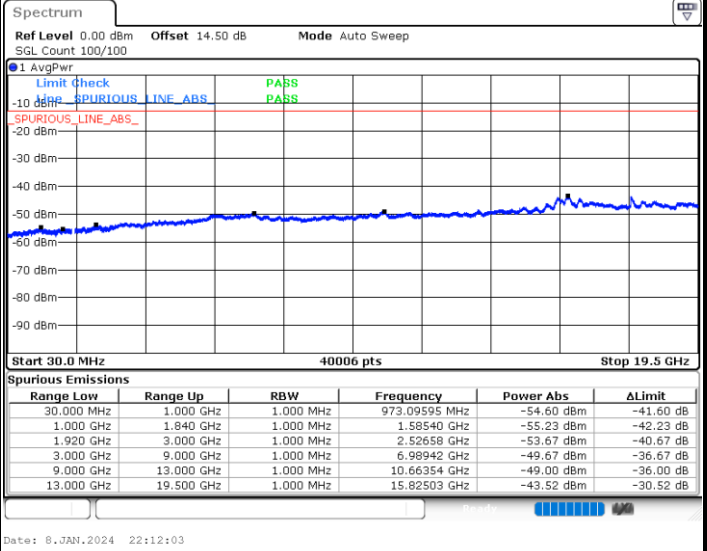
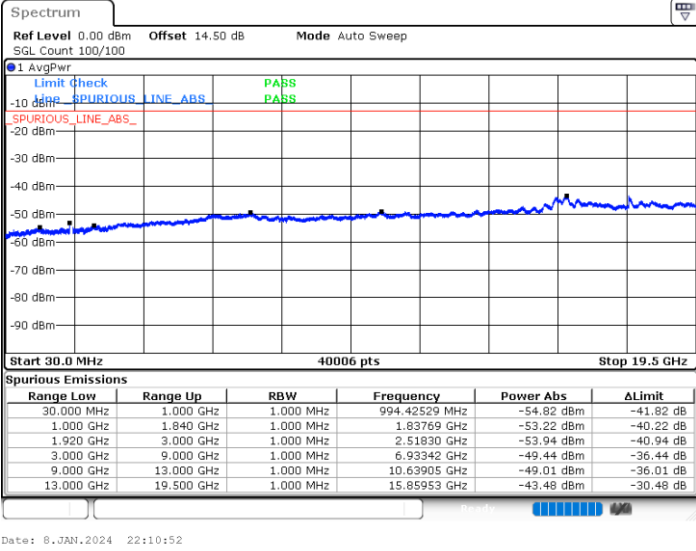




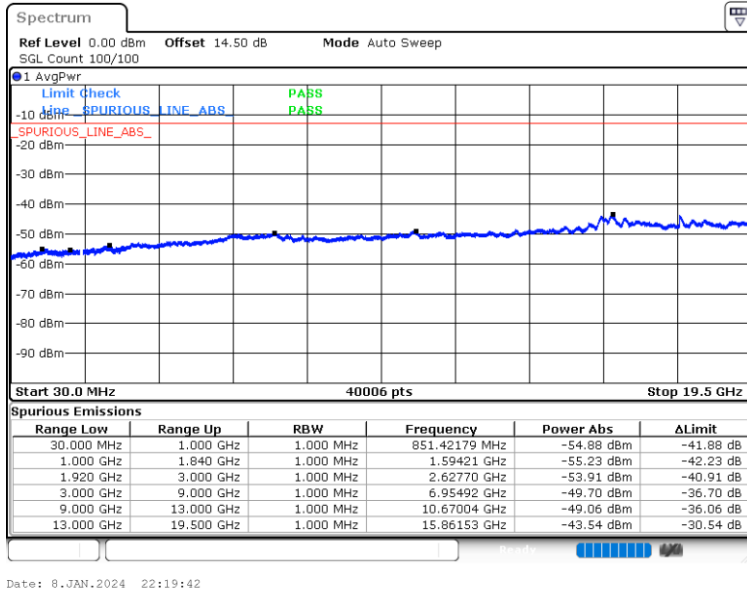
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

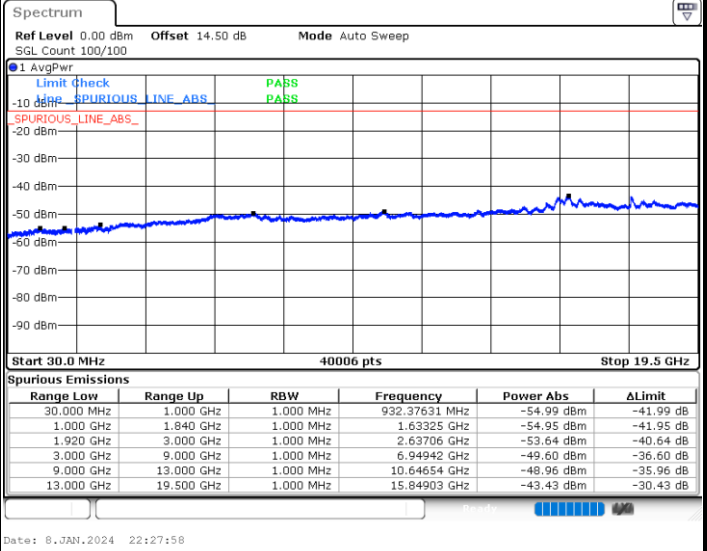
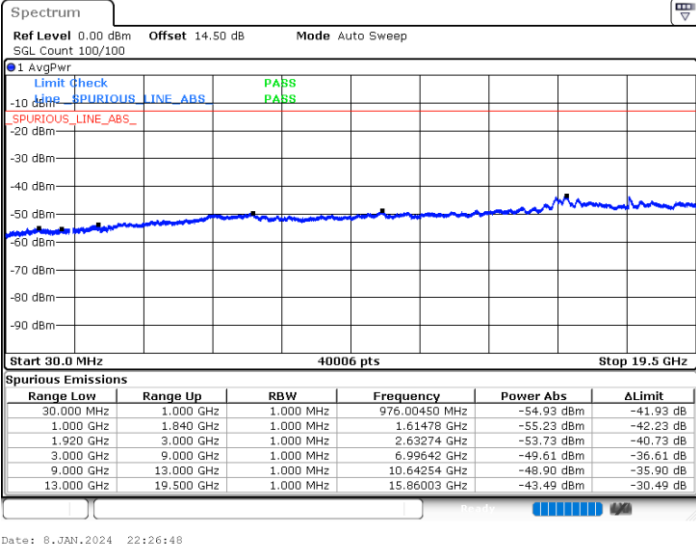




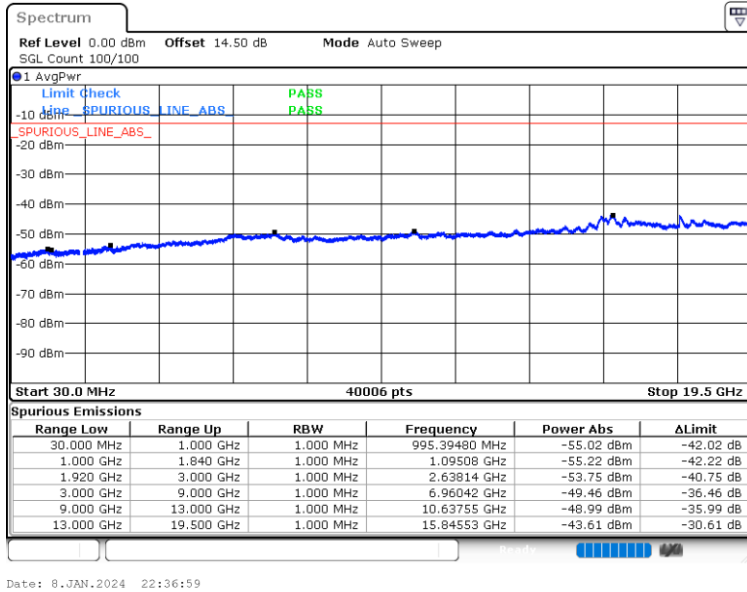
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





### 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	0.0007	PASS
40	Normal Voltage	0.0074	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0076	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0075	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

**Note:**

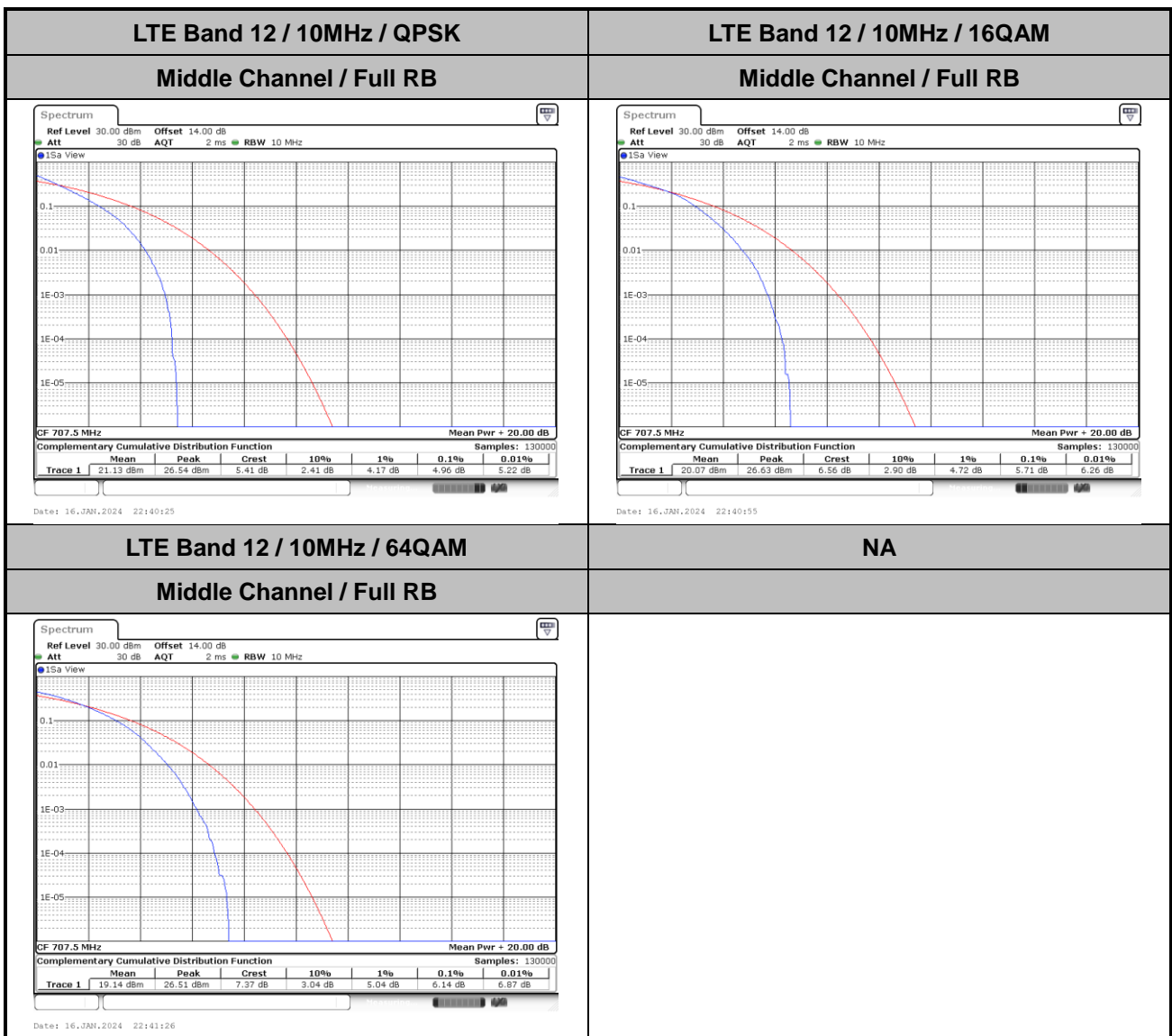
1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 12

