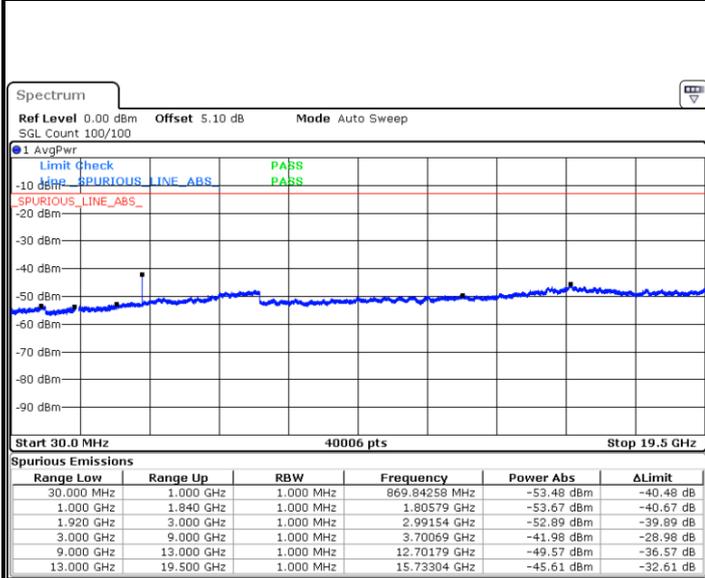




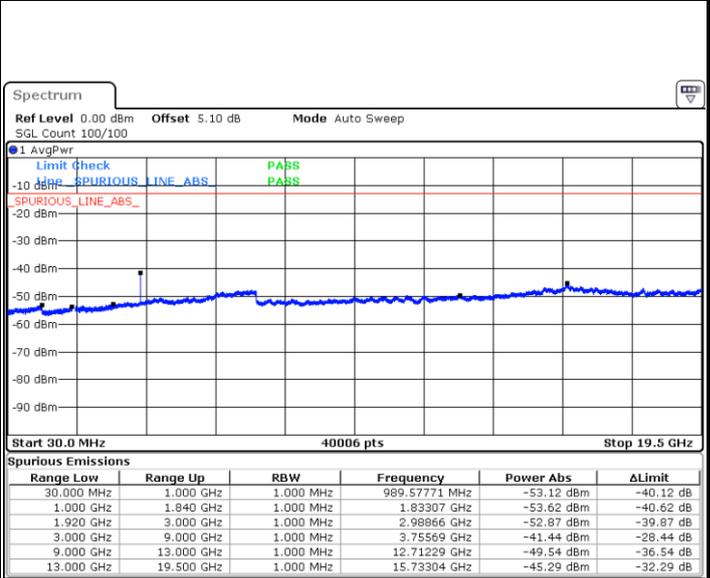
LTE Band 2 / 5MHz

Lowest Channel / QPSK



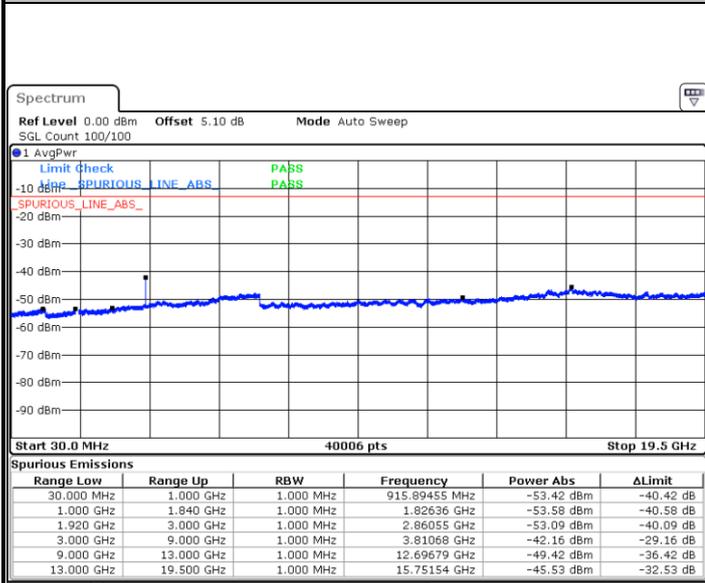
Date: 6.DEC.2020 00:19:12

