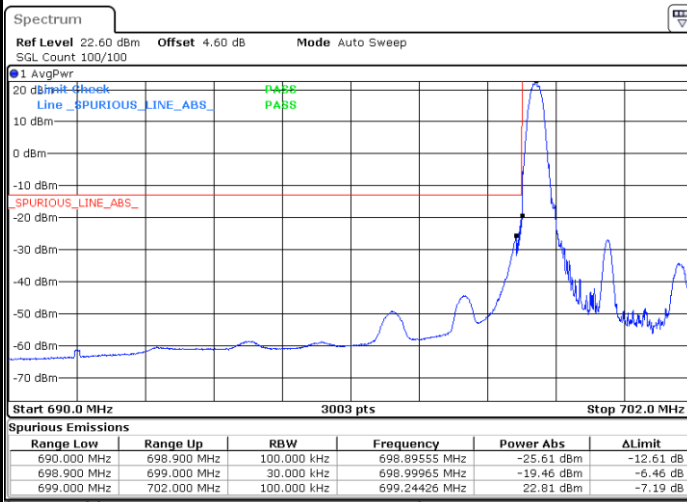




LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



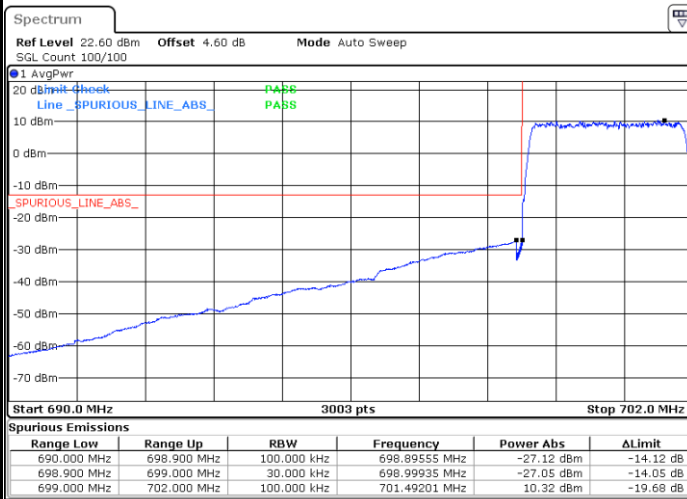
Date: 1.JAN.2021 20:55:49

Highest Band Edge / 1 RB



Date: 1.JAN.2021 20:59:11

Lowest Band Edge / Full RB



Date: 1.JAN.2021 20:56:56

Highest Band Edge / Full RB

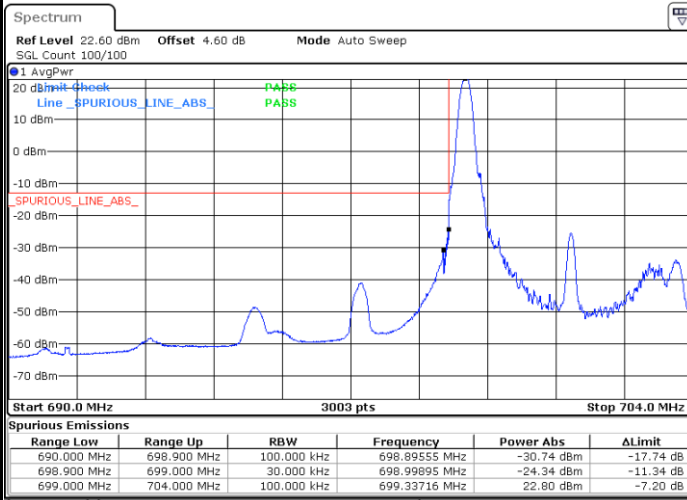


Date: 1.JAN.2021 20:58:04



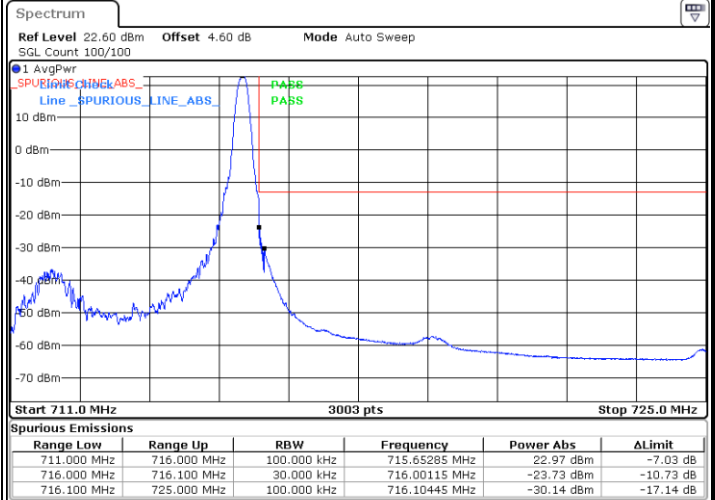
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



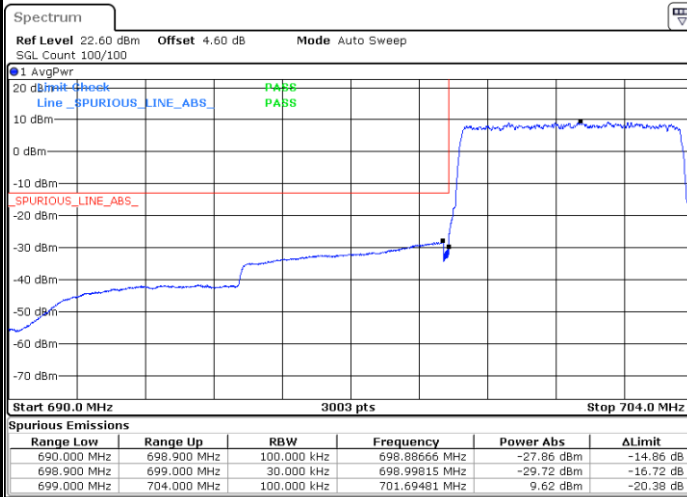
Date: 1.JAN.2021 20:34:25

Highest Band Edge / 1 RB



Date: 1.JAN.2021 20:40:03

Lowest Band Edge / Full RB



Date: 1.JAN.2021 20:35:33

Highest Band Edge / Full RB

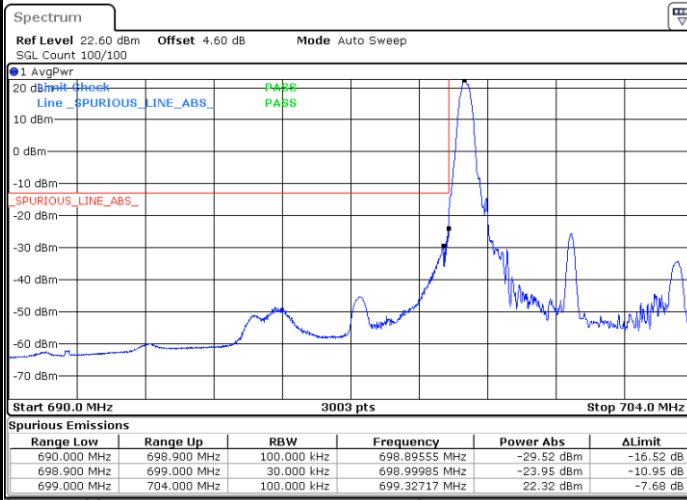


Date: 1.JAN.2021 20:38:56



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



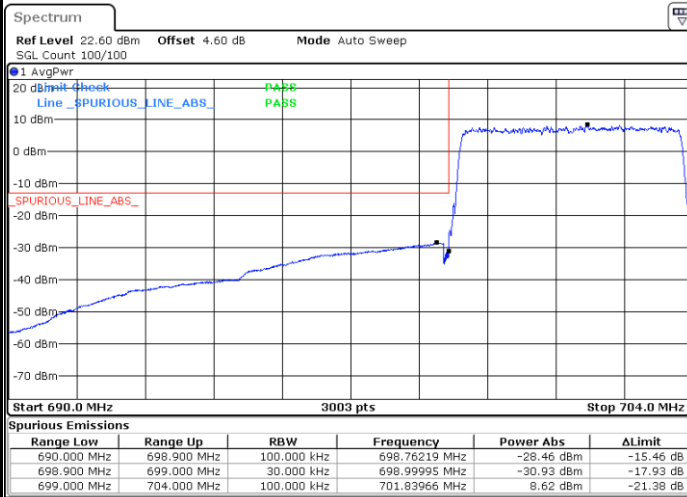
Date: 1.JAN.2021 20:33:18

Highest Band Edge / 1 RB



Date: 1.JAN.2021 20:41:11

Lowest Band Edge / Full RB



Date: 1.JAN.2021 20:36:40

Highest Band Edge / Full RB

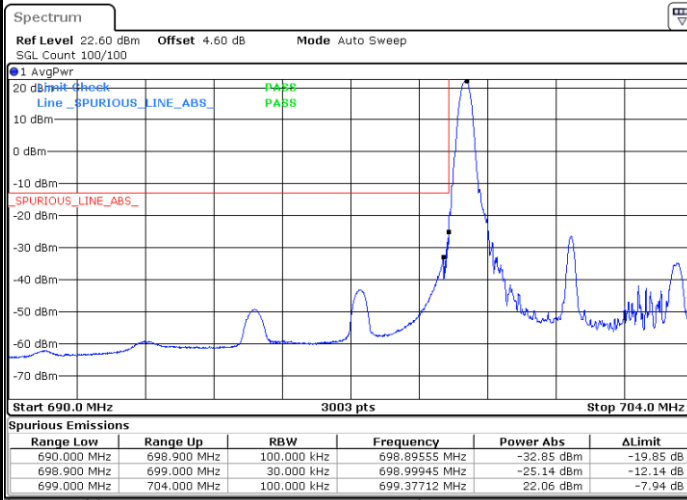


Date: 1.JAN.2021 20:37:48

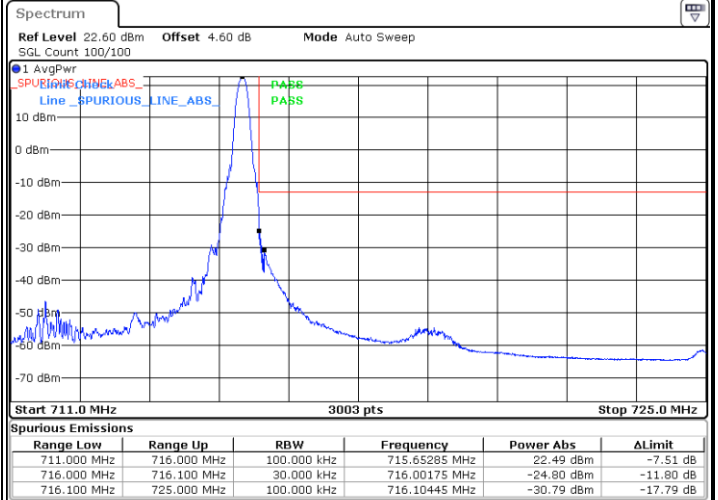


LTE Band 12 / 5MHz / 64QAM

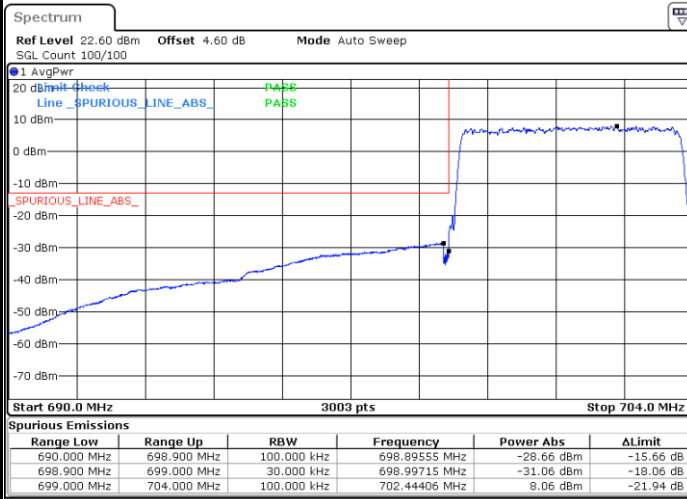
Lowest Band Edge / 1RB



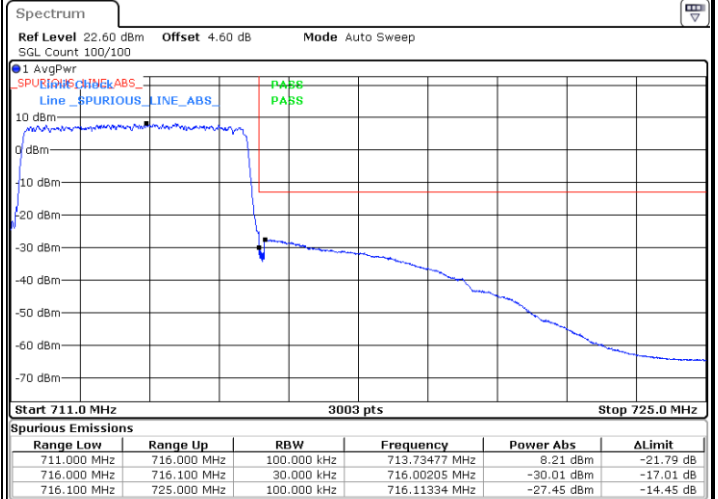
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



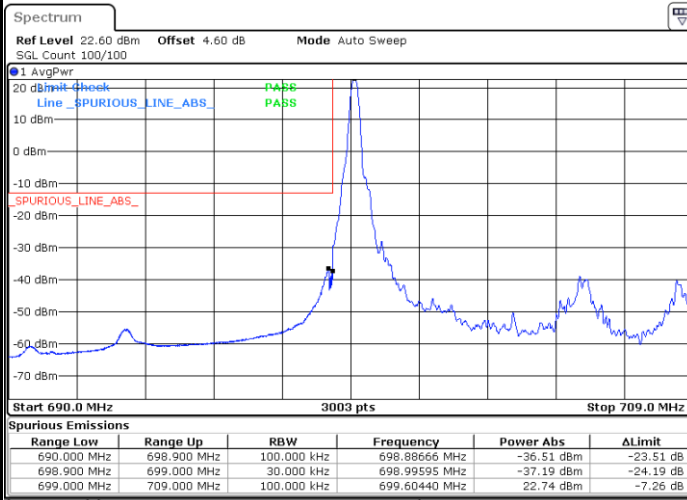
Highest Band Edge / Full RB





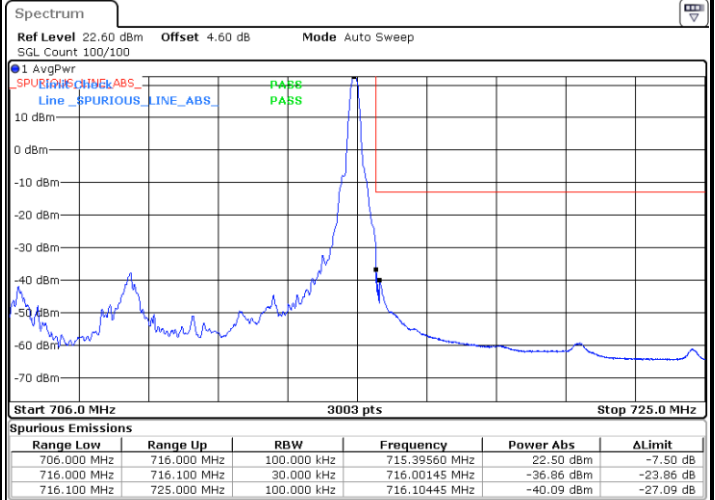
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