## Peak-to-Average Ratio

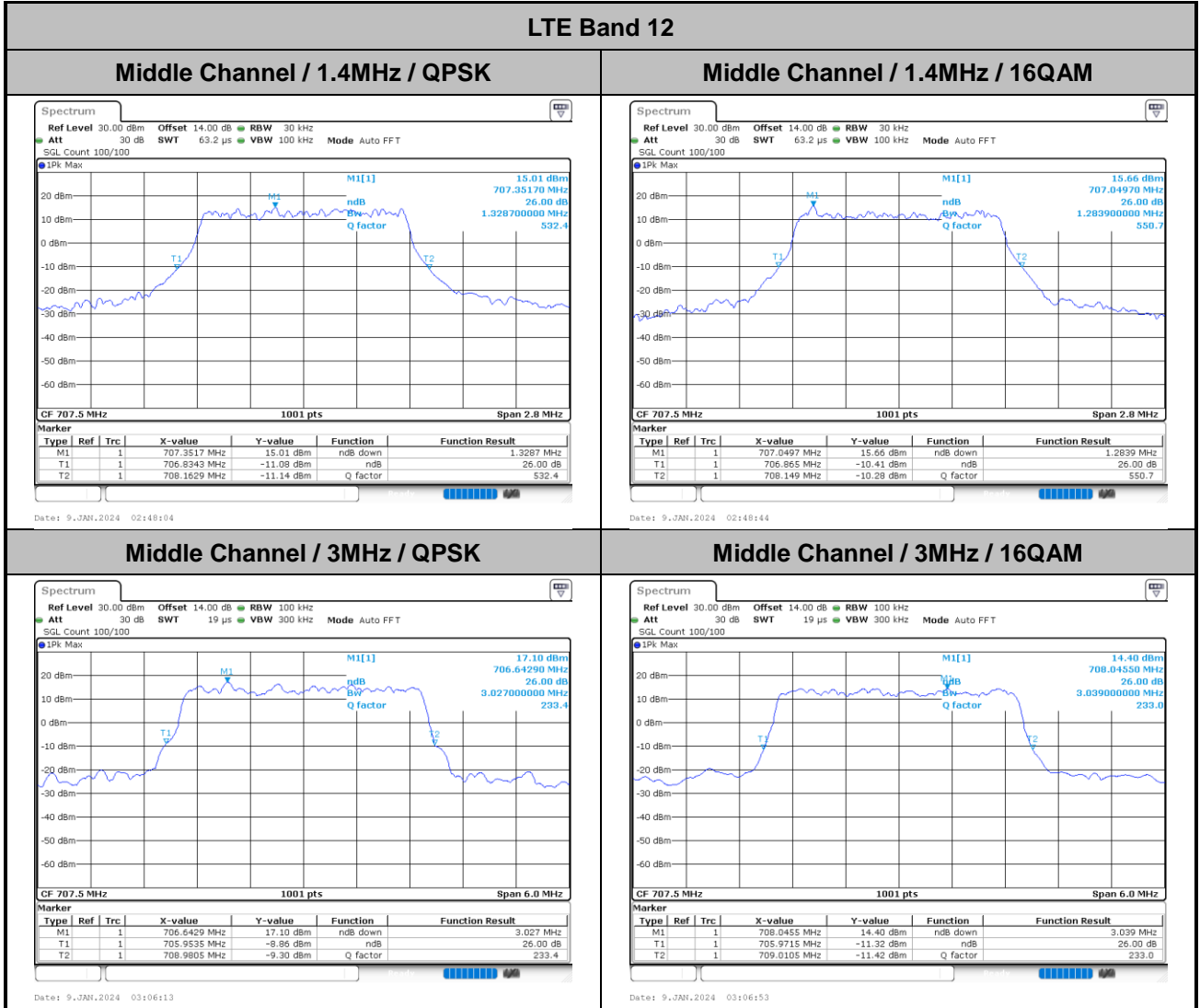
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.71	6.14	PASS





## 26dB Bandwidth

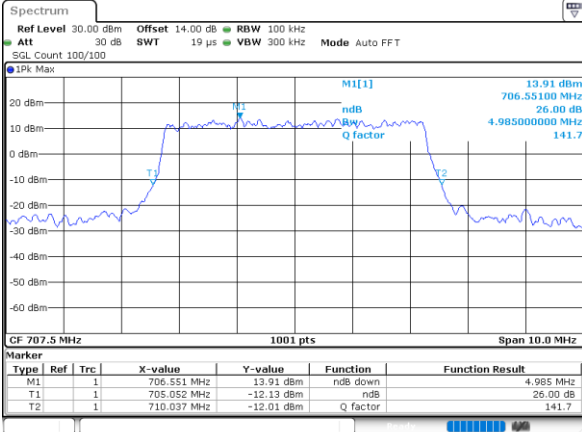
Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.33	1.28	3.03	3.04	4.99	5.05	9.87	10.19