Middle Channel / QPSK



Date: 6.DEC.2020 00:18:08

Highest Channel / QPSK



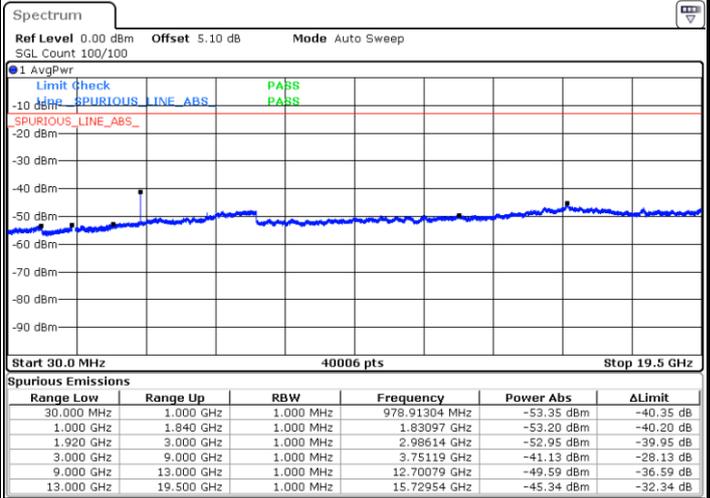
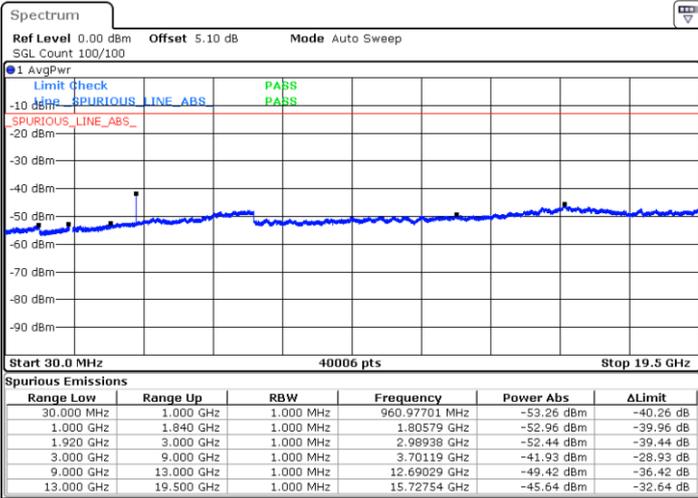
Date: 6.DEC.2020 00:22:03