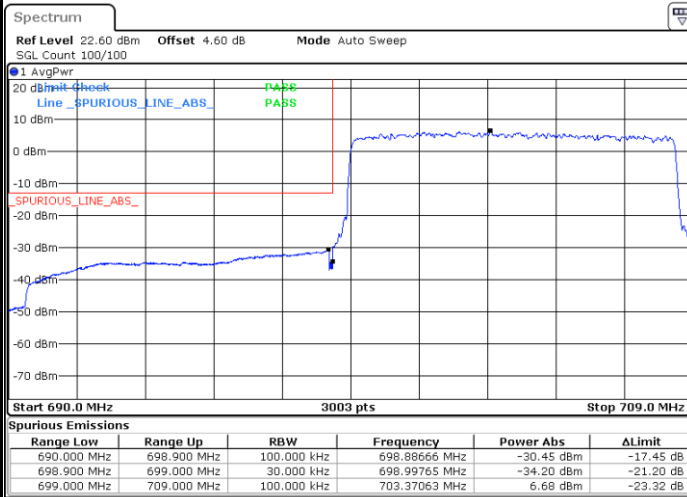
Date: 1.JAN.2021 20:43:26

Highest Band Edge / 1 RB



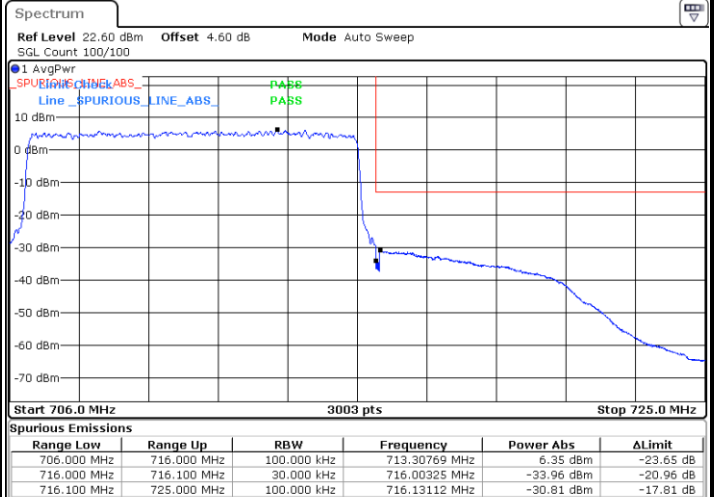
Date: 1.JAN.2021 20:49:03

Lowest Band Edge / Full RB



Date: 1.JAN.2021 20:44:33

Highest Band Edge / Full RB

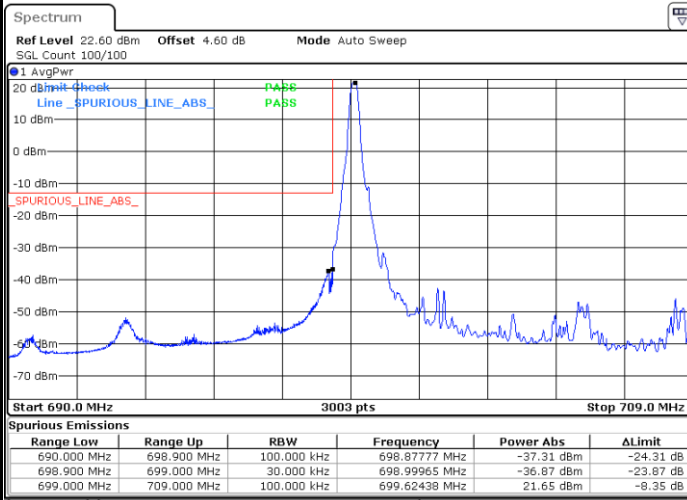


Date: 1.JAN.2021 20:47:56



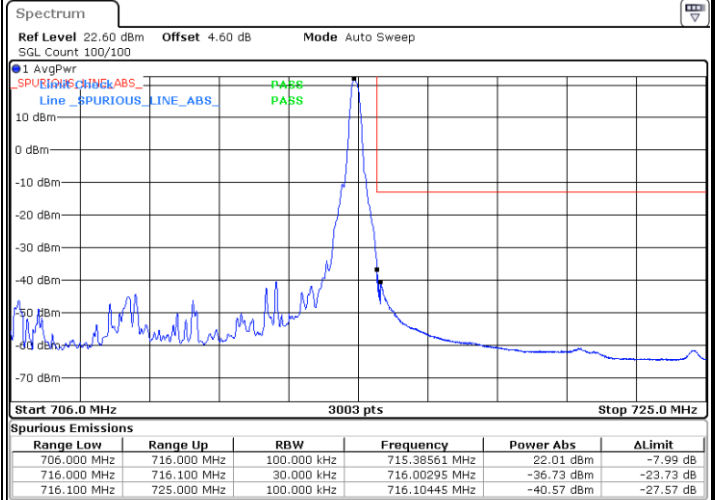
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



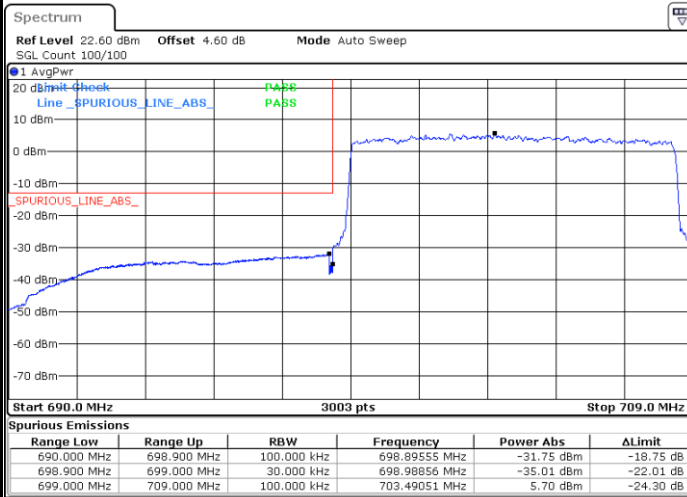
Date: 1.JAN.2021 20:42:18

Highest Band Edge / 1 RB



Date: 1.JAN.2021 20:50:11

Lowest Band Edge / Full RB



Date: 1.JAN.2021 20:45:41

Highest Band Edge / Full RB

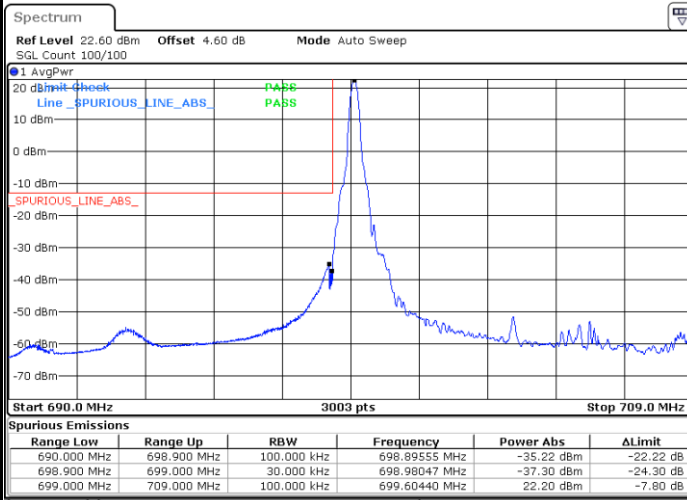


Date: 1.JAN.2021 20:46:48



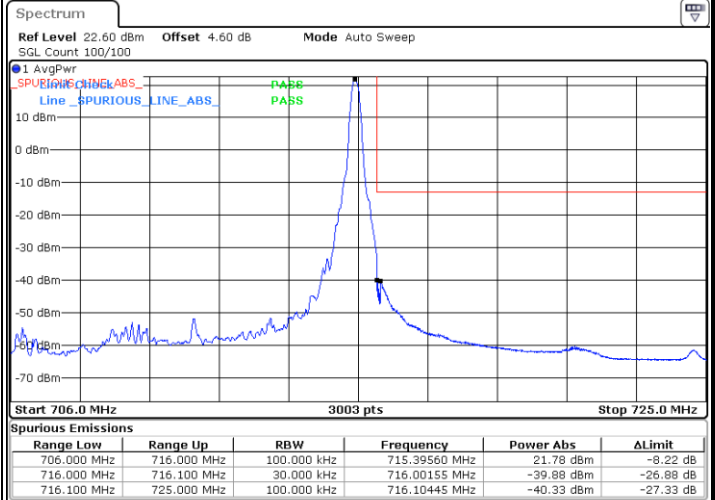
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