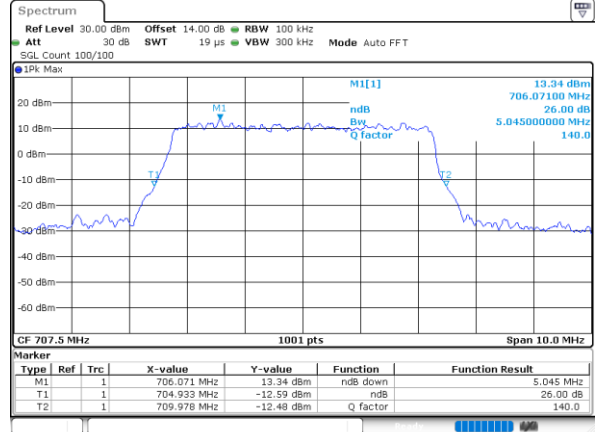
LTE Band 12

Middle Channel / 5MHz / QPSK



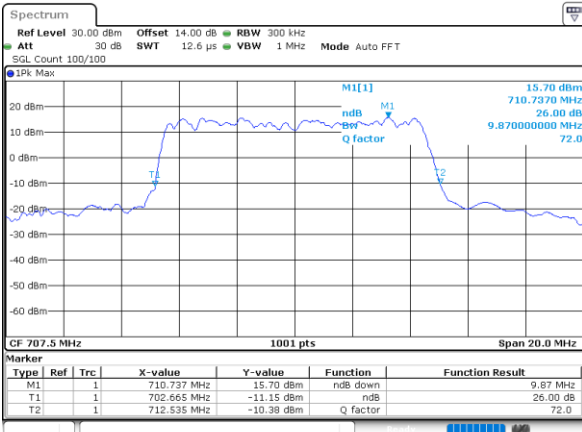
Date: 9, JAN, 2024 03:24:22

Middle Channel / 5MHz / 16QAM



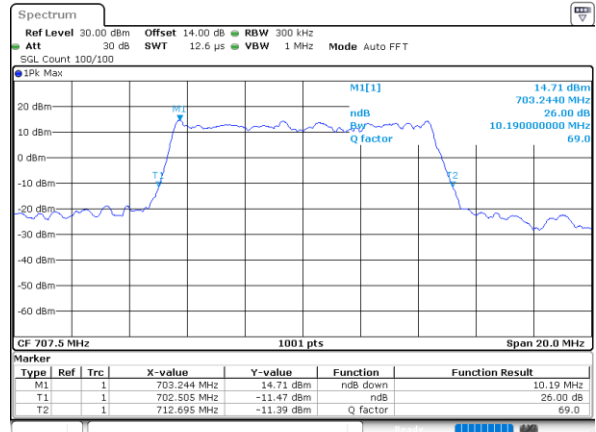
Date: 9, JAN, 2024 03:25:02

Middle Channel / 10MHz / QPSK



Date: 9, JAN, 2024 03:42:32

Middle Channel / 10MHz / 16QAM

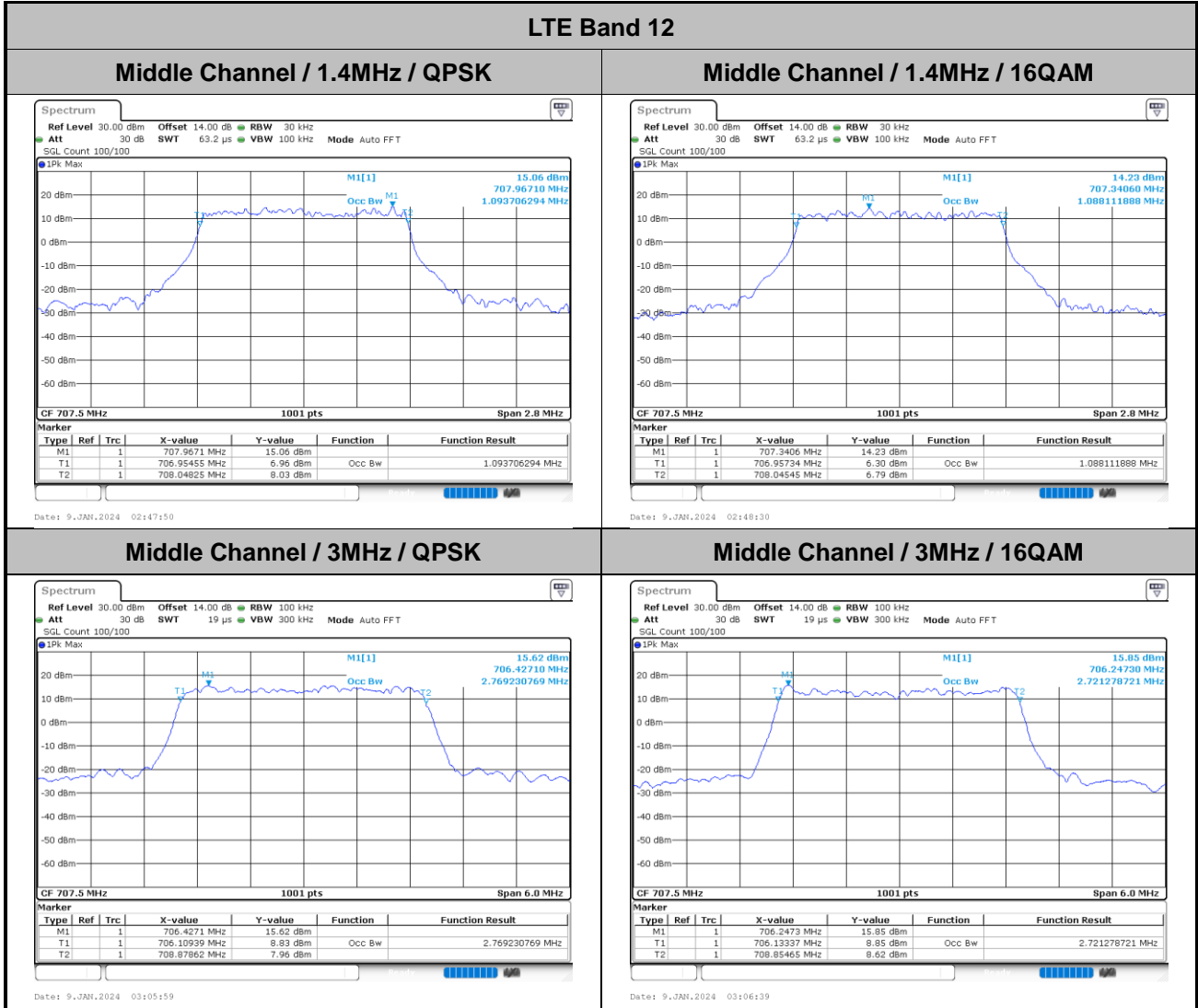


Date: 9, JAN, 2024 03:43:12



# Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.77	2.72	4.49	4.52	9.05	9.01