LTE Band 2 / 10MHz

Lowest Channel / QPSK

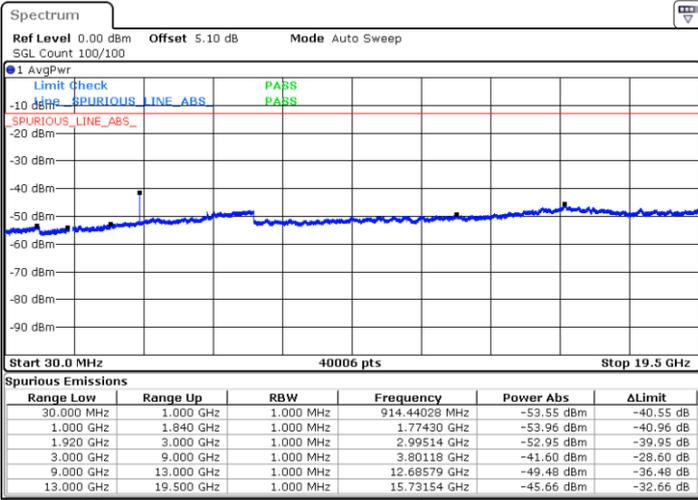
Middle Channel / QPSK



Date: 6.DEC.2020 00:13:30

Date: 6.DEC.2020 00:12:33

Highest Channel / QPSK

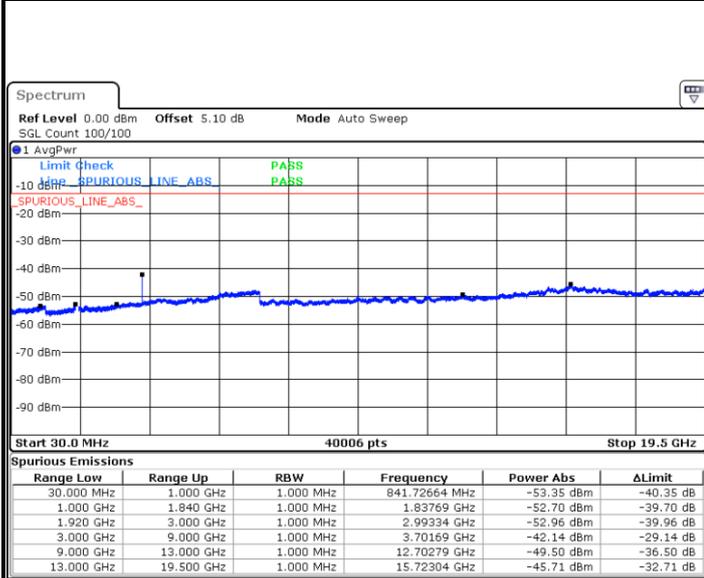


Date: 6.DEC.2020 00:15:46



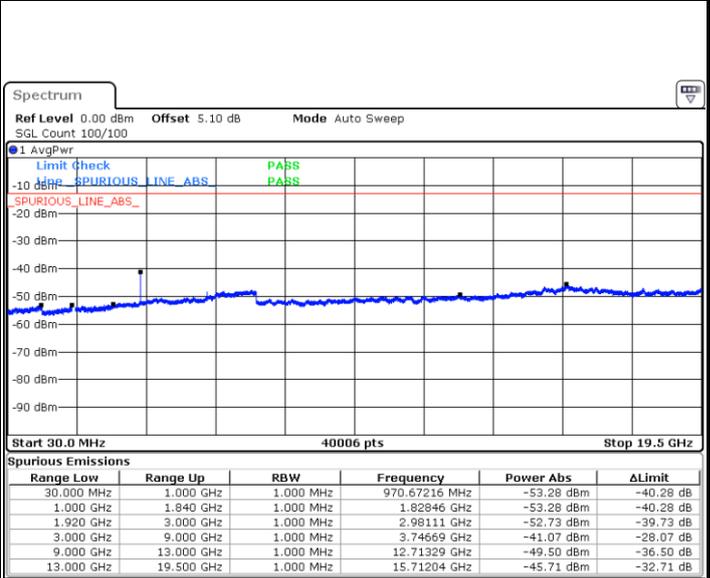
**LTE Band 2 / 15MHz**

**Lowest Channel / QPSK**



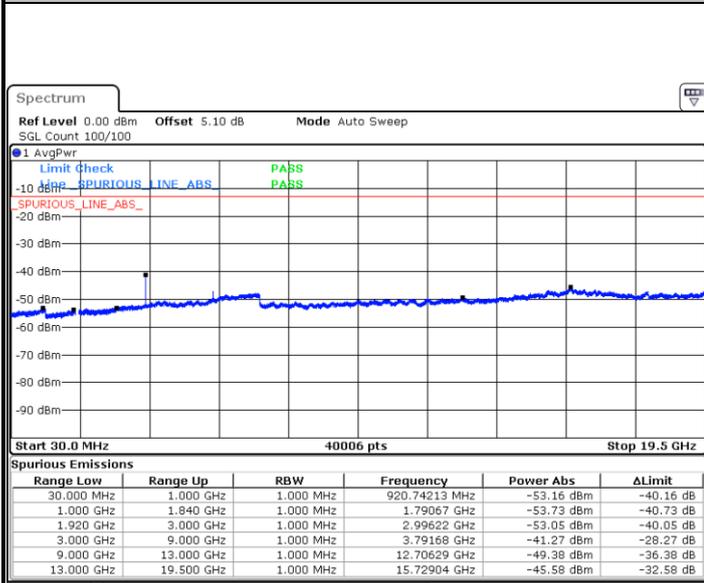