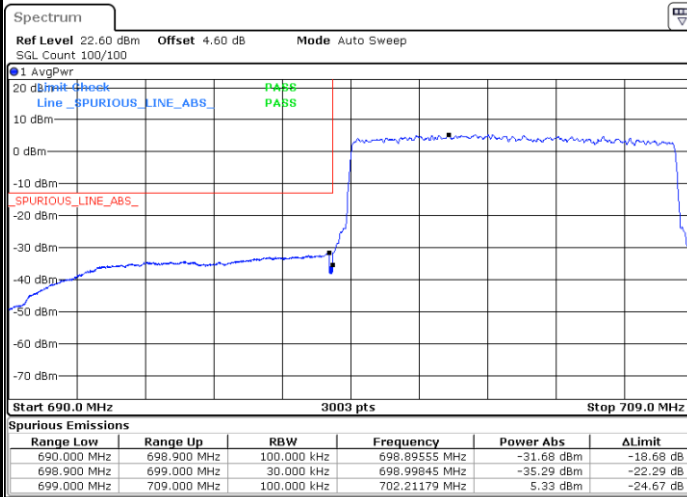
Date: 1.JAN.2021 21:07:04

Highest Band Edge / 1 RB



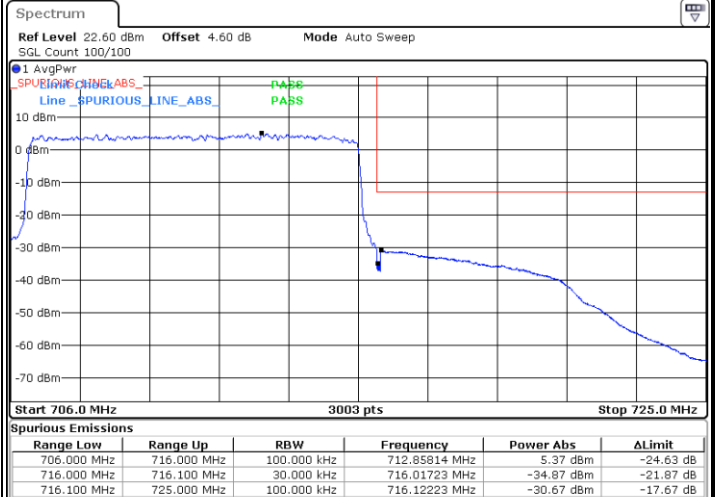
Date: 1.JAN.2021 21:05:56

Lowest Band Edge / Full RB



Date: 1.JAN.2021 21:08:11

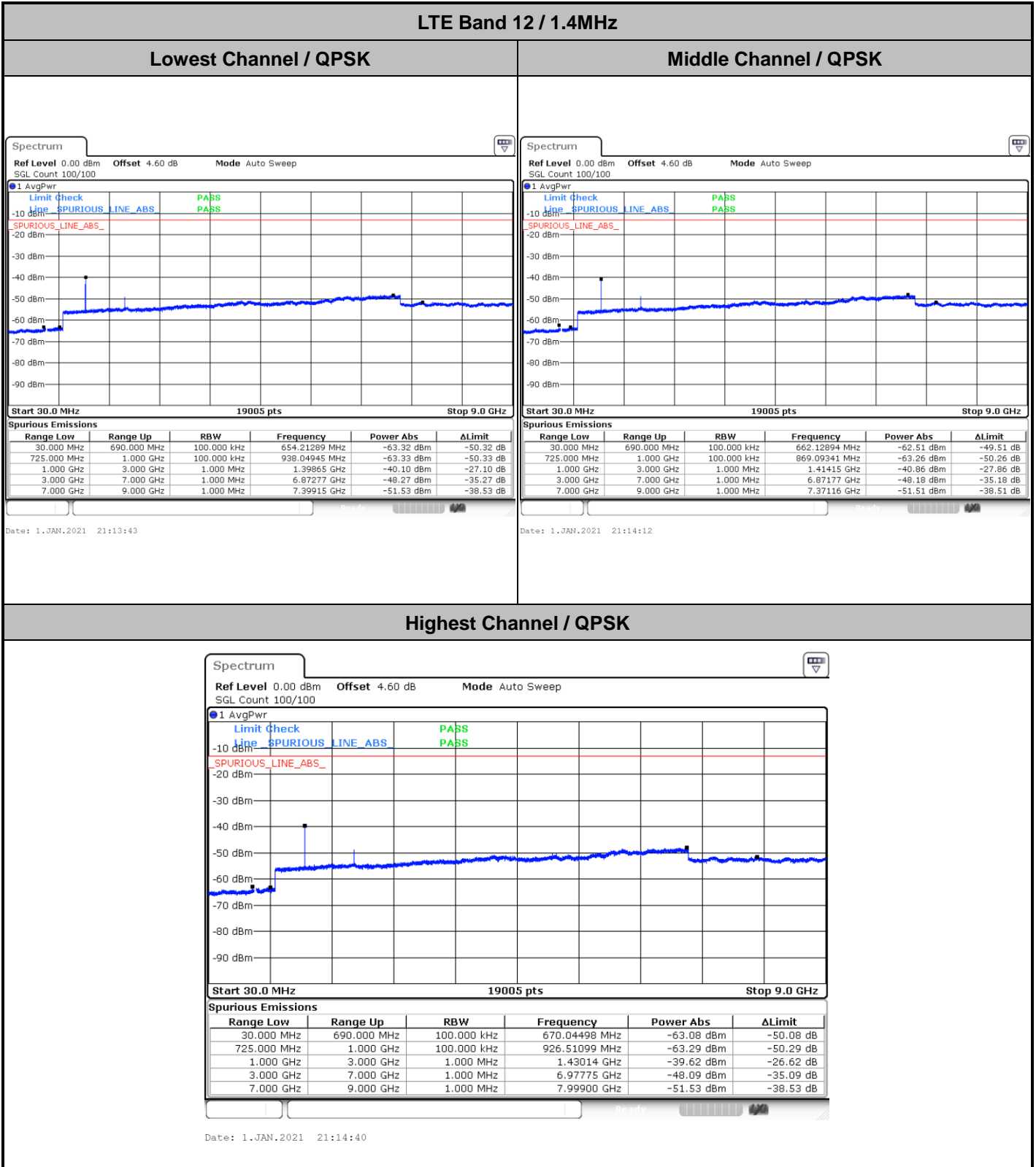
Highest Band Edge / Full RB



Date: 1.JAN.2021 21:04:49



# Conducted Spurious Emission

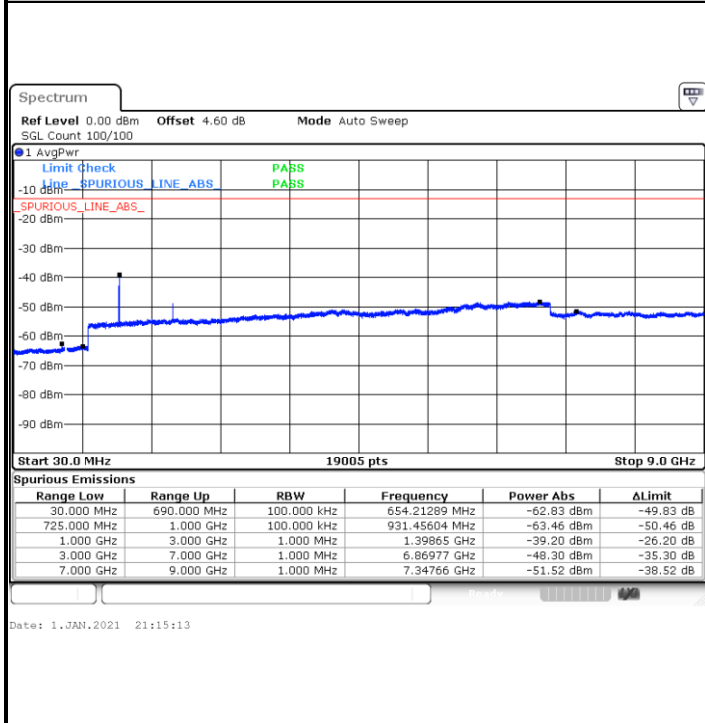




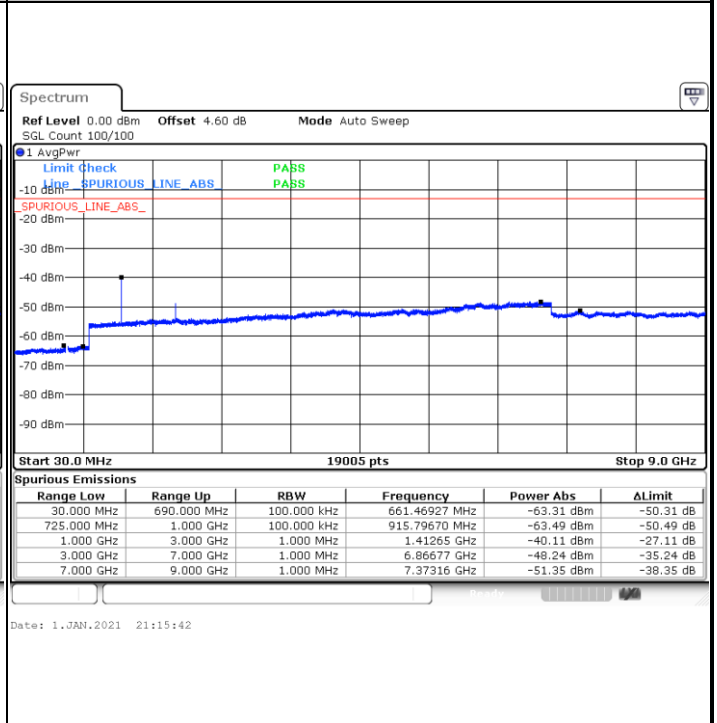


**LTE Band 12 / 3MHz**

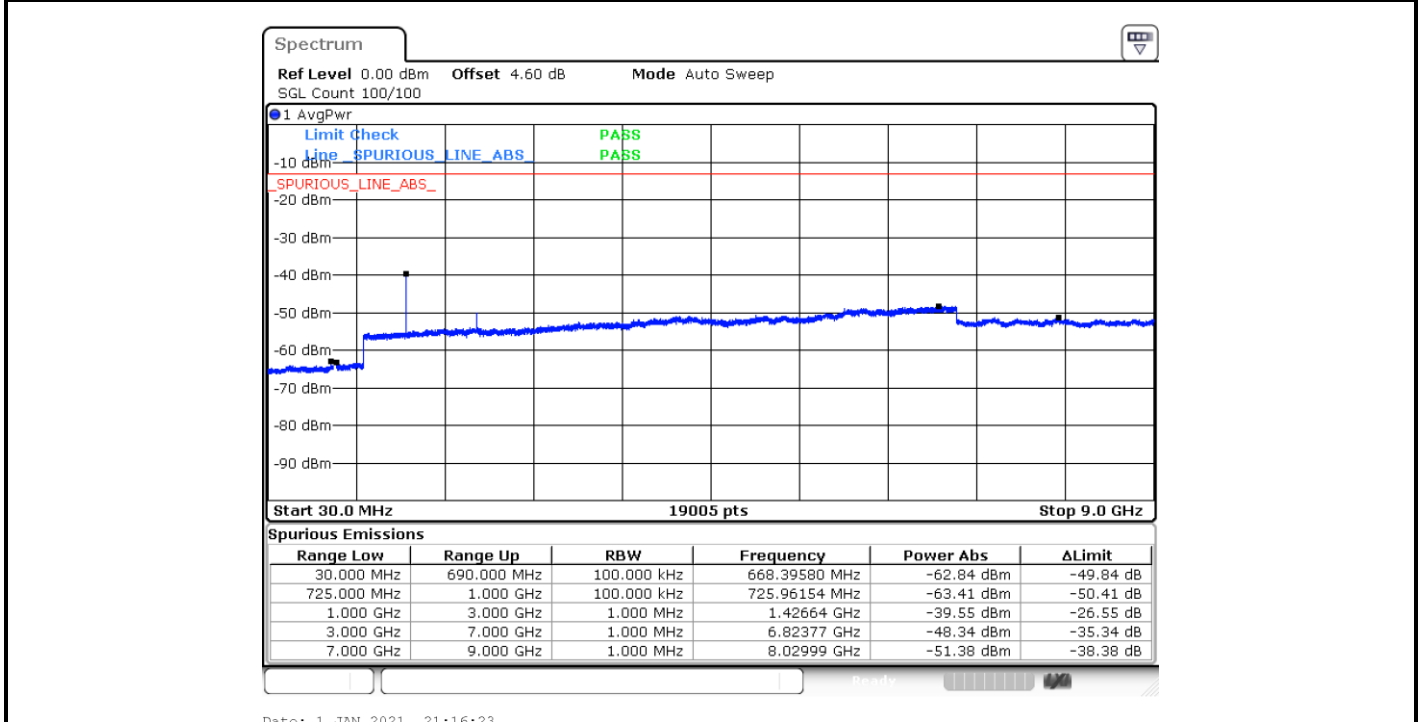
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

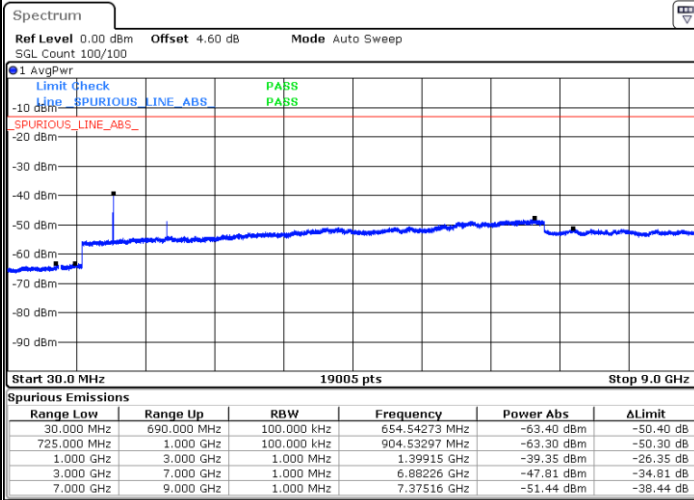




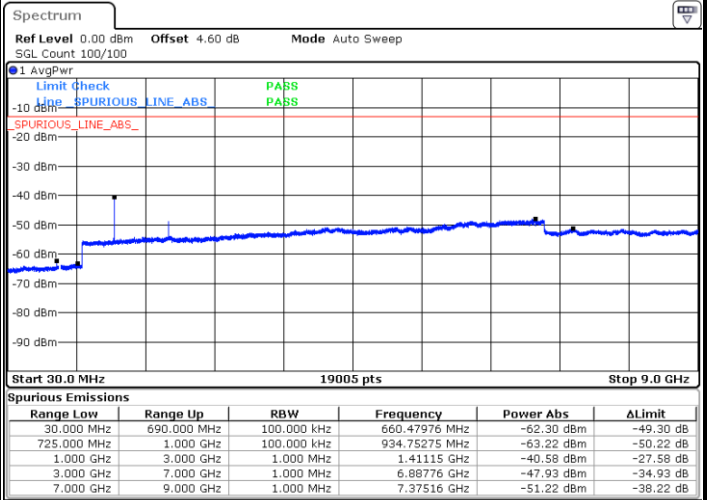
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

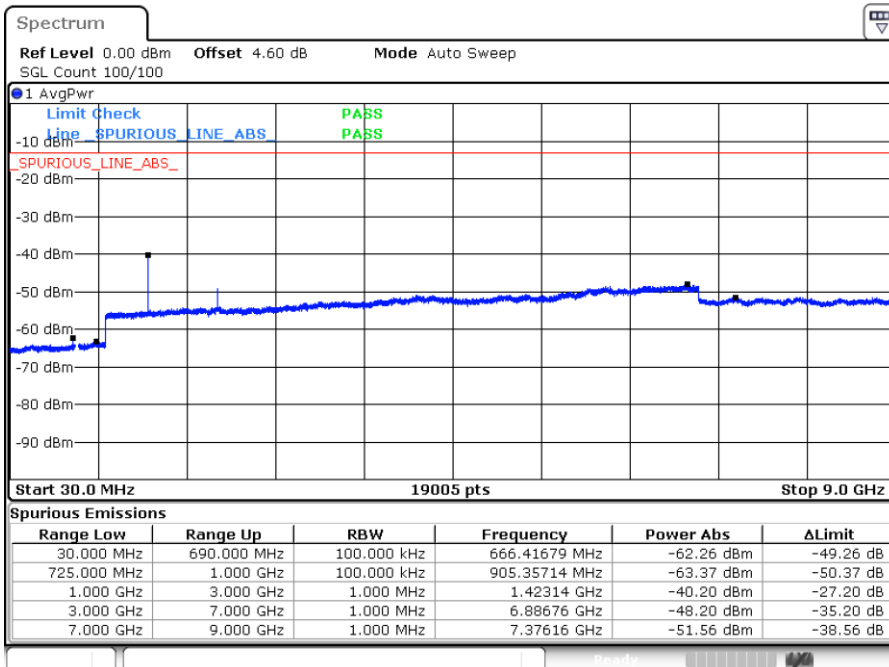


Date: 1.JAN.2021 21:16:56



Date: 1.JAN.2021 21:17:23

Highest Channel / QPSK



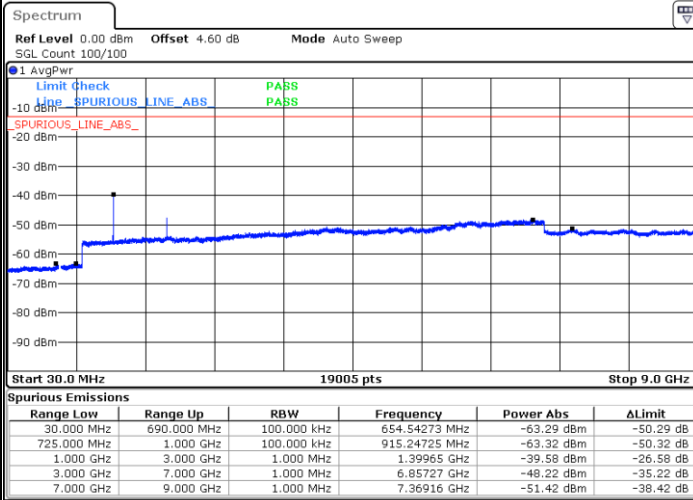
Date: 1.JAN.2021 21:17:51



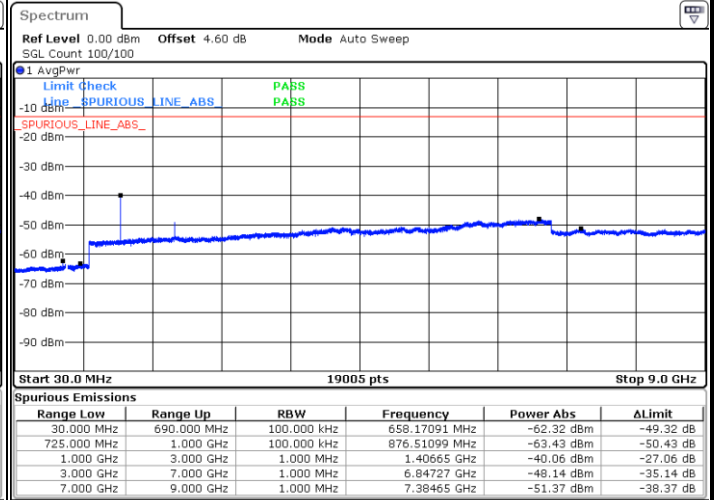
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