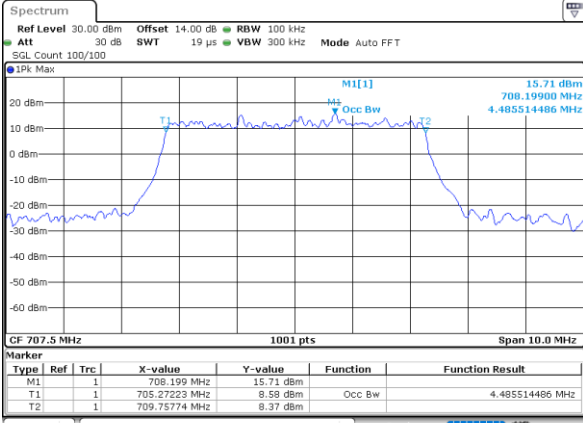






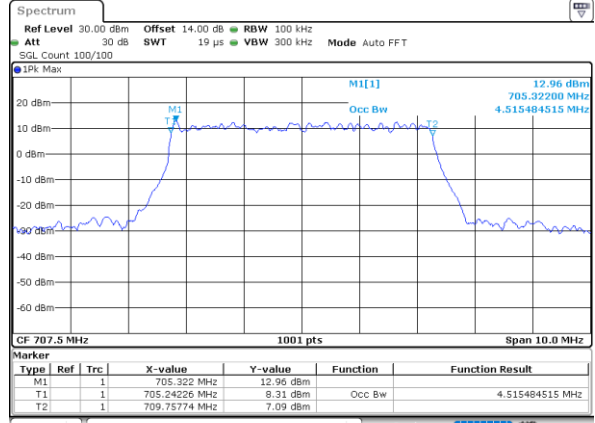
LTE Band 12

Middle Channel / 5MHz / QPSK



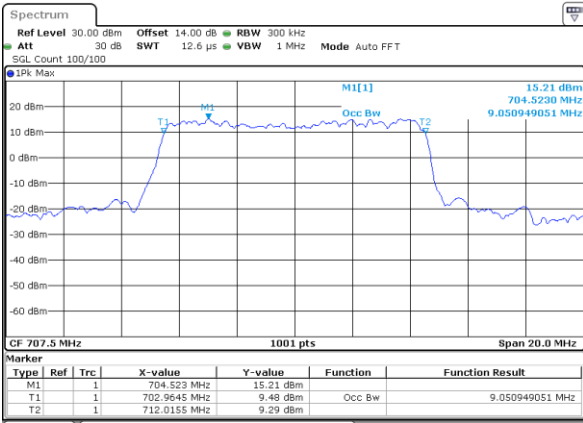
Date: 9, JAN, 2024 03:24:08

Middle Channel / 5MHz / 16QAM



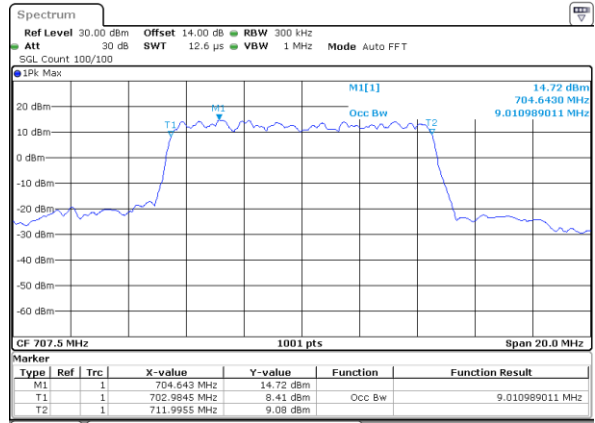
Date: 9, JAN, 2024 03:24:48

Middle Channel / 10MHz / QPSK



Date: 9, JAN, 2024 03:42:18

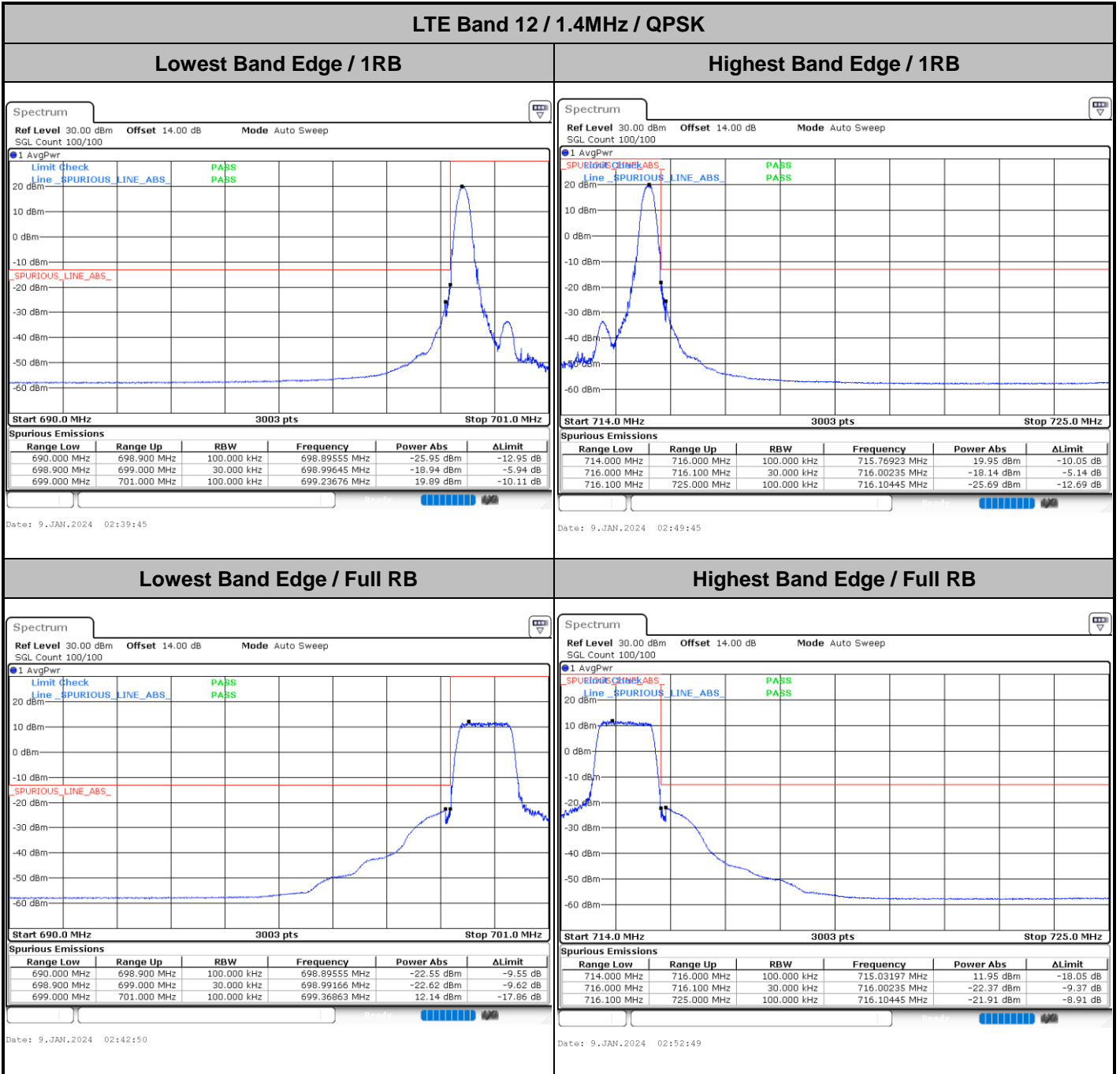
Middle Channel / 10MHz / 16QAM



Date: 9, JAN, 2024 03:42:58



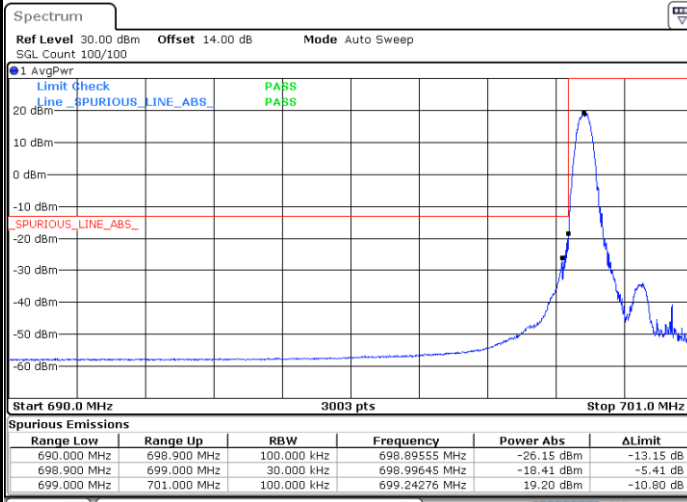
# Conducted Band Edge





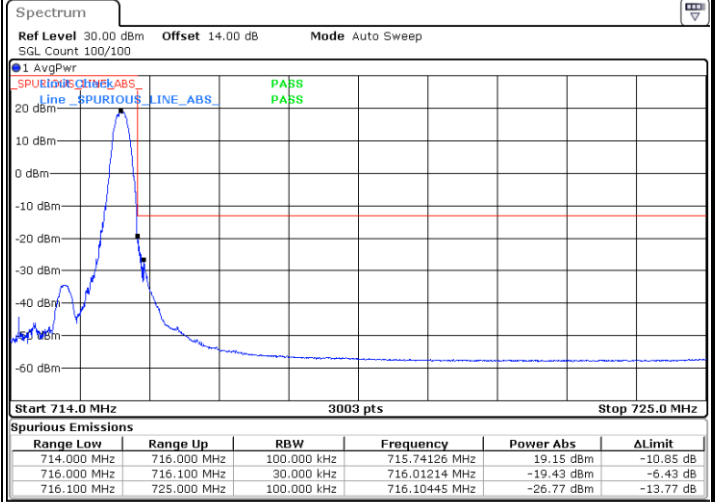
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



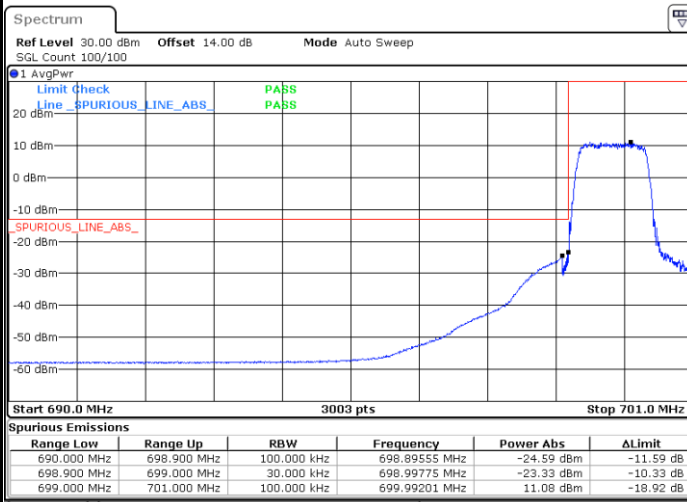
Date: 9.JAN.2024 02:40:47

Highest Band Edge / 1 RB



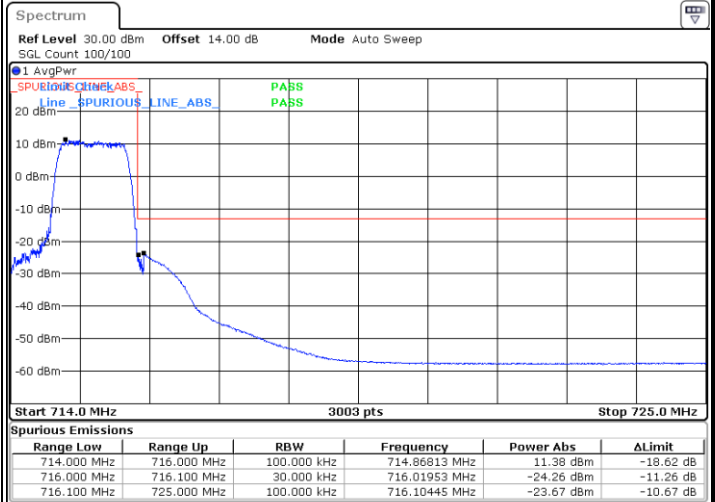
Date: 9.JAN.2024 02:50:46

Lowest Band Edge / Full RB



Date: 9.JAN.2024 02:43:51

Highest Band Edge / Full RB

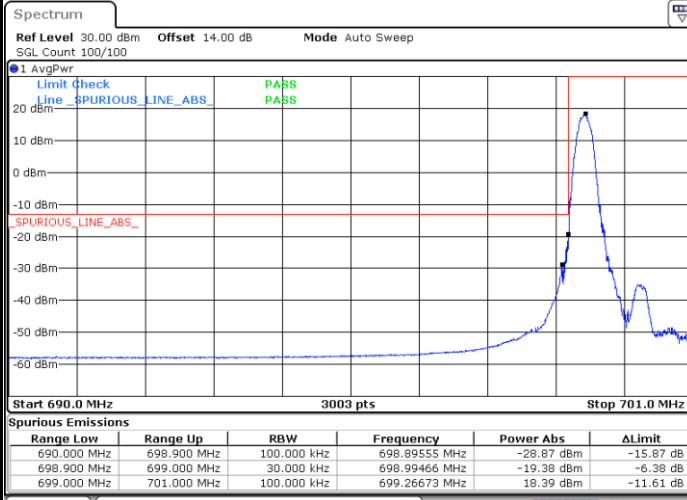


Date: 9.JAN.2024 02:53:50



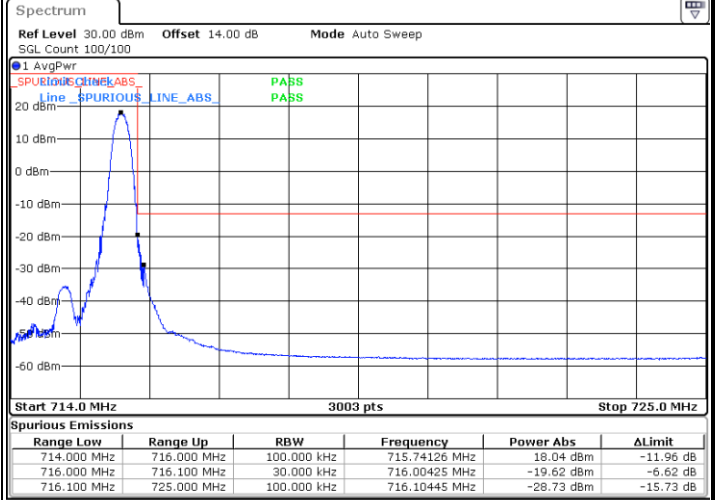
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



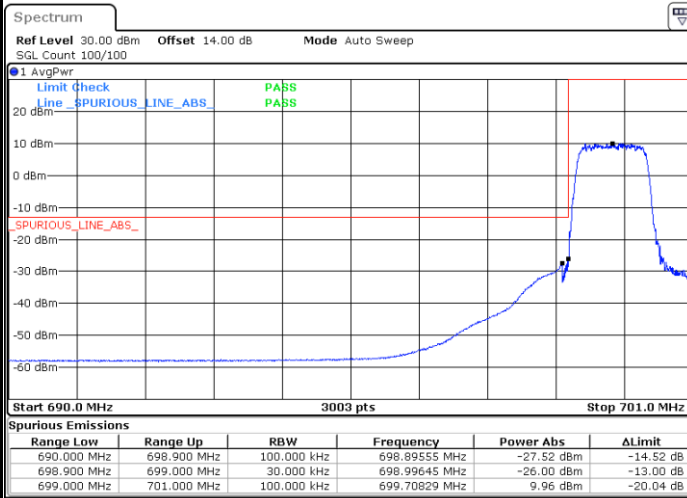
Date: 9.JAN.2024 02:41:48

Highest Band Edge / 1 RB



Date: 9.JAN.2024 02:51:47

Lowest Band Edge / Full RB



Date: 9.JAN.2024 02:44:53

Highest Band Edge / Full RB

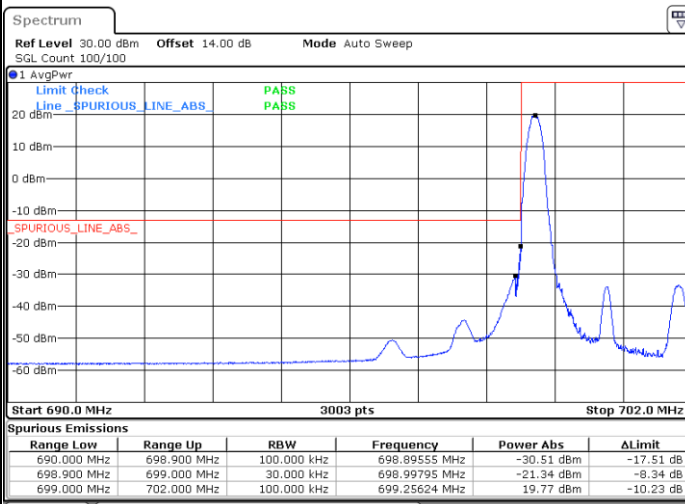


Date: 9.JAN.2024 02:54:51



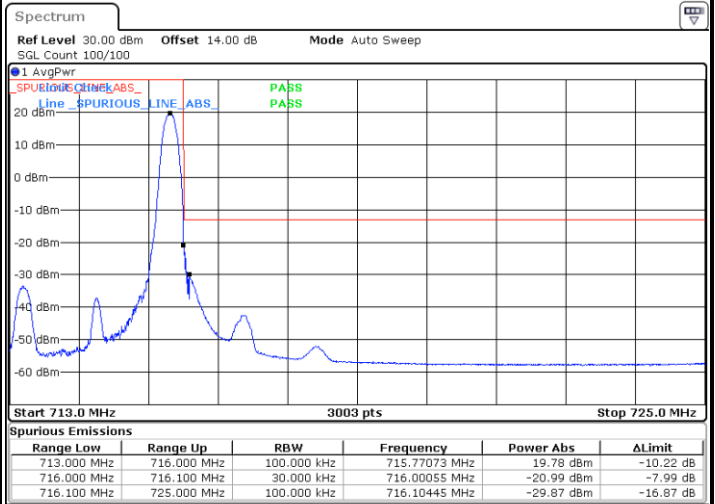
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