Date: 6.DEC.2020 00:06:06

**Middle Channel / QPSK**



Date: 6.DEC.2020 00:04:56

**Highest Channel / QPSK**

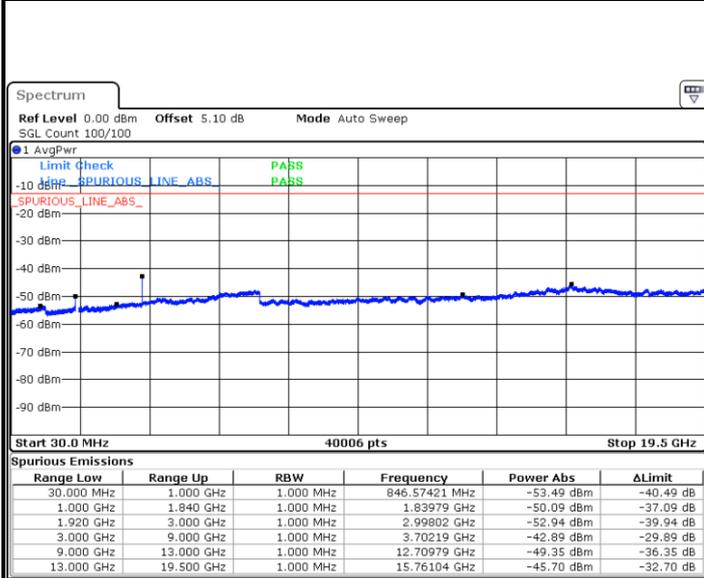


Date: 6.DEC.2020 00:09:56



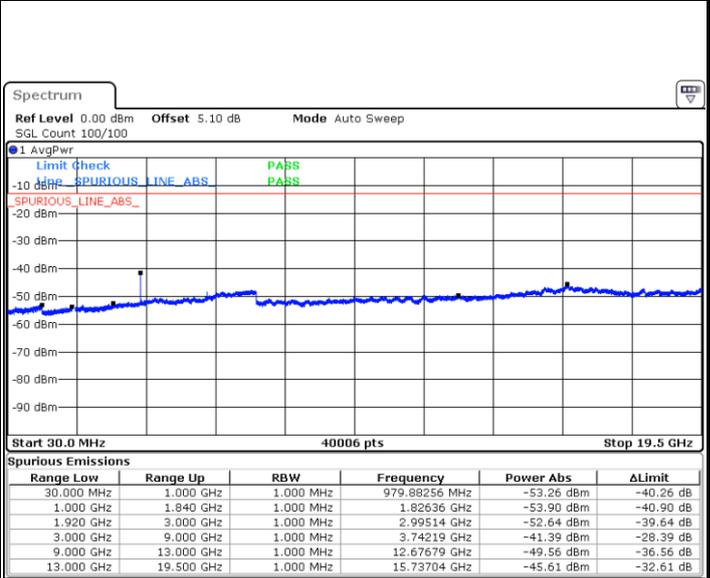
**LTE Band 2 / 20MHz**

**Lowest Channel / QPSK**



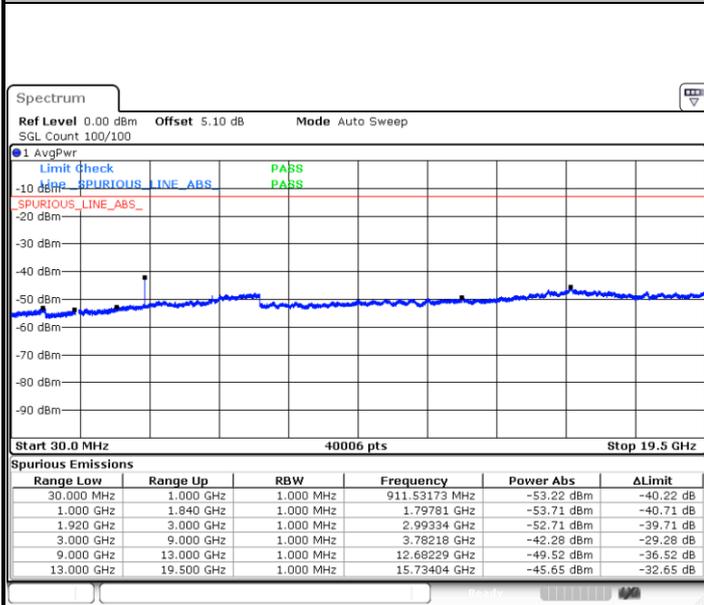
Date: 5.DEC.2020 23:59:38