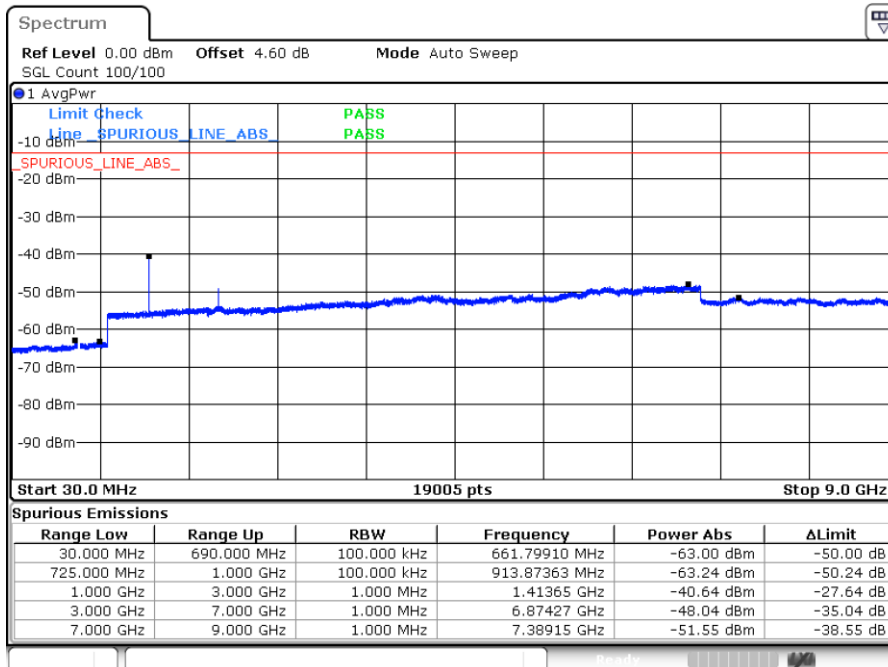


Date: 1.JAN.2021 21:18:23



Date: 1.JAN.2021 21:18:56

Highest Channel / QPSK



Date: 1.JAN.2021 21:19:26



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	0.0001	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0090	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0103	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0105	

Note:

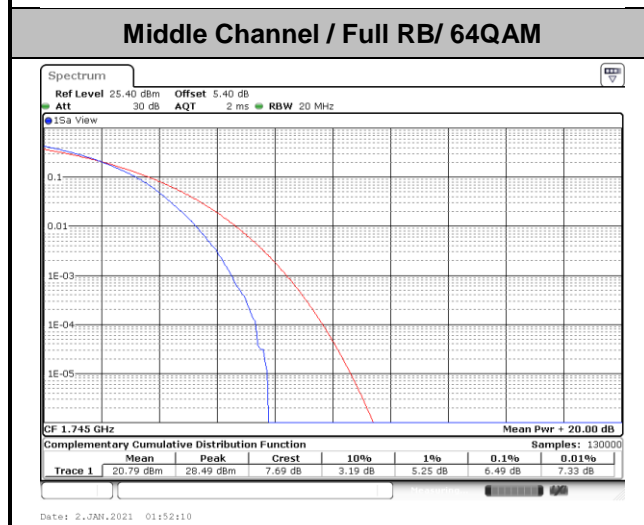
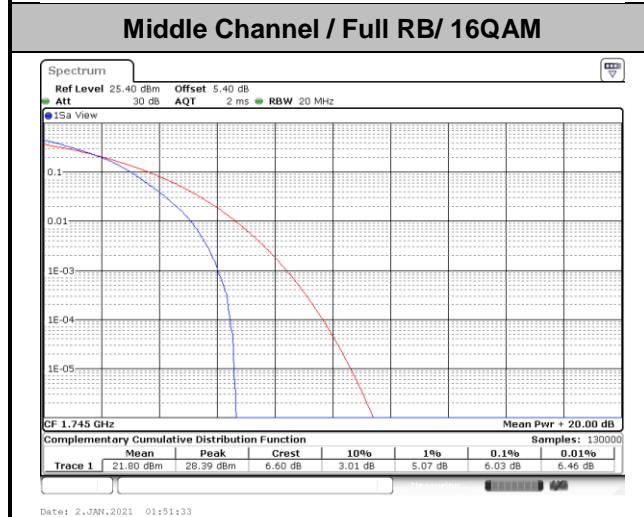
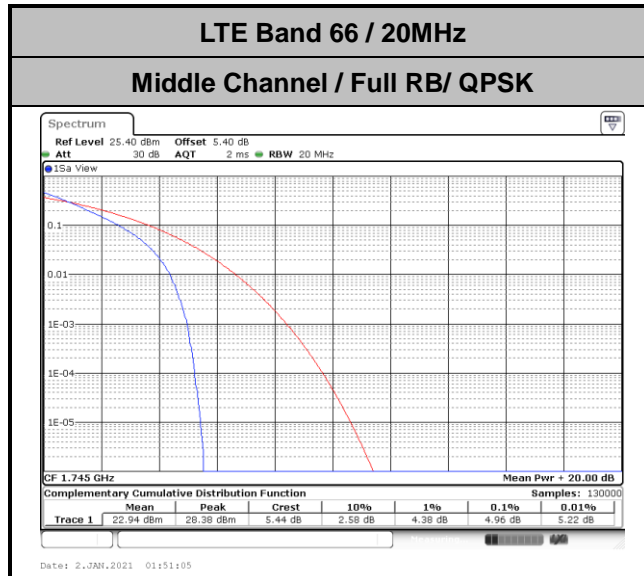
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 66

### Peak-to-Average Ratio

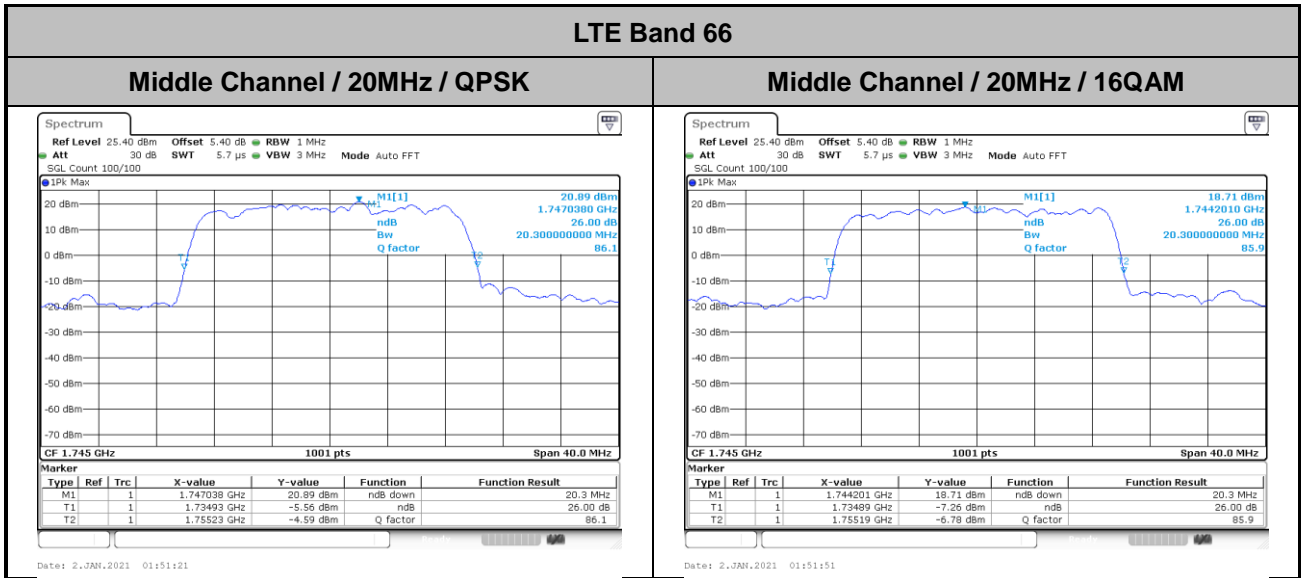
Mode	LTE Band 66 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	6.03	6.49	<b>PASS</b>





## 26dB Bandwidth

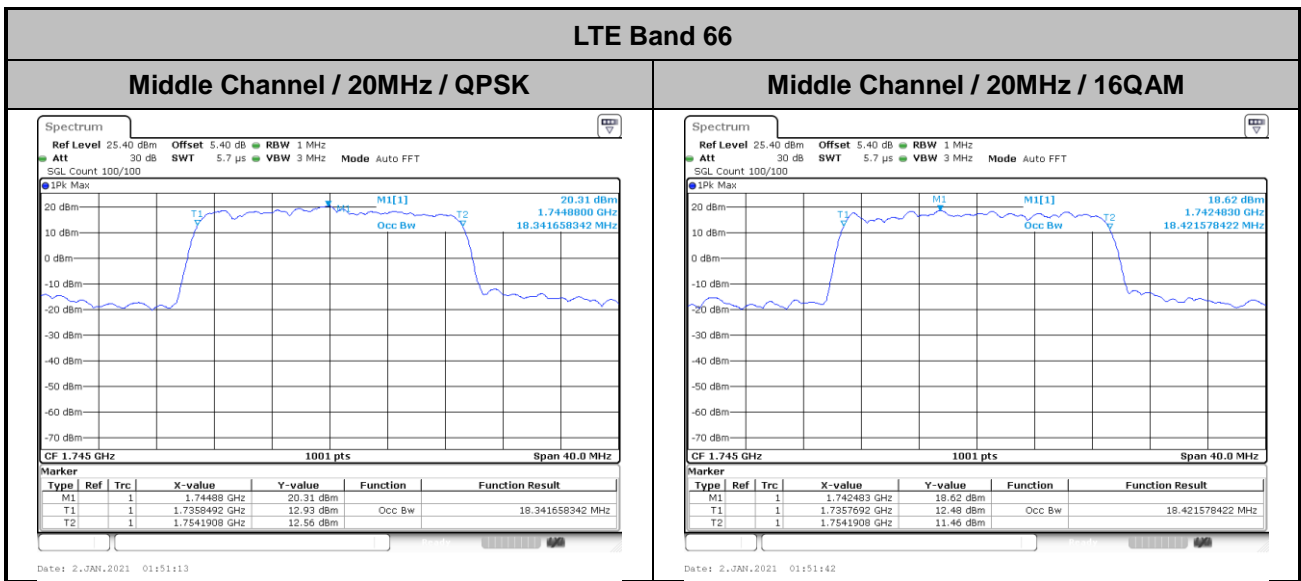
Mode	LTE Band 66 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.30	20.30





## Occupied Bandwidth

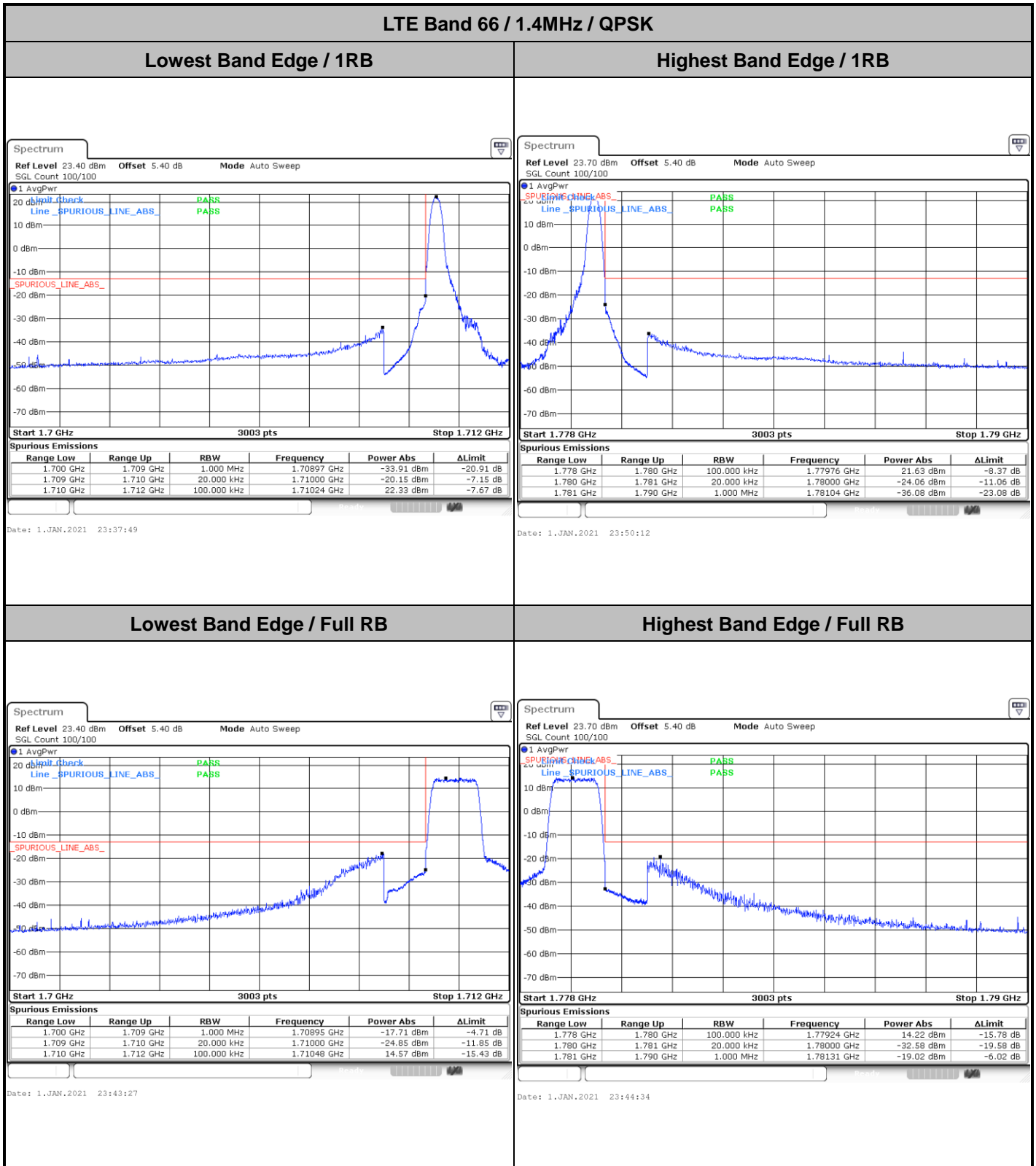
<b>Mode</b>	<b>LTE Band 66 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.34	18.42







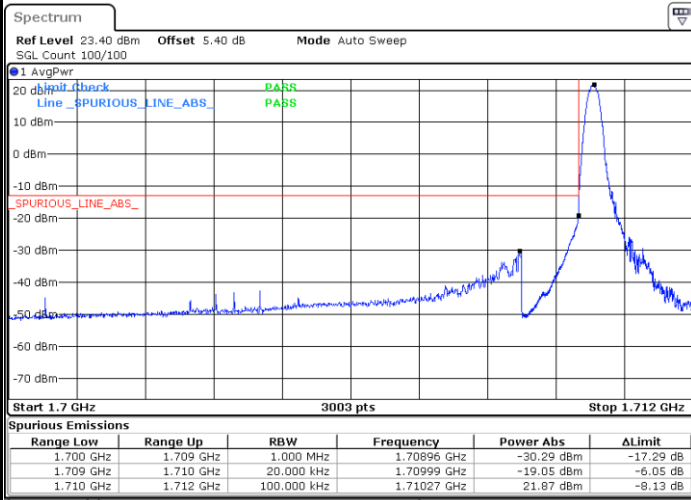
# Conducted Band Edge





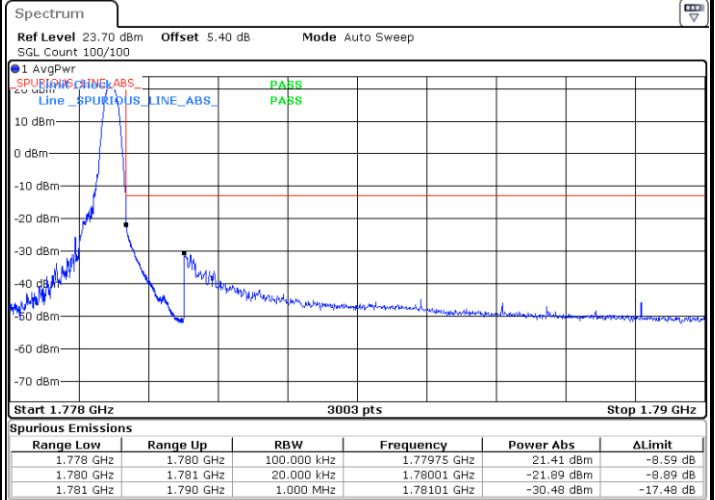
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