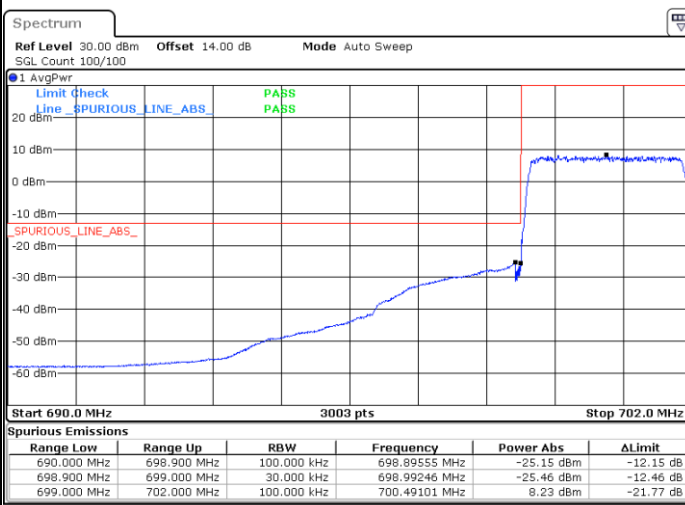
Date: 9.JAN.2024 02:57:54

Highest Band Edge / 1RB



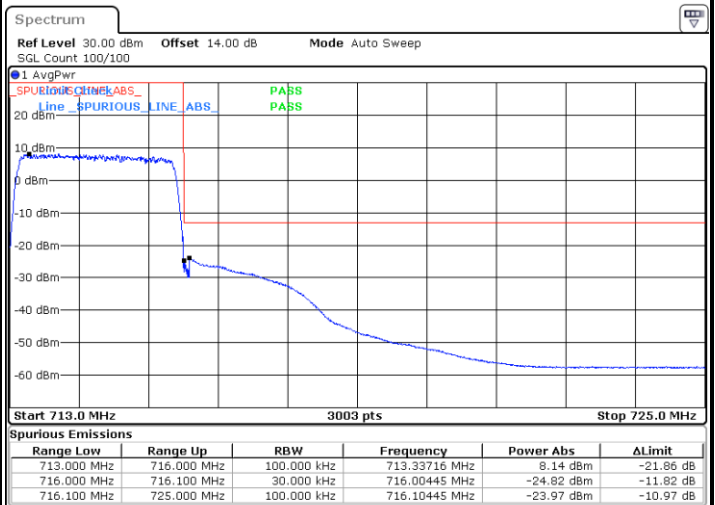
Date: 9.JAN.2024 03:07:53

Lowest Band Edge / Full RB



Date: 9.JAN.2024 03:00:58

Highest Band Edge / Full RB

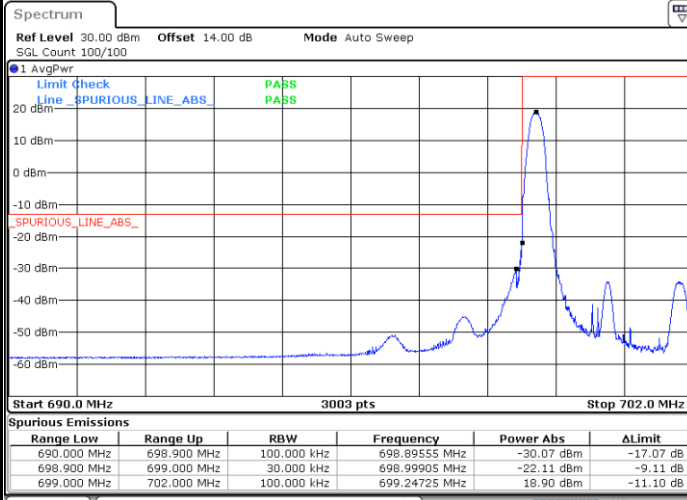


Date: 9.JAN.2024 03:10:58

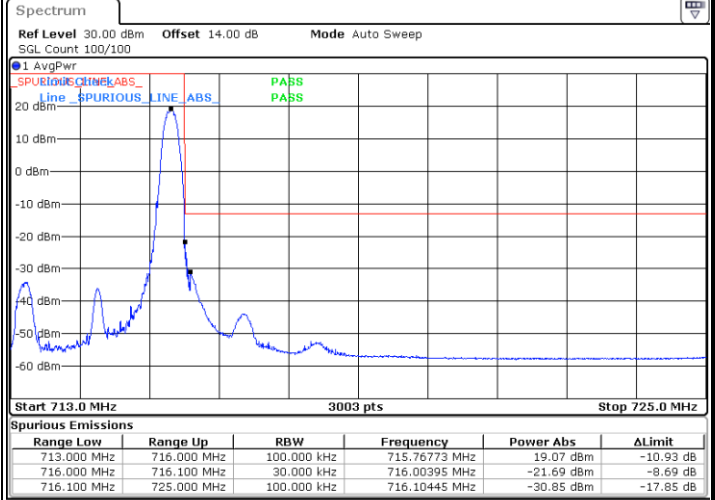


LTE Band 12 / 3MHz / 16QAM

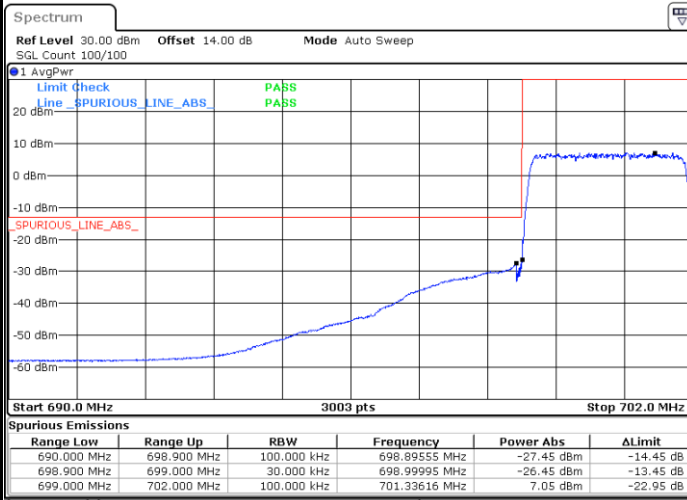
Lowest Band Edge / 1 RB



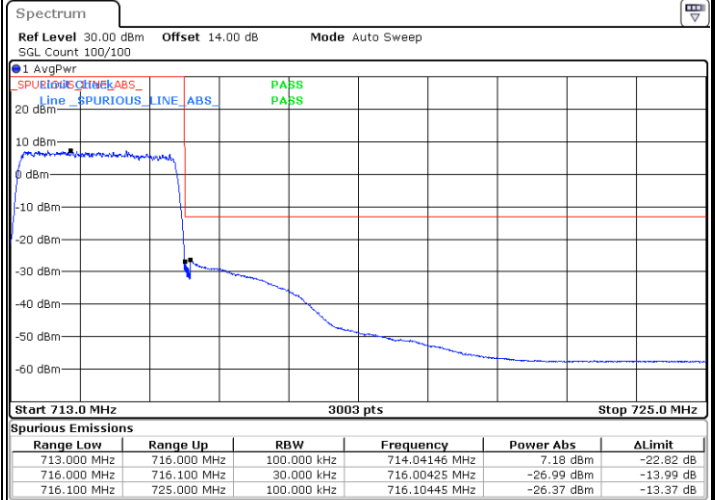
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



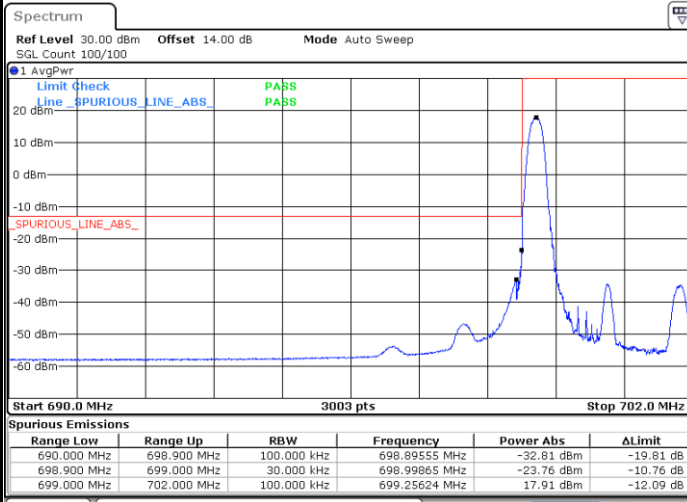
Highest Band Edge / Full RB





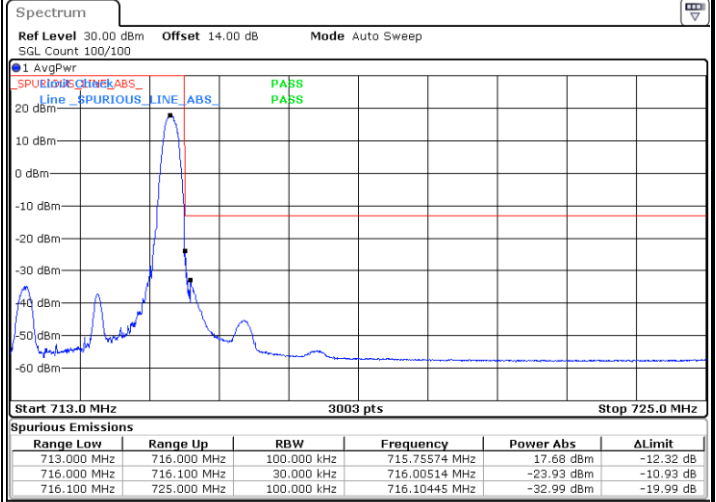
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