**Middle Channel / QPSK**



Date: 6.DEC.2020 00:00:27

**Highest Channel / QPSK**



Date: 6.DEC.2020 00:01:12



### Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0002	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0037	
20	Battery End Point	0.0041	

**Note:**

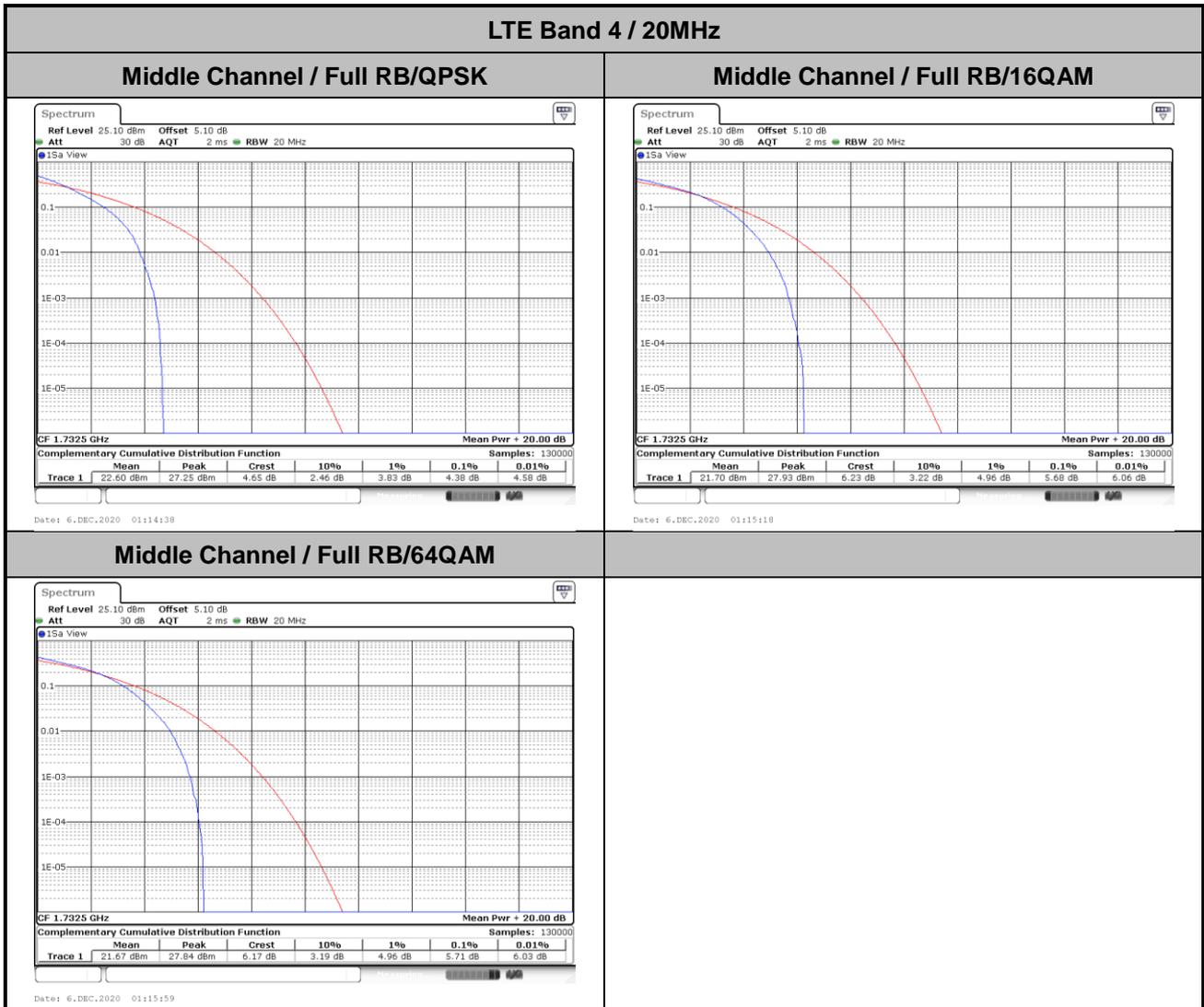
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 4