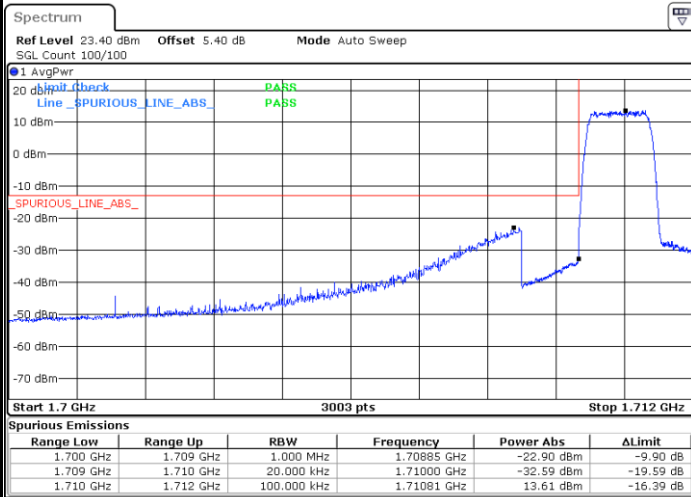
Date: 1.JAN.2021 23:38:57

Highest Band Edge / 1 RB



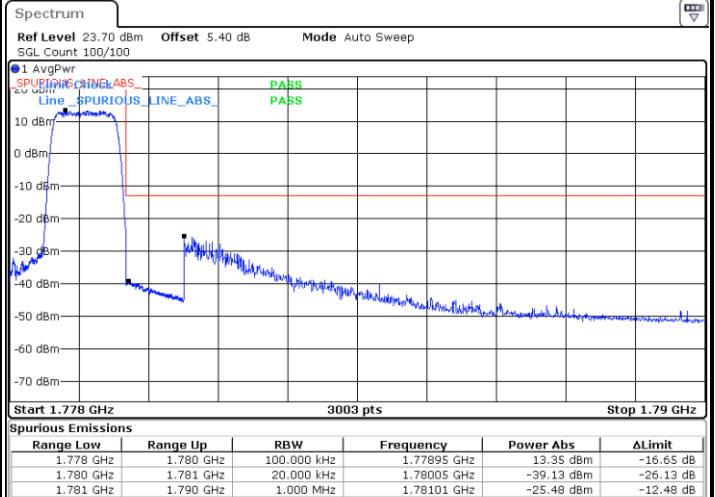
Date: 1.JAN.2021 23:49:05

Lowest Band Edge / Full RB



Date: 1.JAN.2021 23:42:19

Highest Band Edge / Full RB

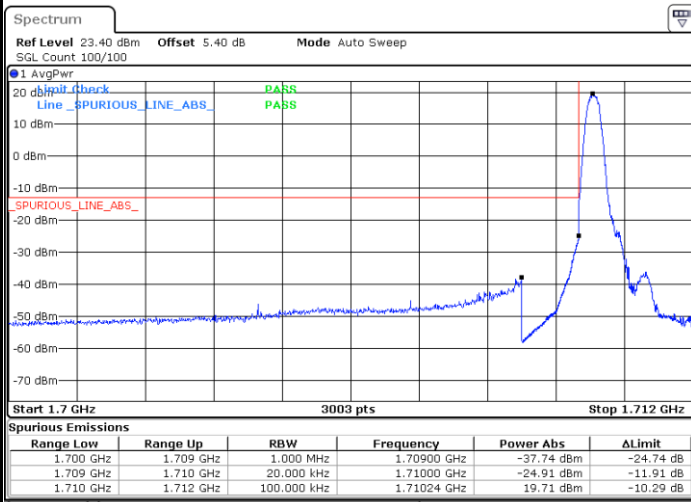


Date: 1.JAN.2021 23:45:42



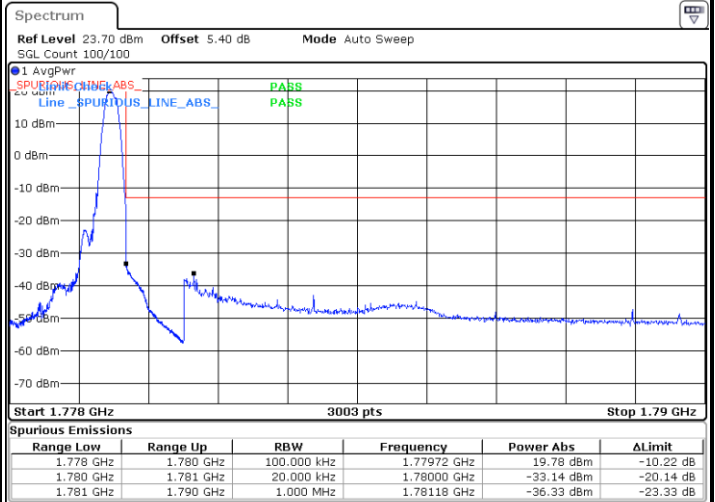
LTE Band 66 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



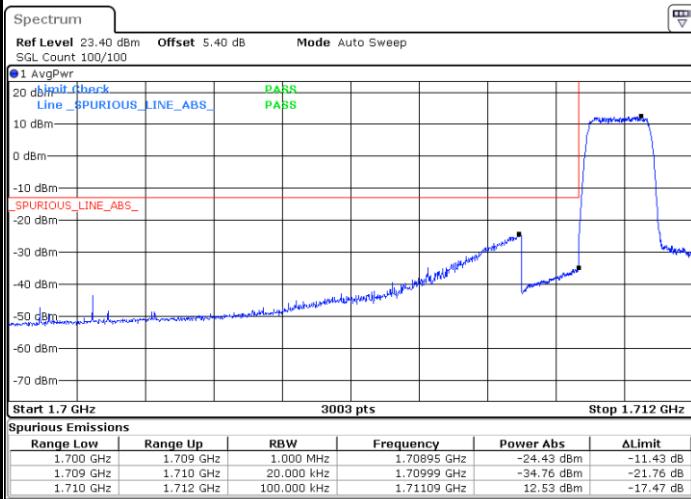
Date: 1.JAN.2021 23:40:04

Highest Band Edge / 1 RB



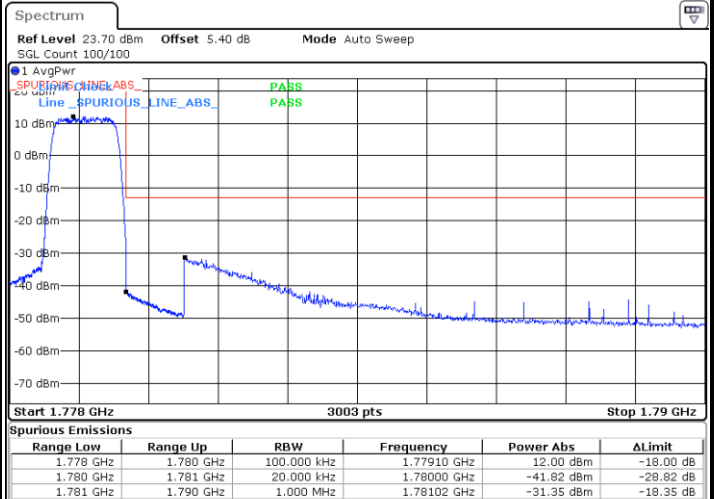
Date: 1.JAN.2021 23:47:57

Lowest Band Edge / Full RB



Date: 1.JAN.2021 23:41:12

Highest Band Edge / Full RB

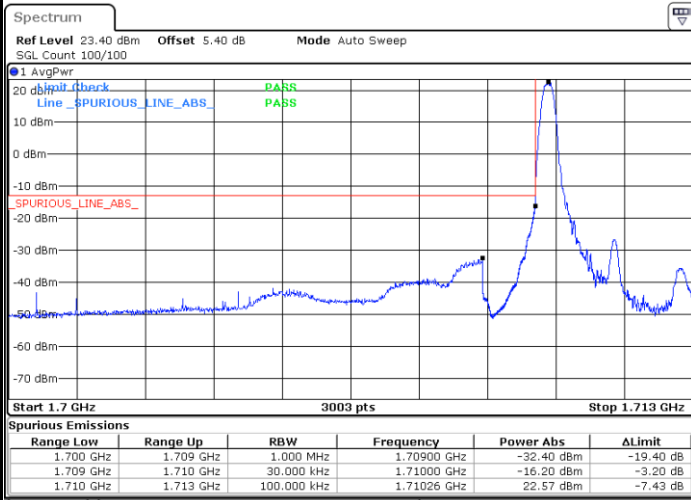


Date: 1.JAN.2021 23:46:50



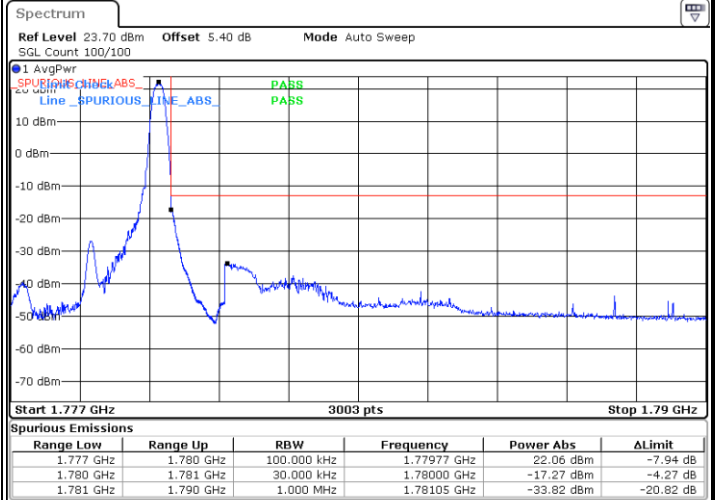
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



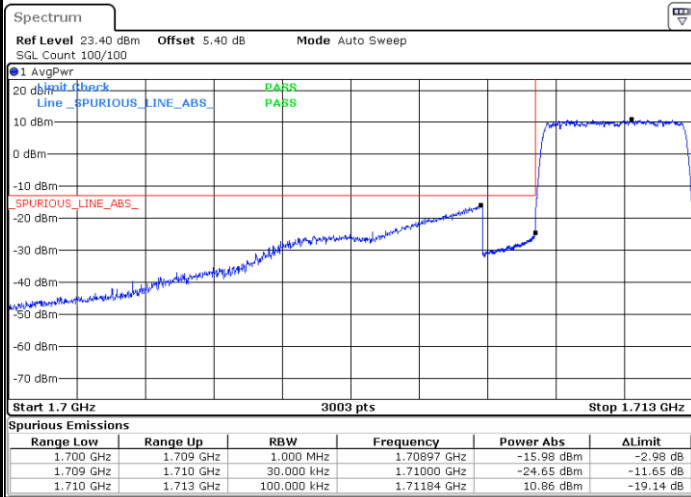
Date: 1.JAN.2021 23:51:20

Highest Band Edge / 1 RB



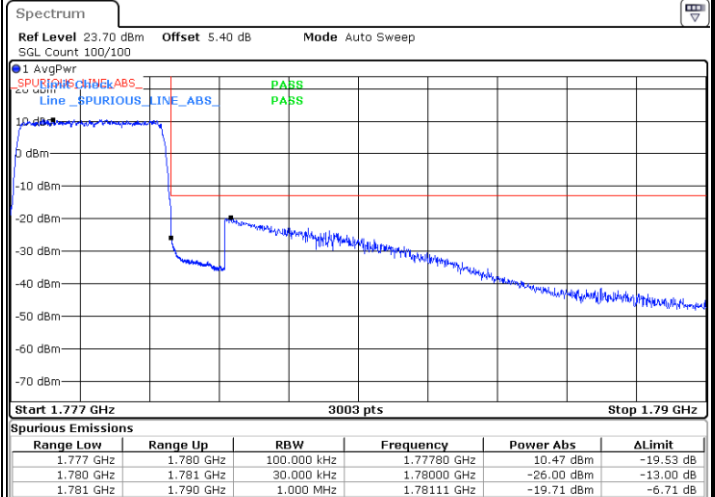
Date: 2.JAN.2021 00:03:42

Lowest Band Edge / Full RB



Date: 1.JAN.2021 23:56:57

Highest Band Edge / Full RB

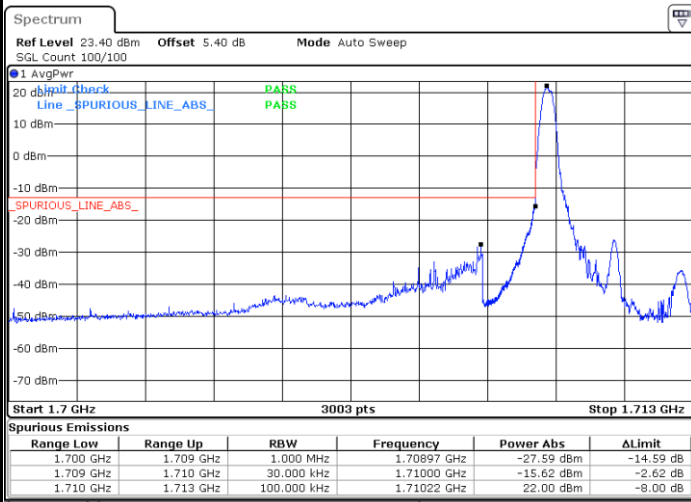


Date: 1.JAN.2021 23:58:05



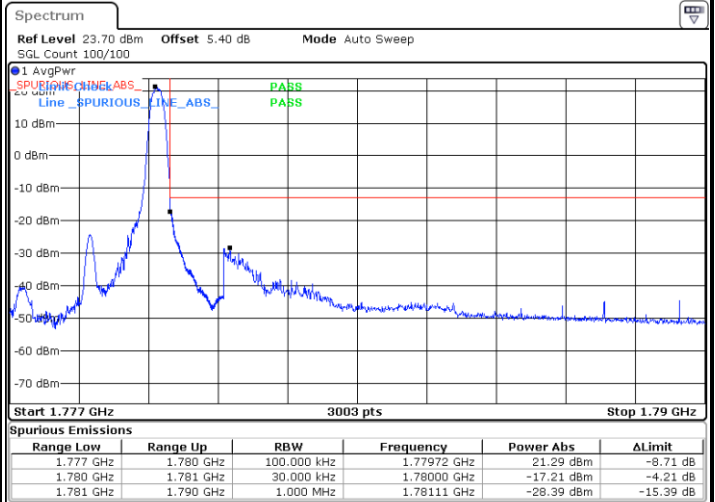
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