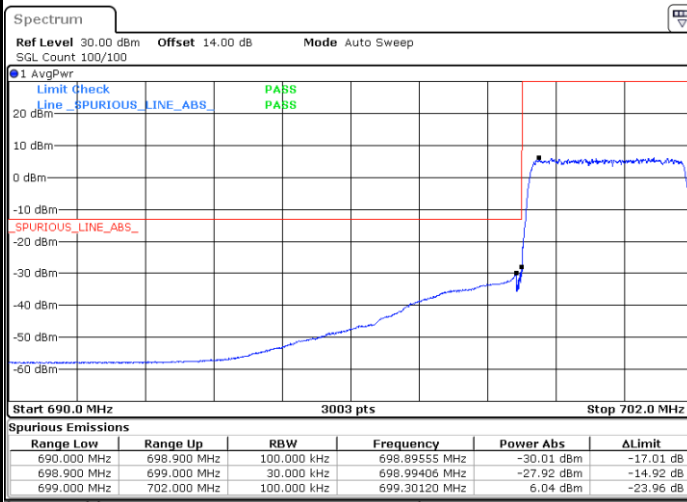
Date: 9. JAN. 2024 02:59:57

Highest Band Edge / 1 RB



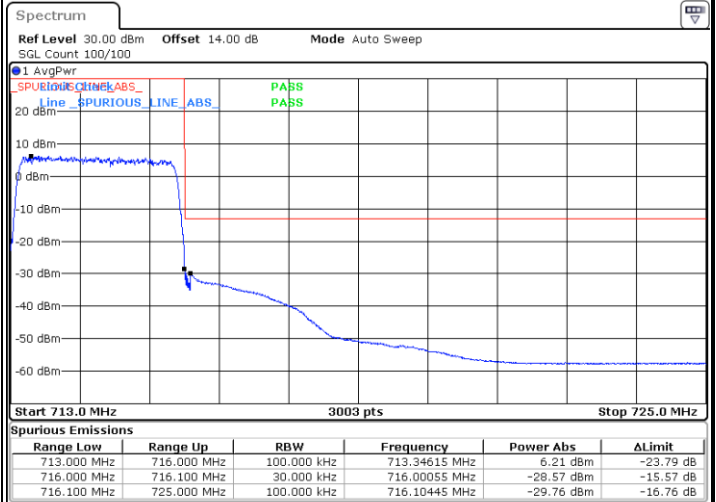
Date: 9. JAN. 2024 03:09:56

Lowest Band Edge / Full RB



Date: 9. JAN. 2024 03:03:01

Highest Band Edge / Full RB

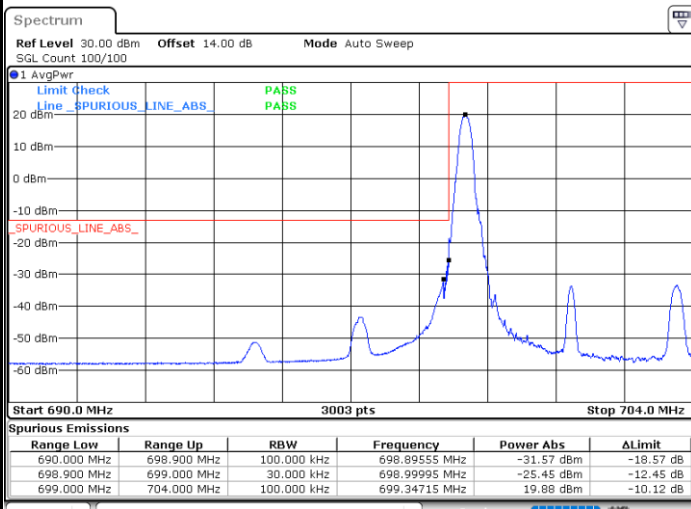


Date: 9. JAN. 2024 03:13:01



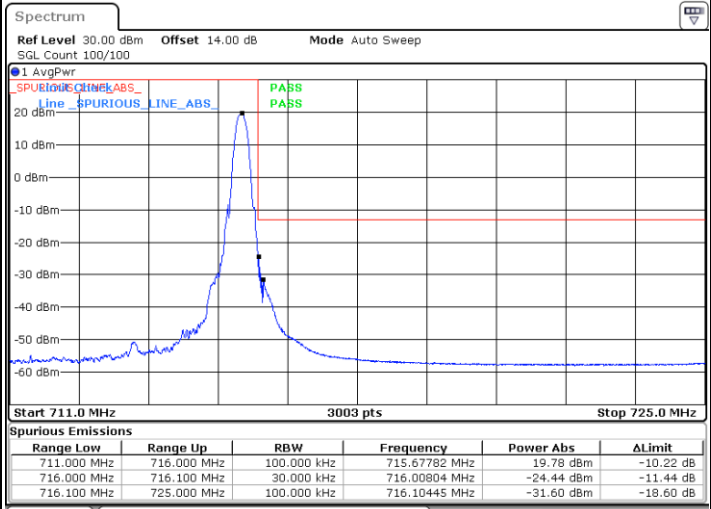
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



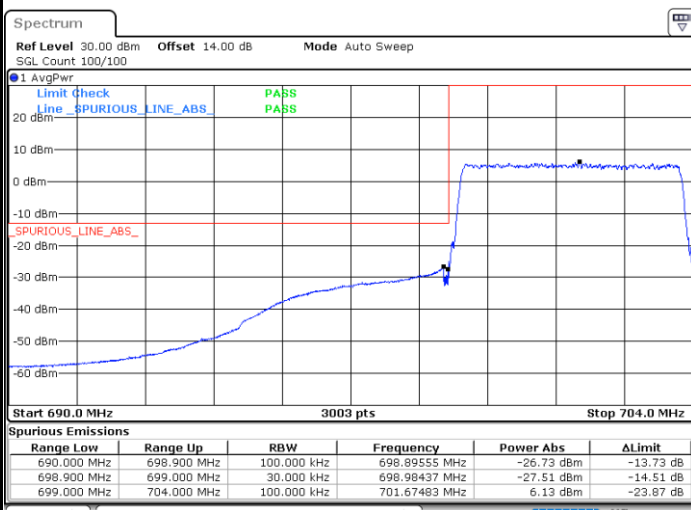
Date: 9.JAN.2024 03:16:03

Highest Band Edge / 1RB



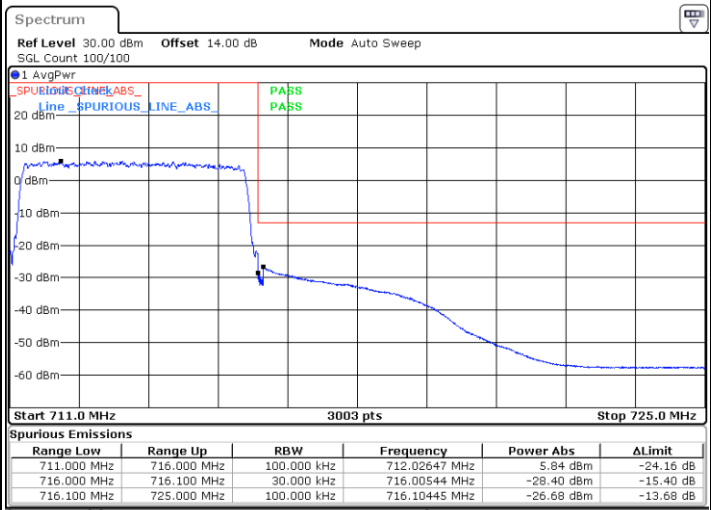
Date: 9.JAN.2024 03:26:02

Lowest Band Edge / Full RB



Date: 9.JAN.2024 03:19:08

Highest Band Edge / Full RB



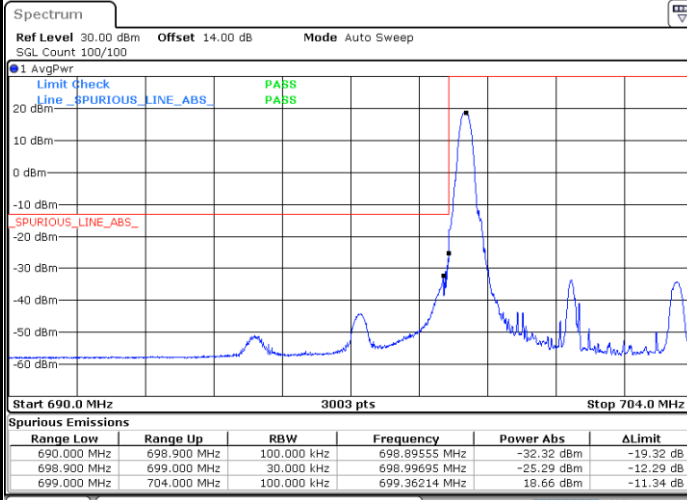
Date: 9.JAN.2024 03:29:07





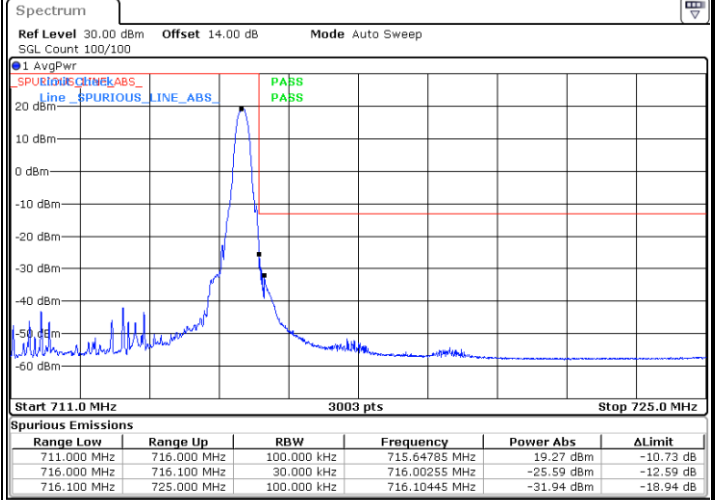
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