## Peak-to-Average Ratio

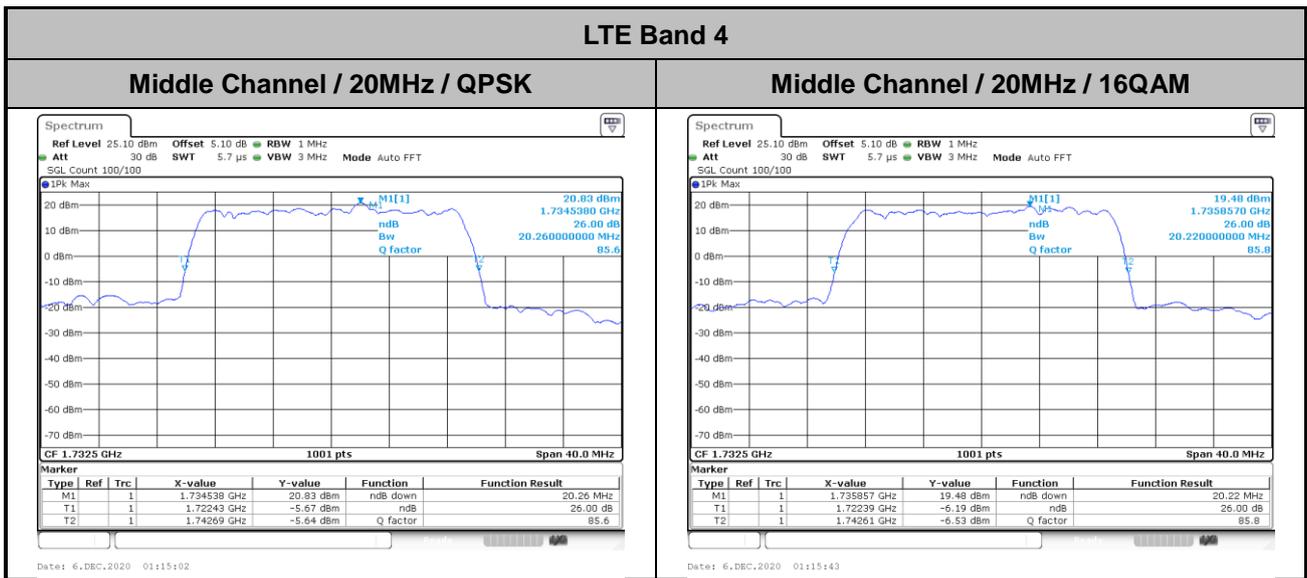
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	-	Result
Middle CH	4.38	5.68	5.71	-	PASS