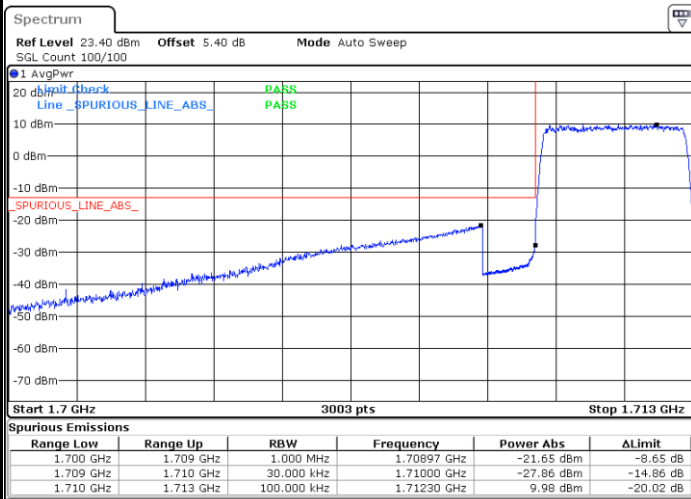
Date: 1.JAN.2021 23:52:27

Highest Band Edge / 1 RB



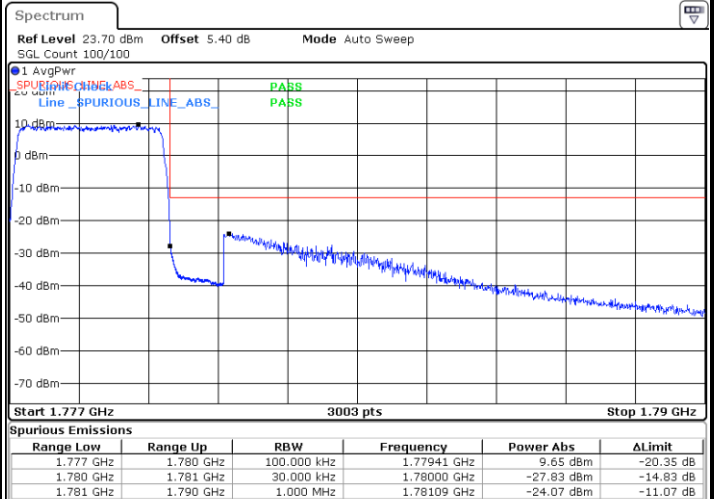
Date: 2.JAN.2021 00:02:35

Lowest Band Edge / Full RB



Date: 1.JAN.2021 23:55:50

Highest Band Edge / Full RB

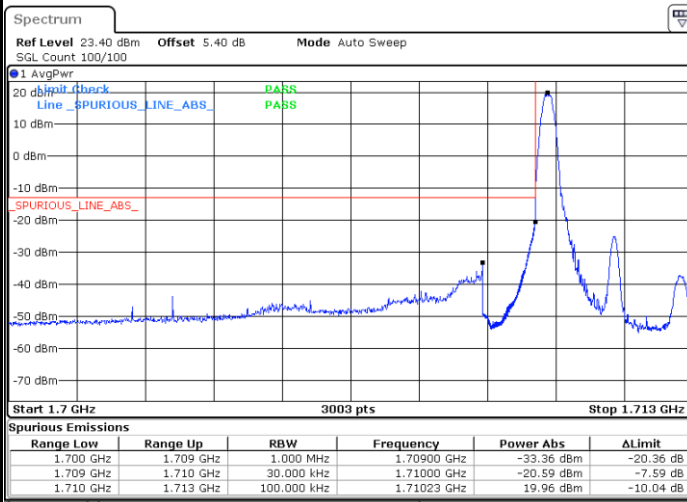


Date: 1.JAN.2021 23:59:13



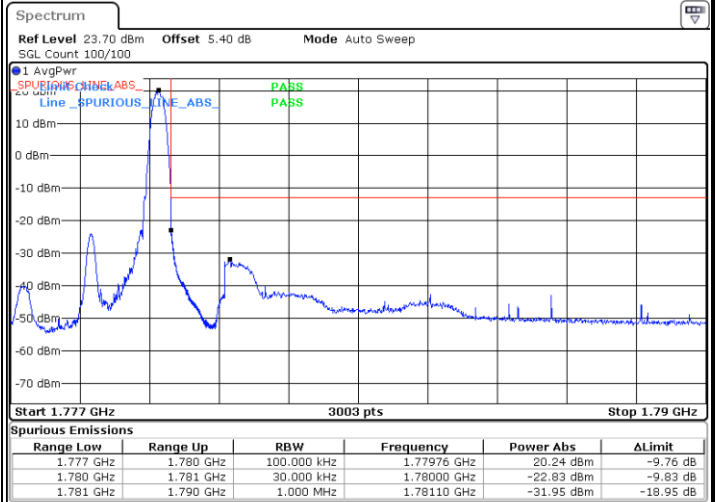
LTE Band 66 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