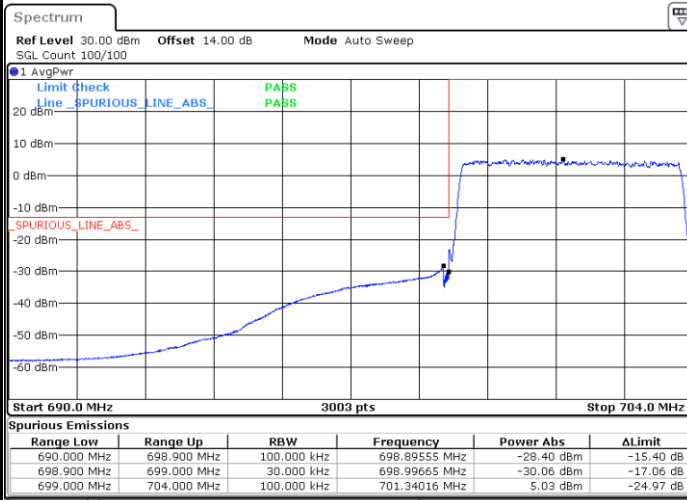
Date: 9.JAN.2024 03:17:04

Highest Band Edge / 1 RB



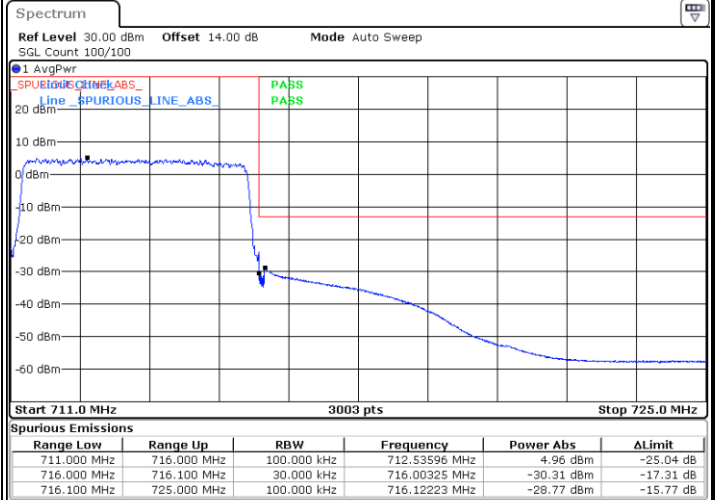
Date: 9.JAN.2024 03:27:04

Lowest Band Edge / Full RB



Date: 9.JAN.2024 03:20:09

Highest Band Edge / Full RB

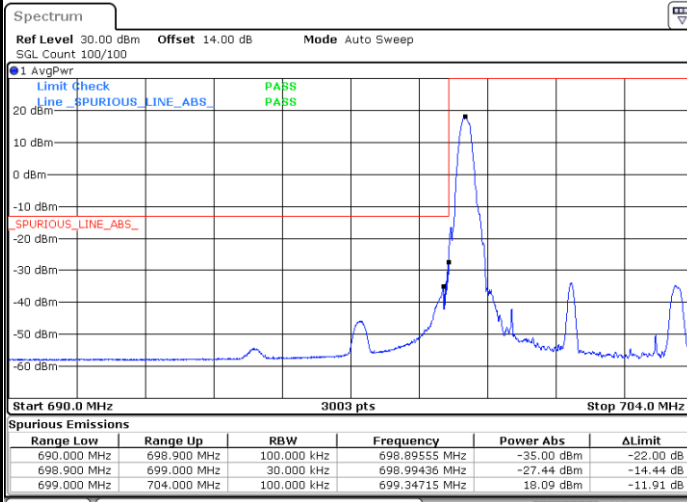


Date: 9.JAN.2024 03:30:08



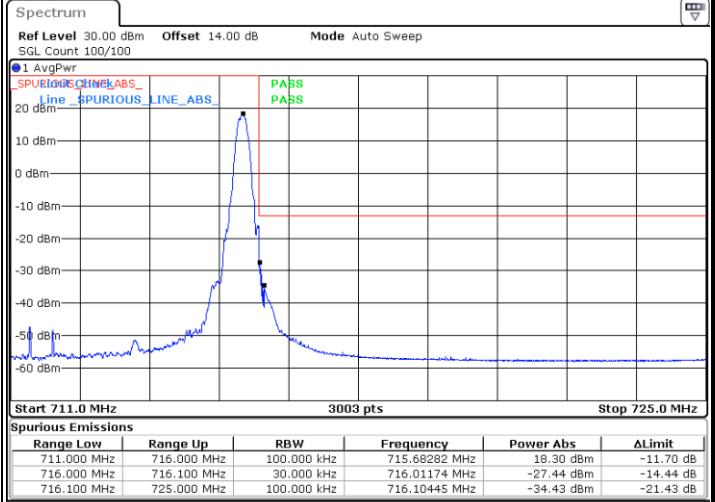
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



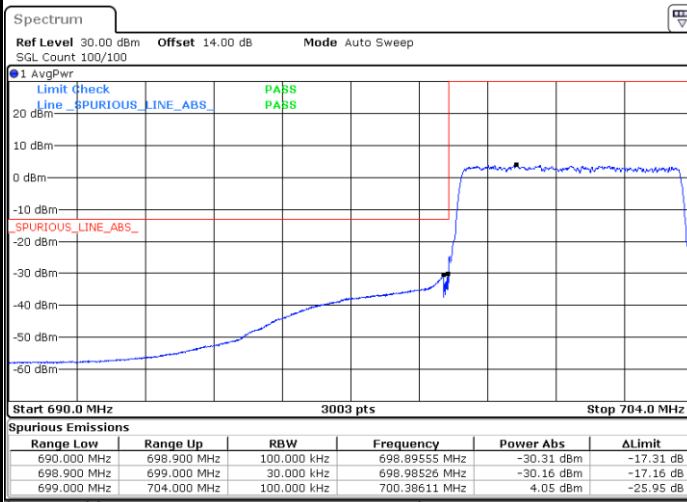
Date: 9.JAN.2024 03:18:06

Highest Band Edge / 1 RB



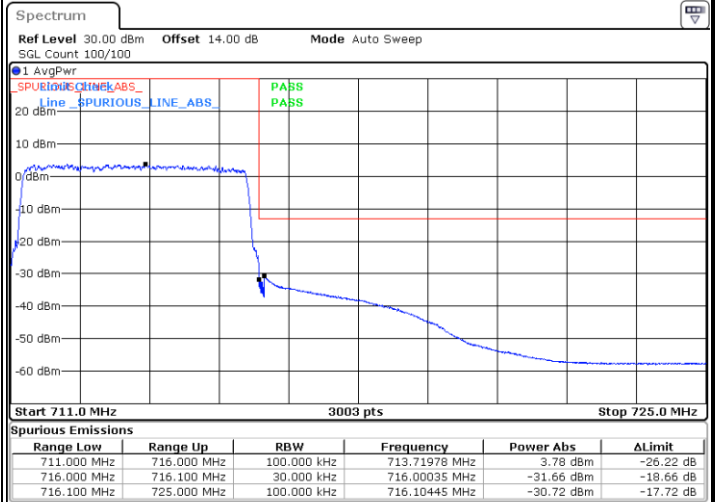
Date: 9.JAN.2024 03:28:05

Lowest Band Edge / Full RB



Date: 9.JAN.2024 03:21:11

Highest Band Edge / Full RB

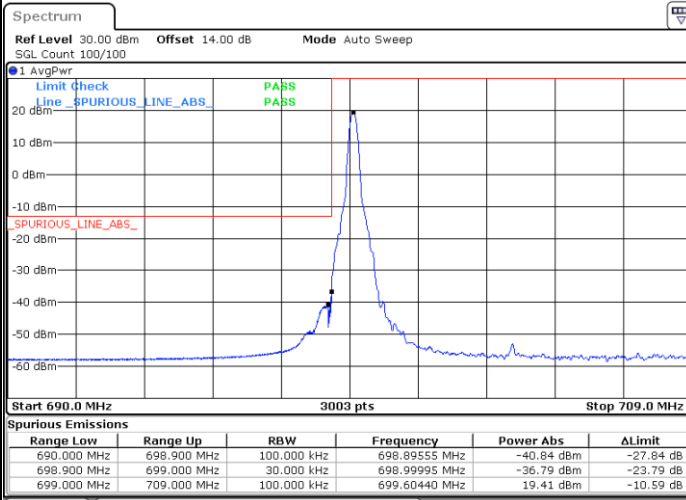


Date: 9.JAN.2024 03:31:10



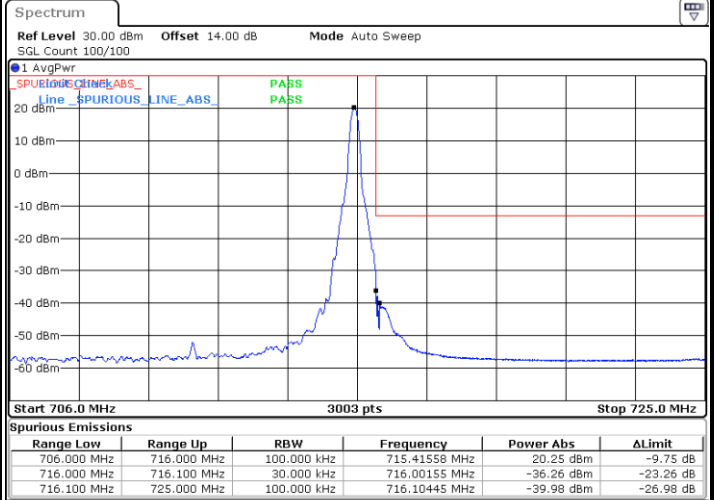
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