## 26dB Bandwidth

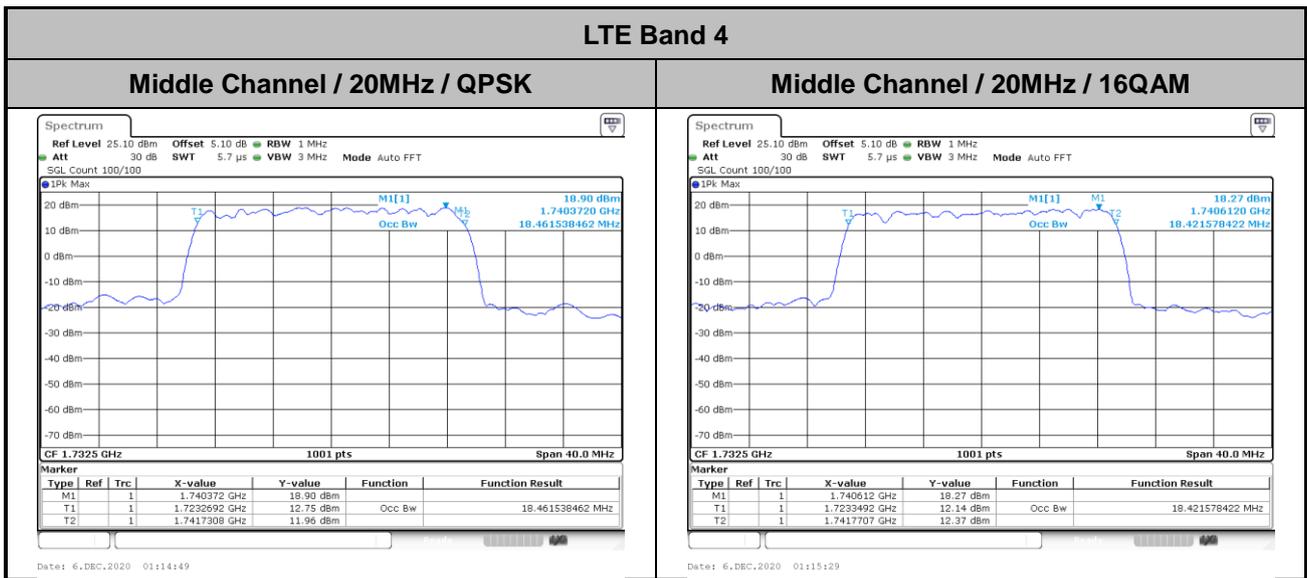
LTE Band 4		
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.26	20.22