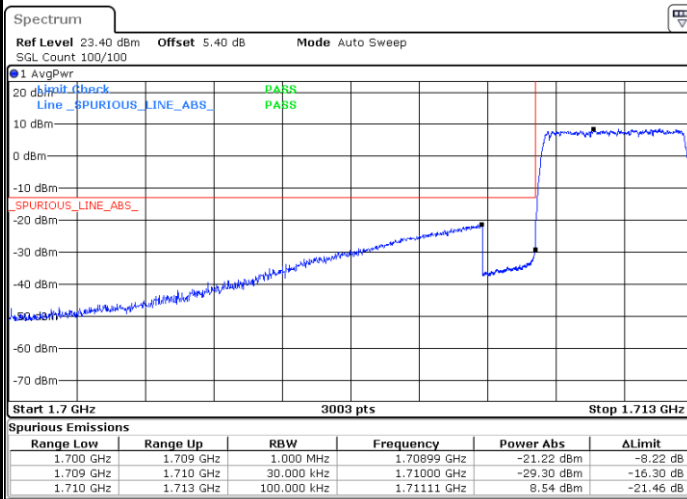
Date: 1.JAN.2021 23:53:35

Highest Band Edge / 1 RB



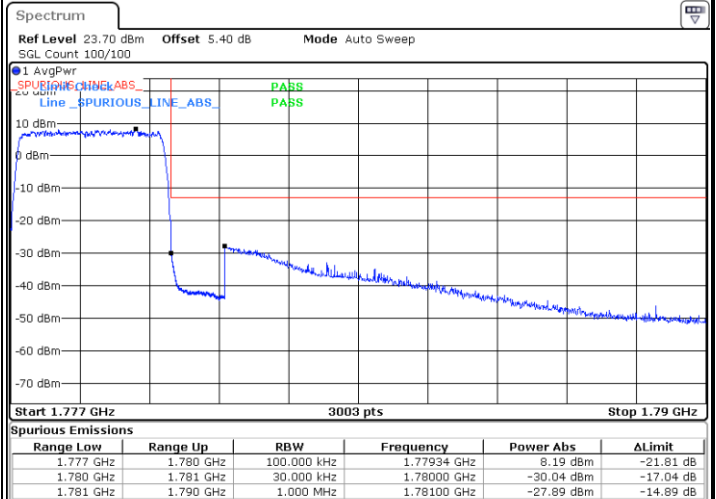
Date: 2.JAN.2021 00:01:27

Lowest Band Edge / Full RB



Date: 1.JAN.2021 23:54:42

Highest Band Edge / Full RB

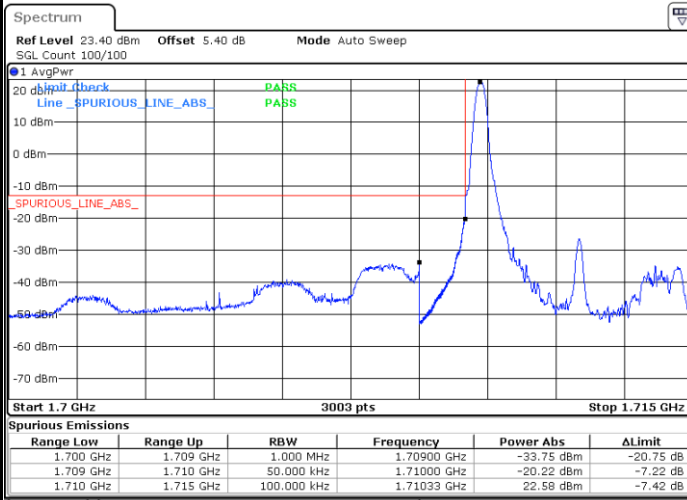


Date: 2.JAN.2021 00:00:20



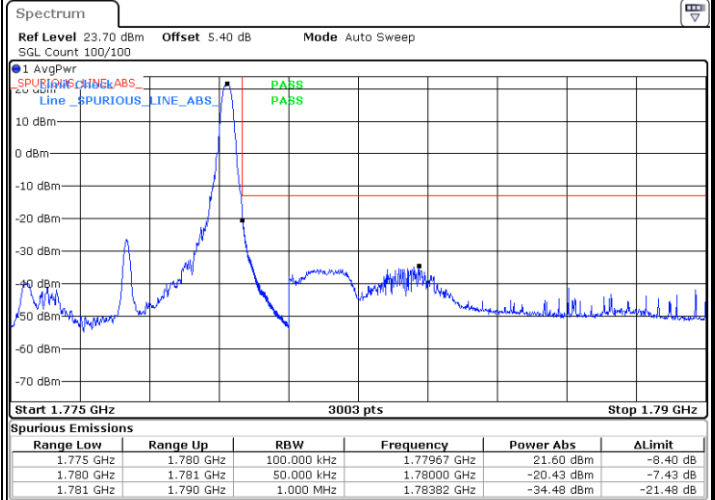
LTE Band 66 / 5MHz / QPSK

Lowest Band Edge / 1 RB



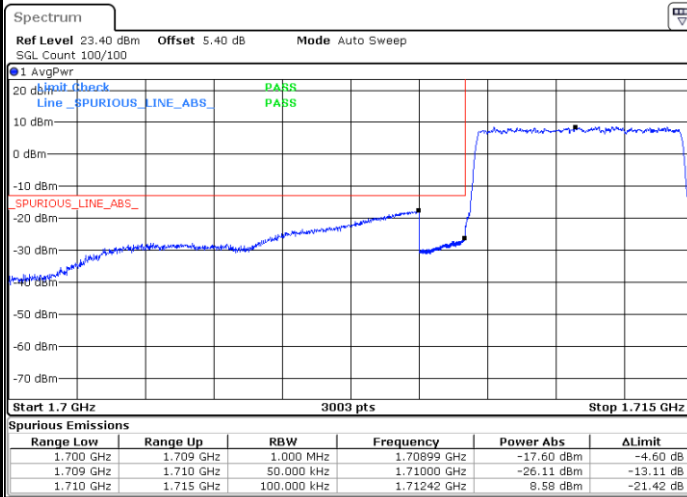
Date: 2.JAN.2021 00:04:50

Highest Band Edge / 1 RB



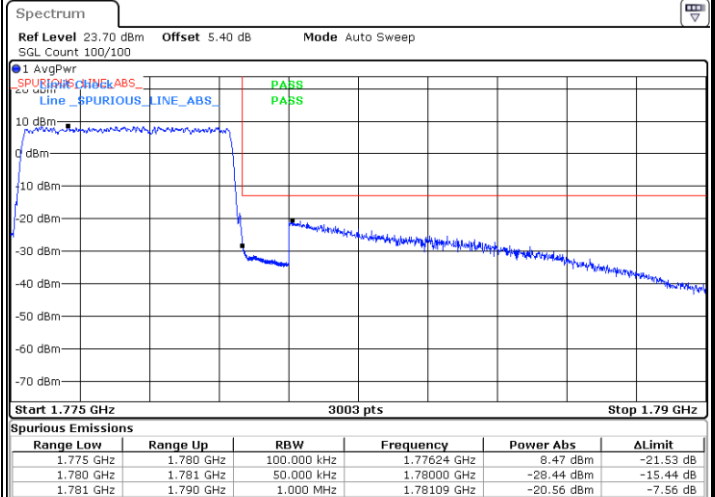
Date: 2.JAN.2021 00:26:12

Lowest Band Edge / Full RB



Date: 2.JAN.2021 00:10:28

Highest Band Edge / Full RB

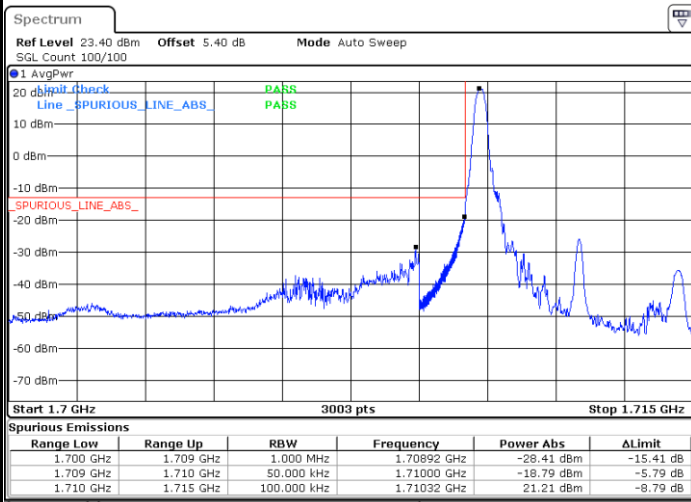


Date: 2.JAN.2021 01:09:41



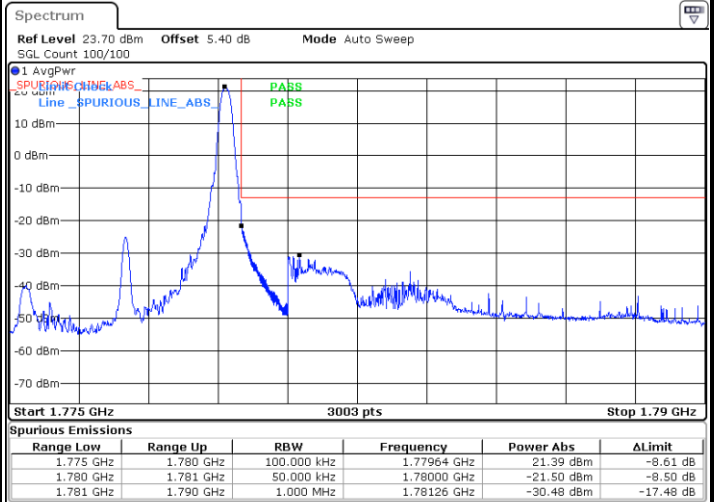
LTE Band 66 / 5MHz / 16QAM

Lowest Band Edge / 1RB



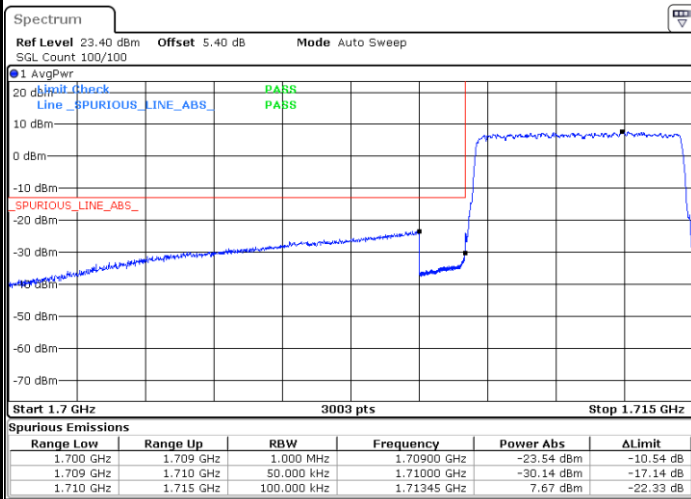
Date: 2.JAN.2021 00:05:57

Highest Band Edge / 1 RB



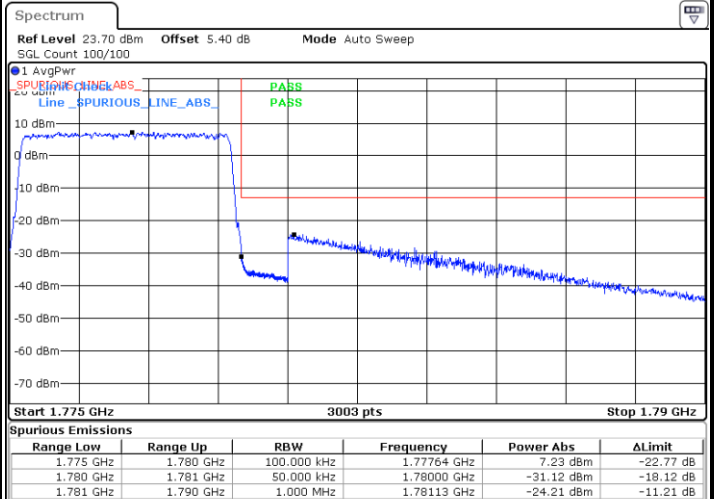
Date: 2.JAN.2021 00:25:05

Lowest Band Edge / Full RB



Date: 2.JAN.2021 00:09:20

Highest Band Edge / Full RB



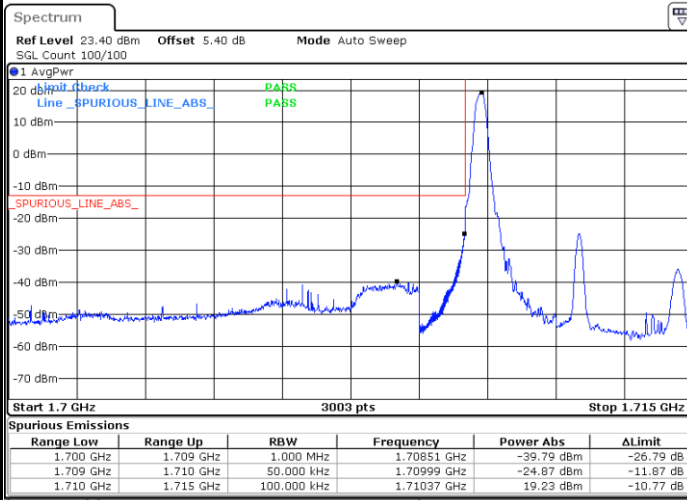
Date: 2.JAN.2021 00:21:43





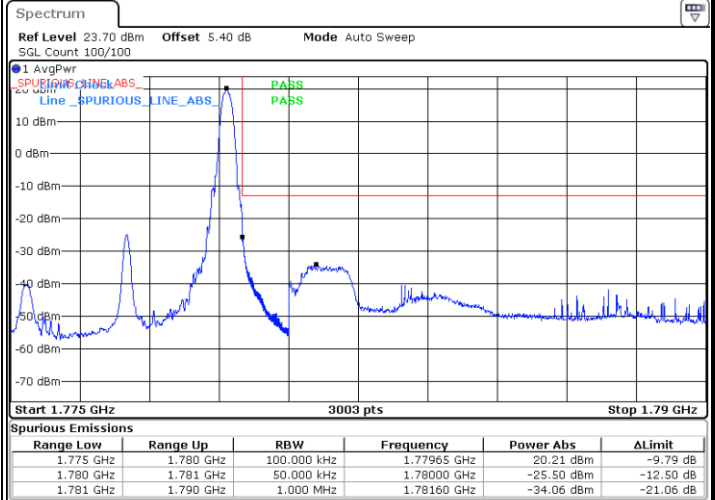
LTE Band 66 / 5MHz / 64QAM

Lowest Band Edge / 1RB



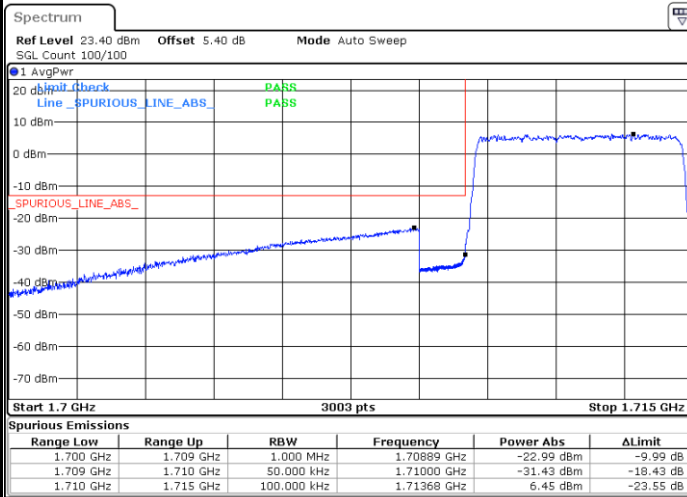
Date: 2, JAN, 2021 00:07:05

Highest Band Edge / 1 RB



Date: 2, JAN, 2021 00:23:57

Lowest Band Edge / Full RB



Date: 2, JAN, 2021 00:08:13

Highest Band Edge / Full RB

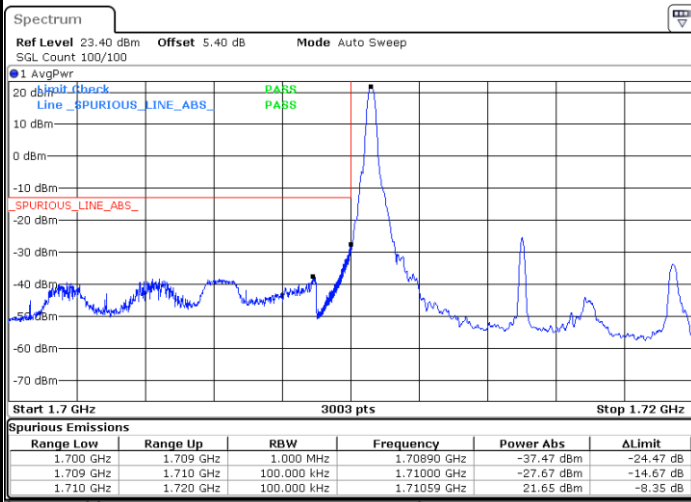


Date: 2, JAN, 2021 00:22:50



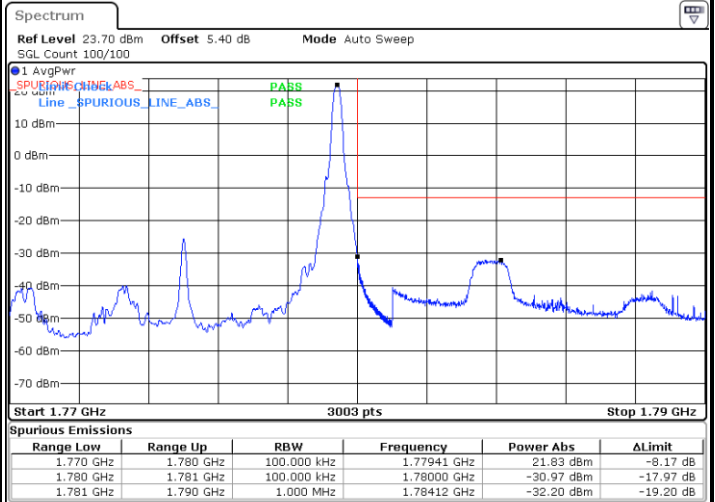
LTE Band 66 / 10MHz / QPSK

Lowest Band Edge / 1 RB



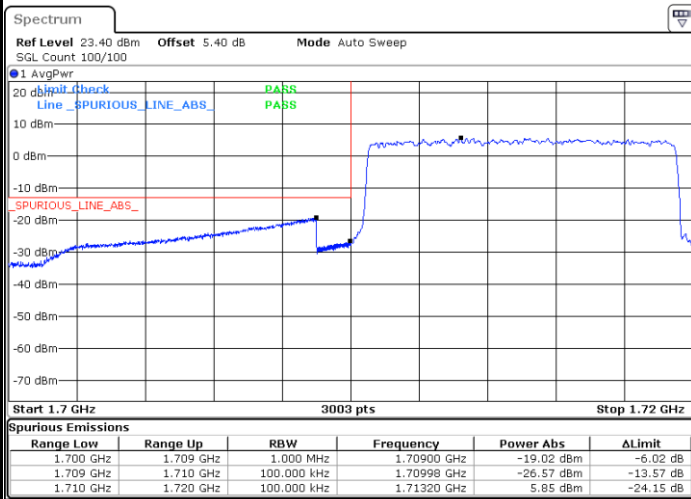
Date: 2, JAN, 2021 00:27:20

Highest Band Edge / 1 RB



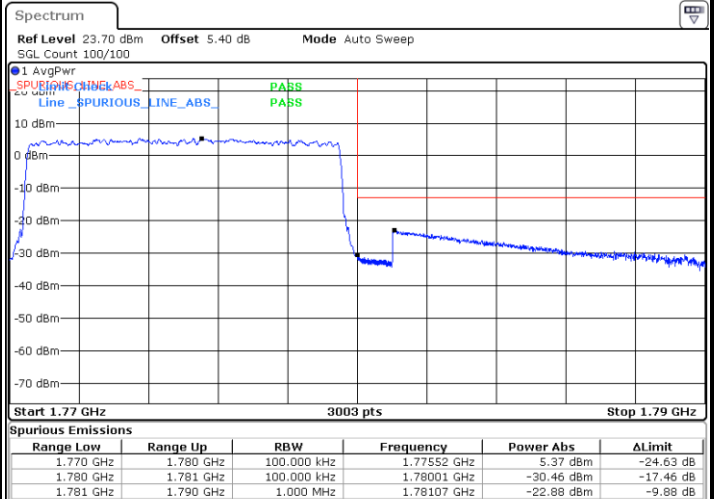
Date: 2, JAN, 2021 00:39:42

Lowest Band Edge / Full RB



Date: 2, JAN, 2021 00:32:57

Highest Band Edge / Full RB

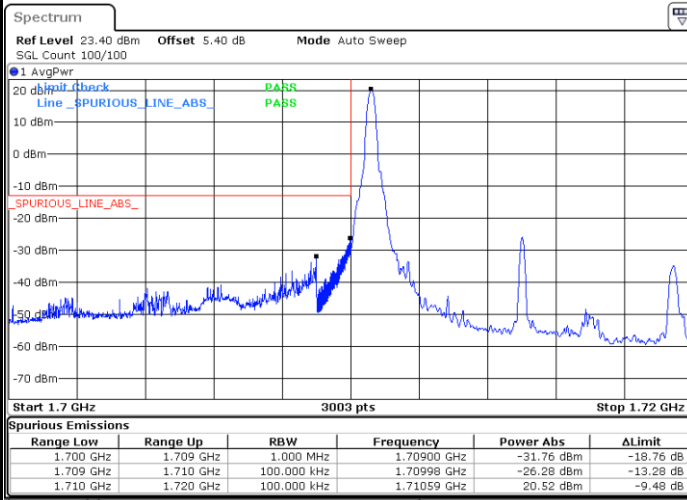


Date: 2, JAN, 2021 00:34:05



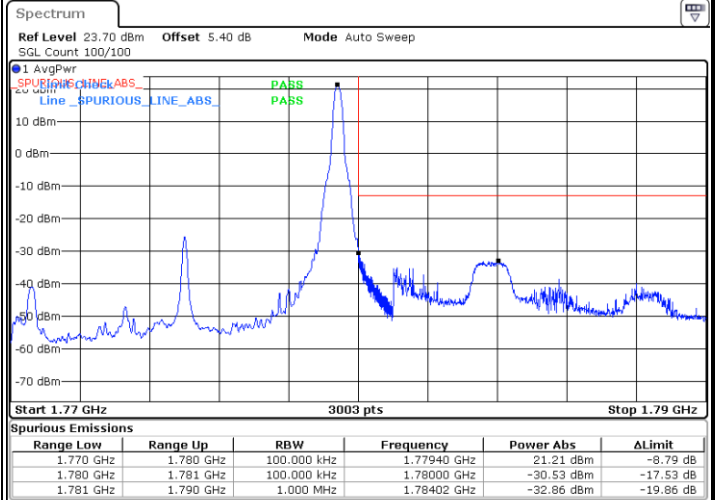
LTE Band 66 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