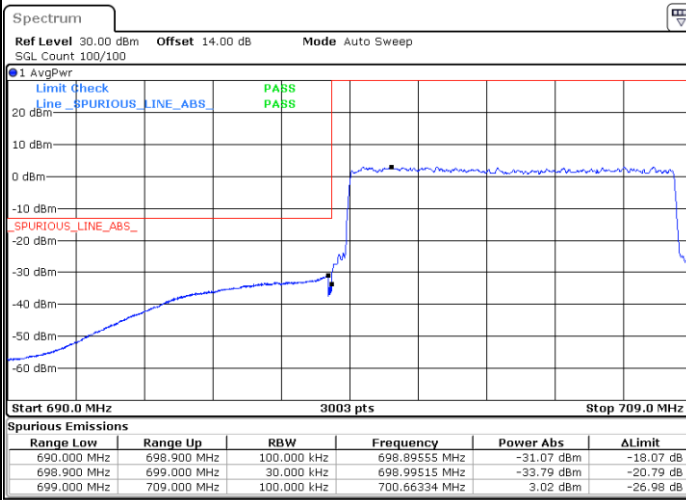
Date: 9.JAN.2024 03:34:12

Highest Band Edge / 1RB



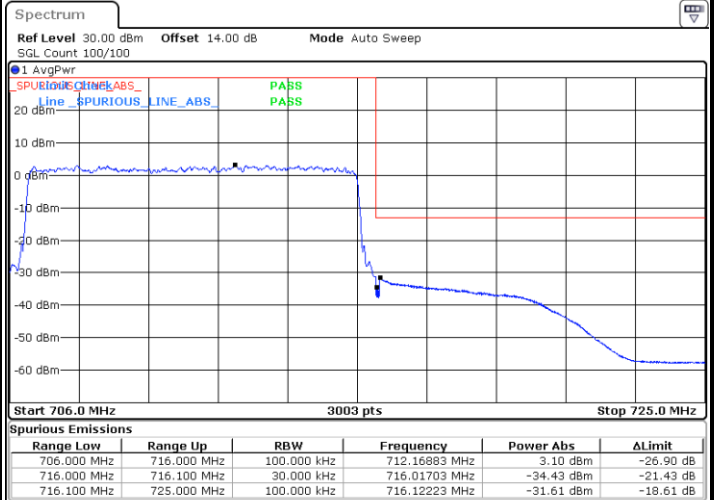
Date: 9.JAN.2024 03:44:12

Lowest Band Edge / Full RB



Date: 9.JAN.2024 03:37:17

Highest Band Edge / Full RB

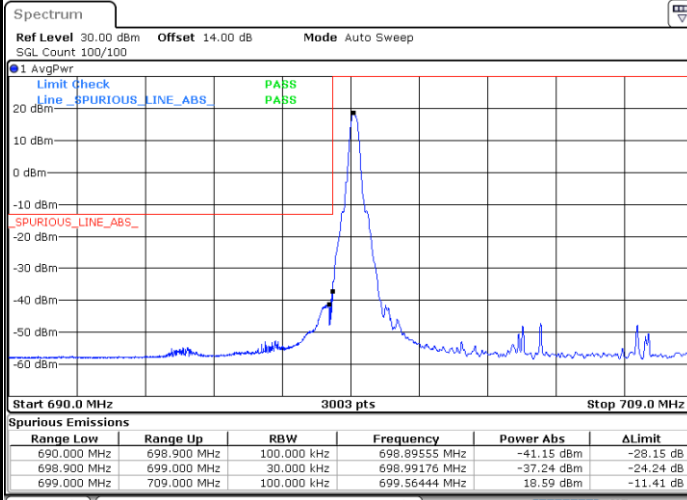


Date: 9.JAN.2024 03:47:16



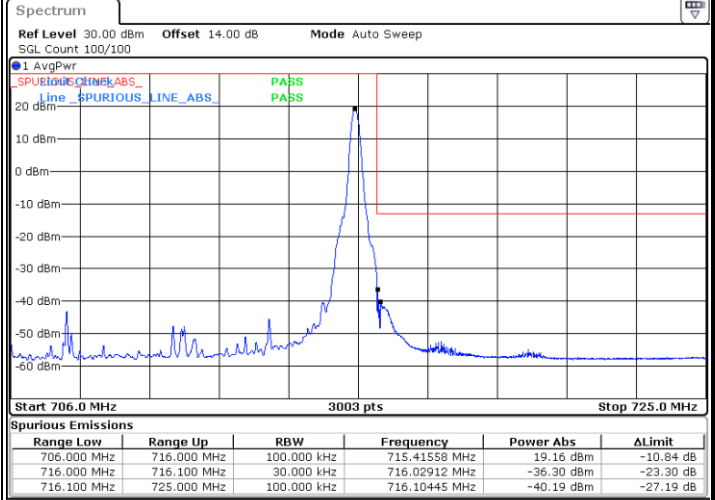
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



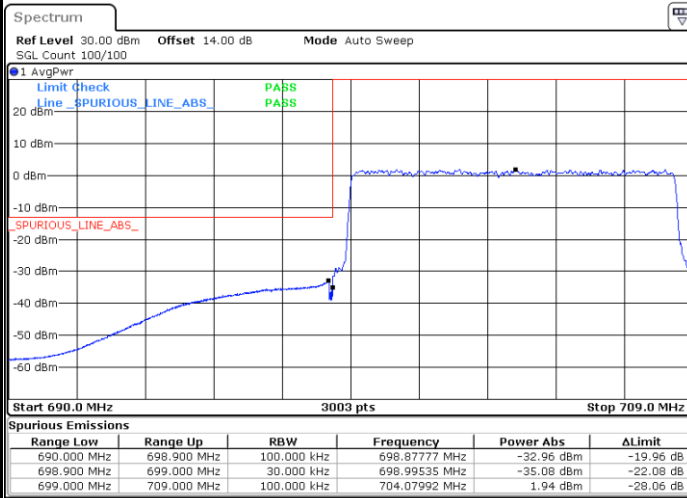
Date: 9. JAN. 2024 03:35:14

Highest Band Edge / 1 RB



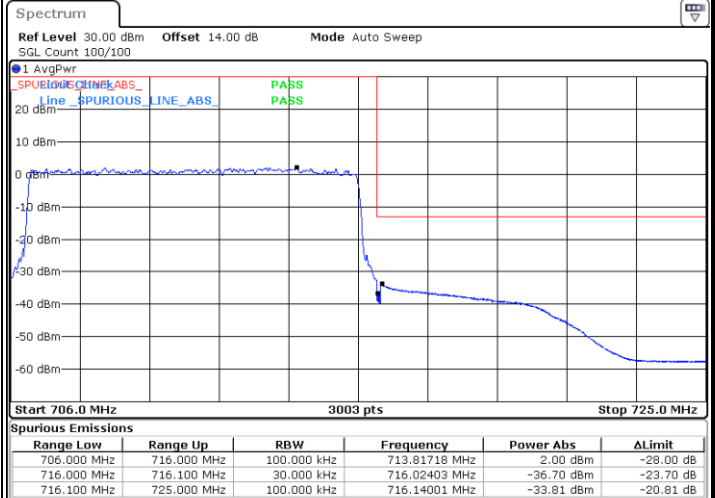
Date: 9. JAN. 2024 03:45:13

Lowest Band Edge / Full RB



Date: 9. JAN. 2024 03:38:19

Highest Band Edge / Full RB

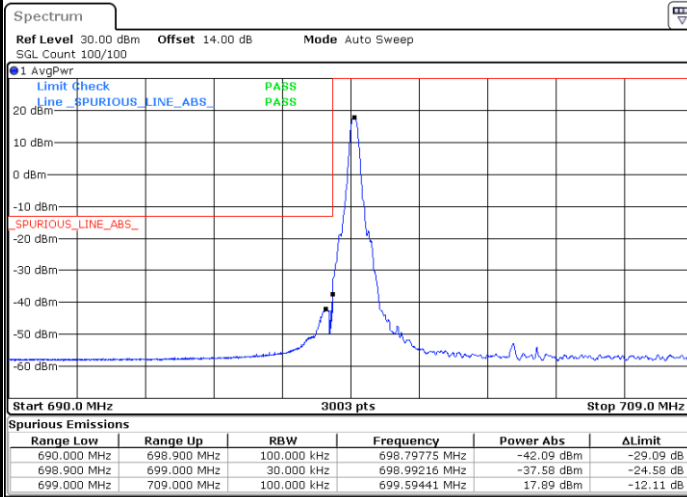


Date: 9. JAN. 2024 03:48:17



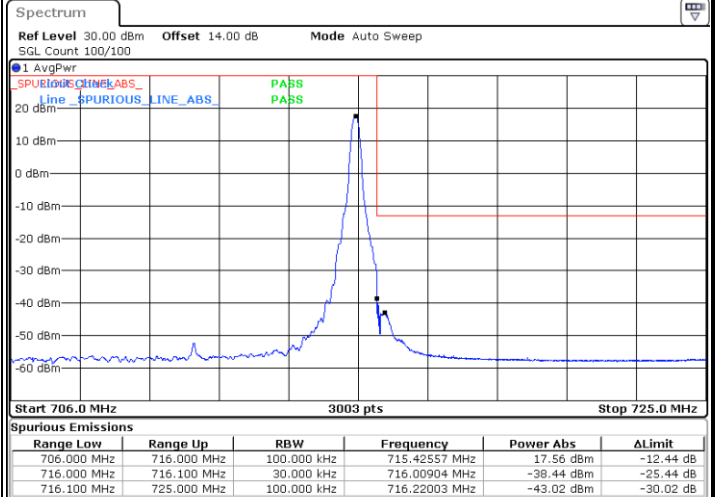
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



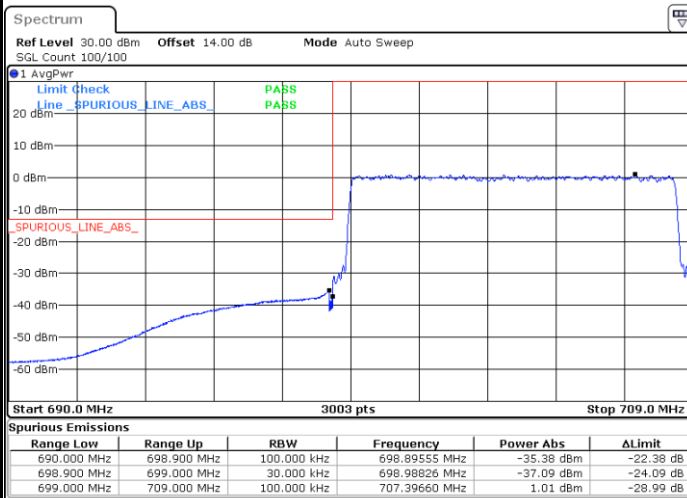
Date: 9.JAN.2024 03:36:15

Highest Band Edge / 1 RB



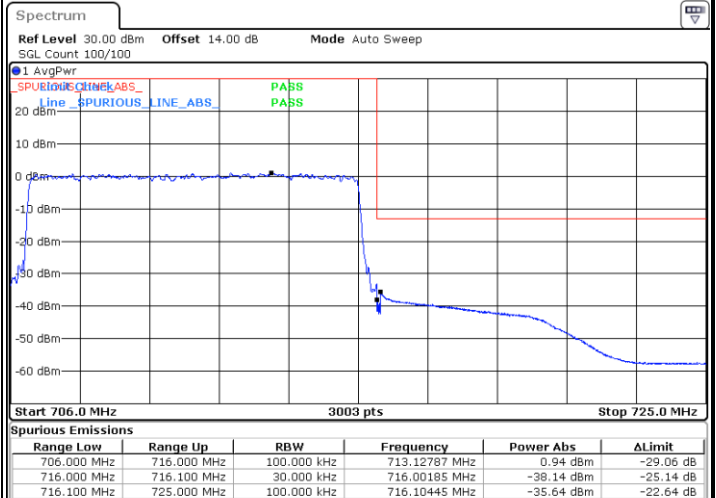
Date: 9.JAN.2024 03:46:15

Lowest Band Edge / Full RB



Date: 9.JAN.2024 03:39:20

Highest Band Edge / Full RB



Date: 9.JAN.2024 03:49:18



# Conducted Spurious Emission