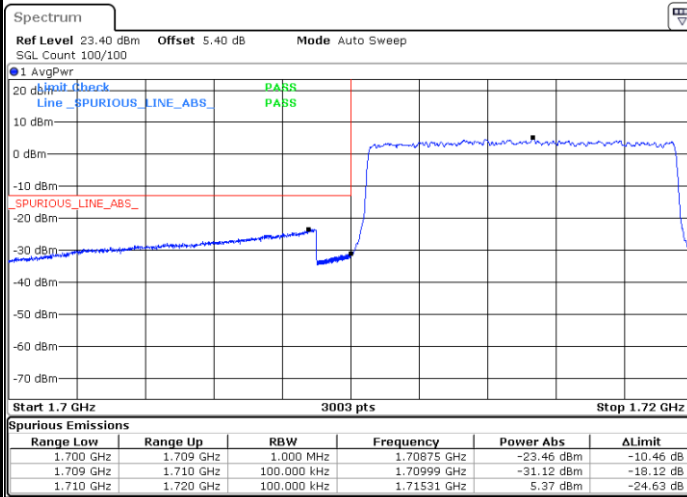
Date: 2, JAN, 2021 00:28:27

Highest Band Edge / 1 RB



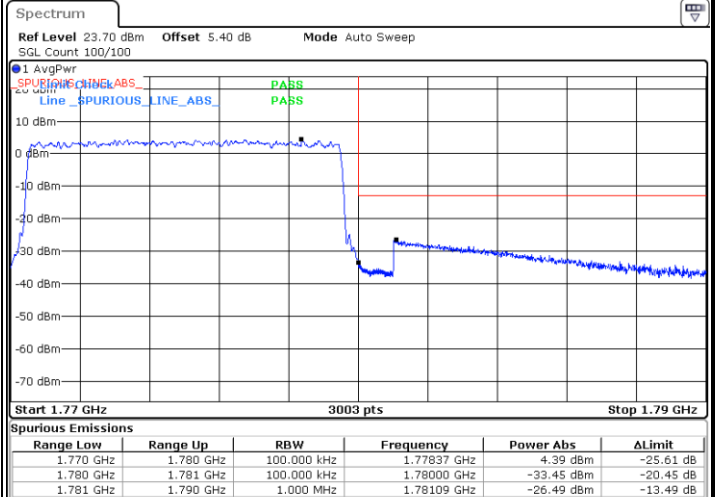
Date: 2, JAN, 2021 00:38:35

Lowest Band Edge / Full RB



Date: 2, JAN, 2021 00:31:50

Highest Band Edge / Full RB

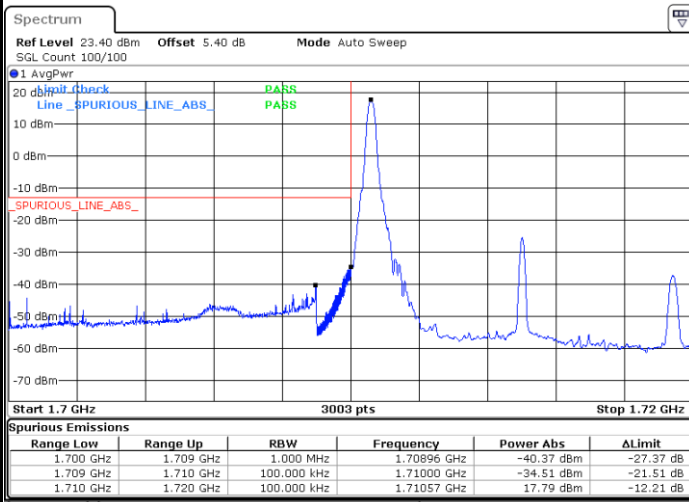


Date: 2, JAN, 2021 00:35:12



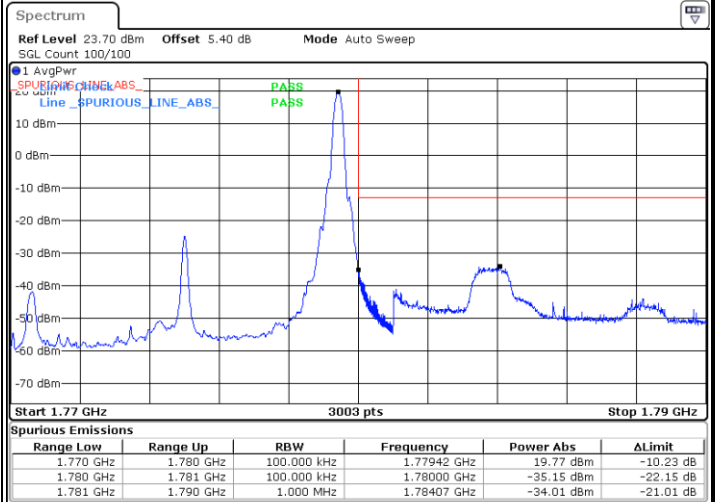
LTE Band 66 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



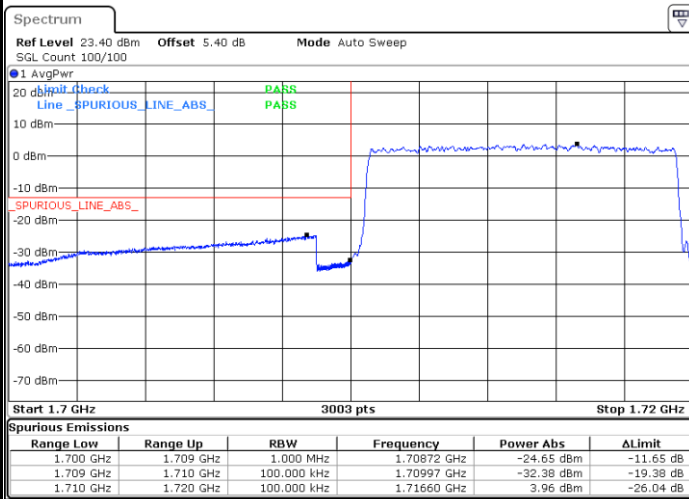
Date: 2.JAN.2021 00:29:35

Highest Band Edge / 1 RB



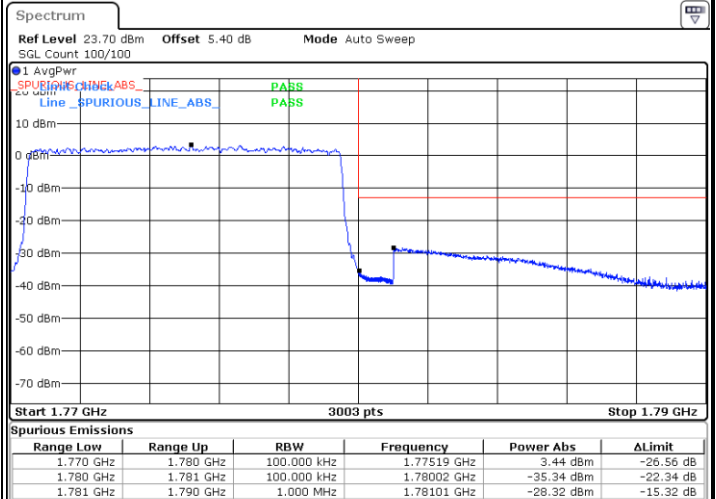
Date: 2.JAN.2021 00:37:27

Lowest Band Edge / Full RB



Date: 2.JAN.2021 00:30:42

Highest Band Edge / Full RB

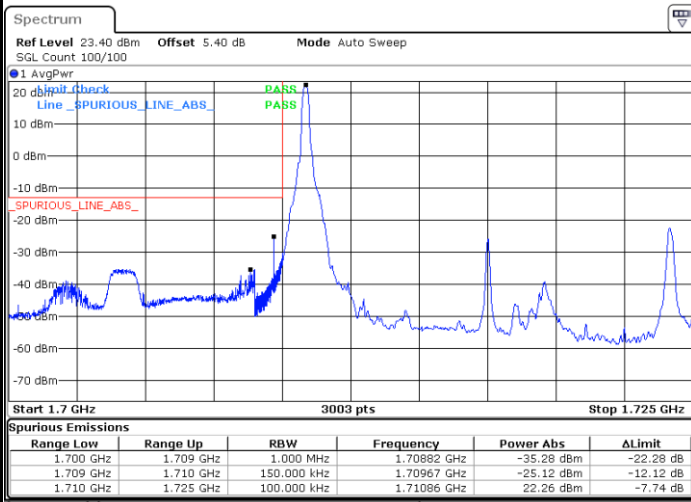


Date: 2.JAN.2021 00:36:20



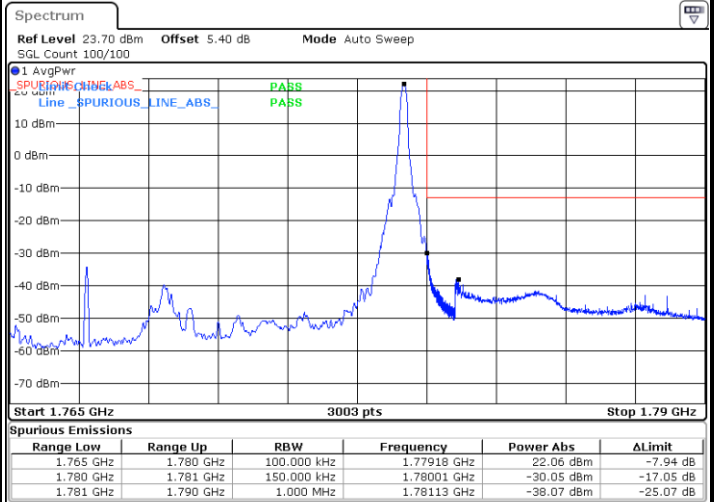
LTE Band 66 / 15MHz / QPSK

Lowest Band Edge / 1 RB



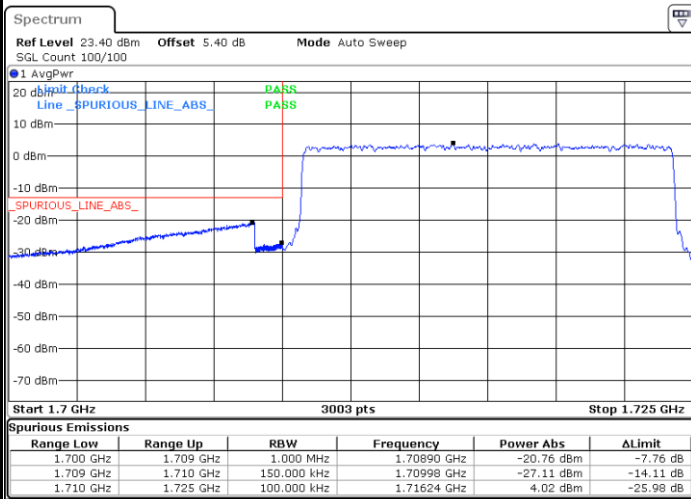
Date: 2.JAN.2021 00:40:50

Highest Band Edge / 1 RB



Date: 2.JAN.2021 00:53:13

Lowest Band Edge / Full RB



Date: 2.JAN.2021 00:46:28

Highest Band Edge / Full RB

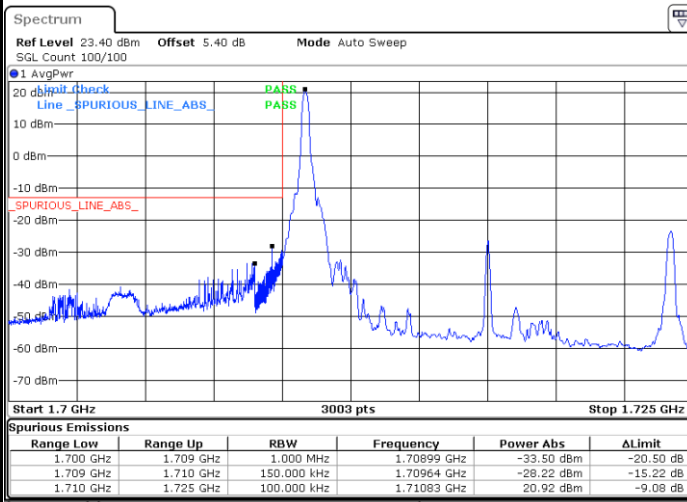


Date: 2.JAN.2021 00:47:35



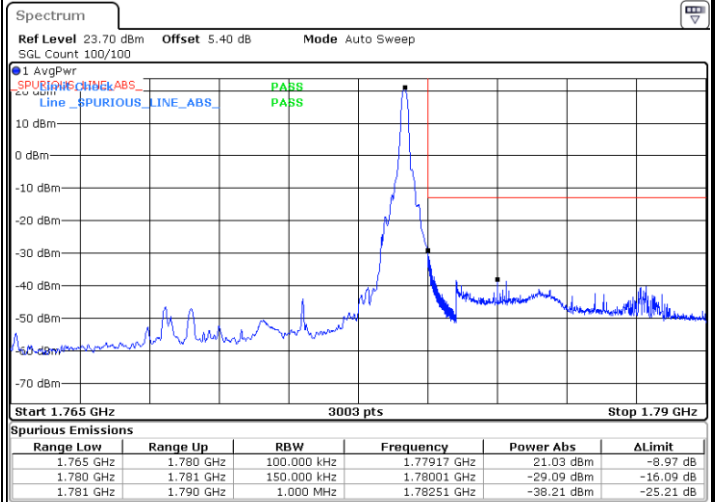
LTE Band 66 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



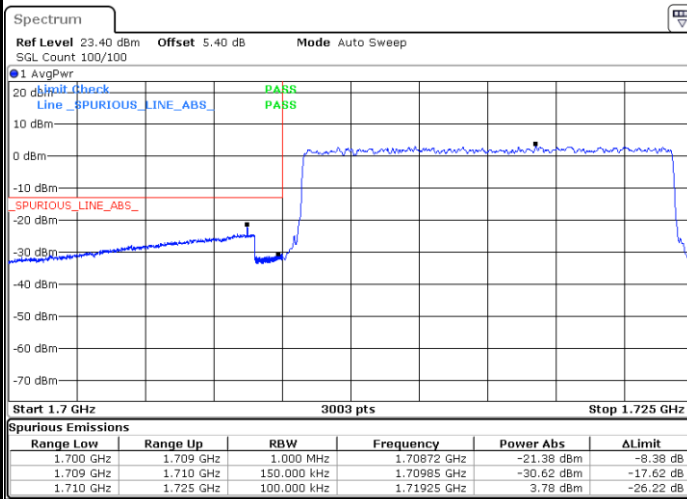
Date: 2.JAN.2021 00:41:58

Highest Band Edge / 1 RB



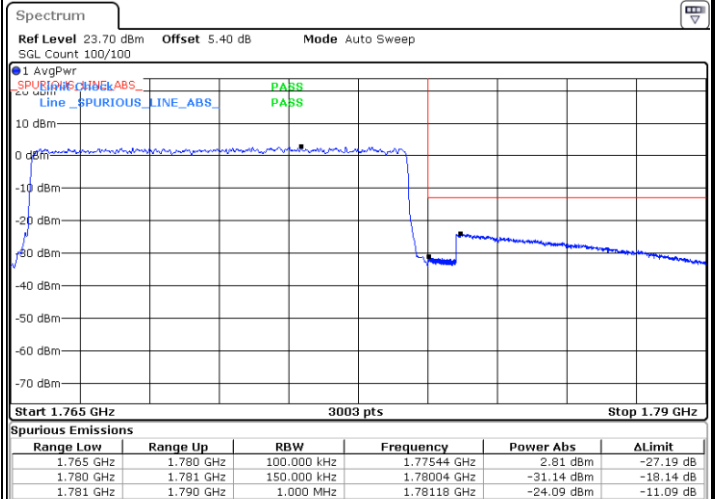
Date: 2.JAN.2021 00:52:05

Lowest Band Edge / Full RB



Date: 2.JAN.2021 00:45:20

Highest Band Edge / Full RB



Date: 2.JAN.2021 00:48:43