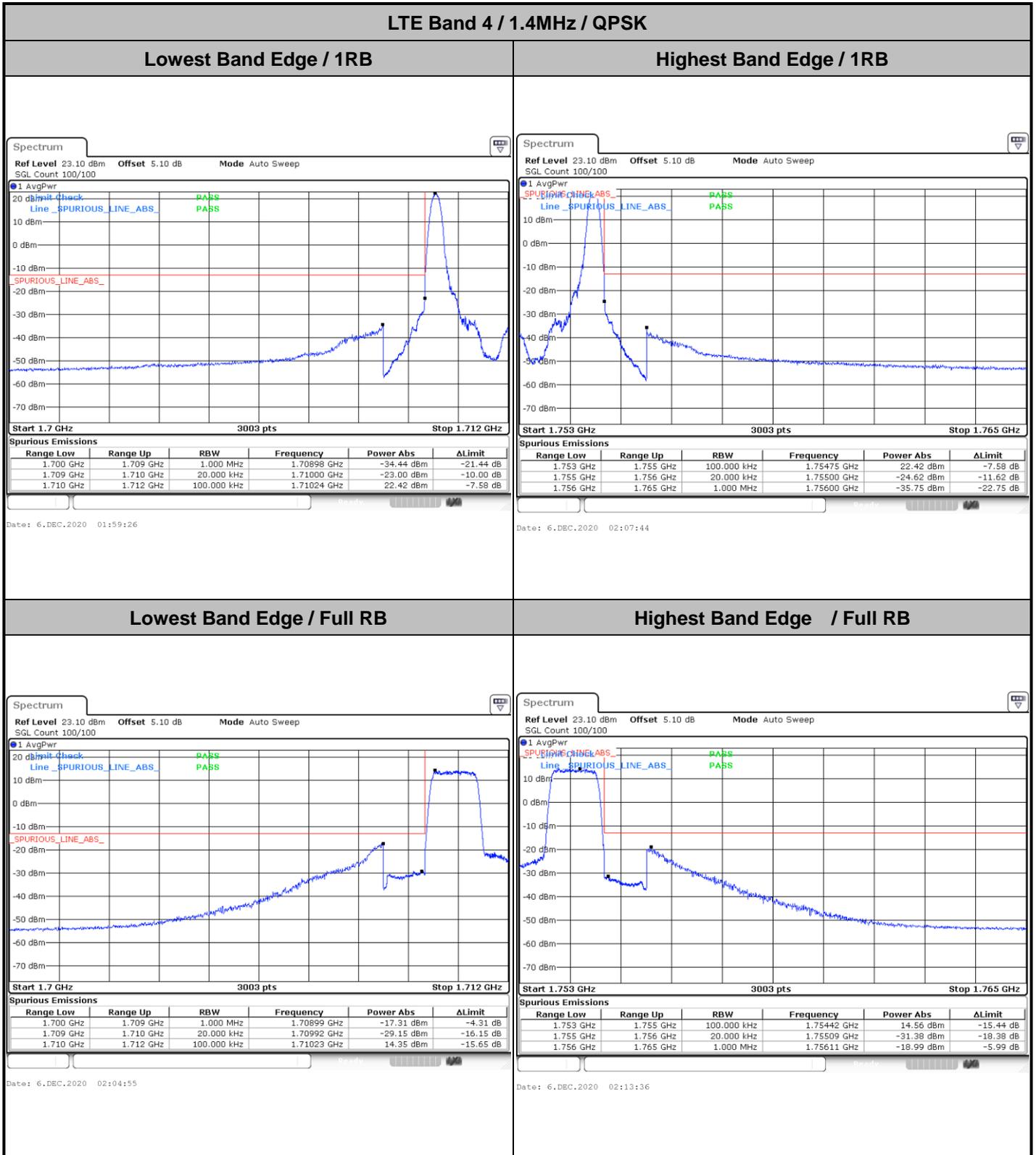
# Occupied Bandwidth

LTE Band 4		
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.46	18.42





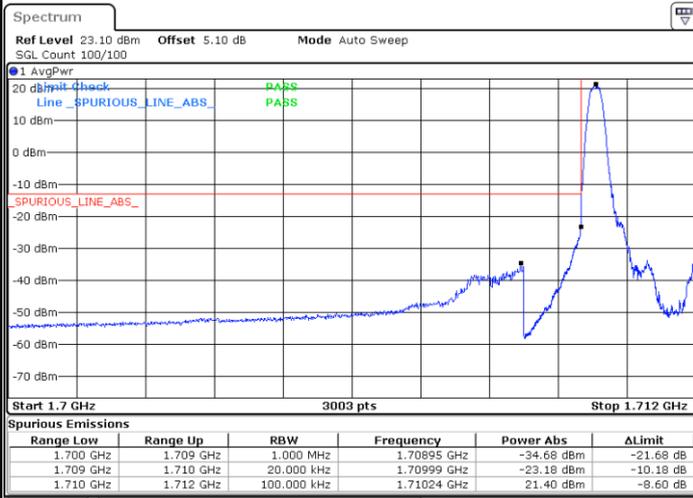
# Conducted Band Edge





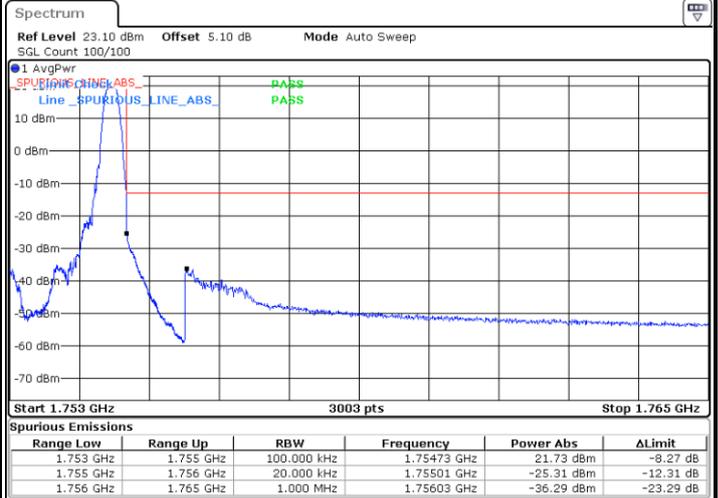
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



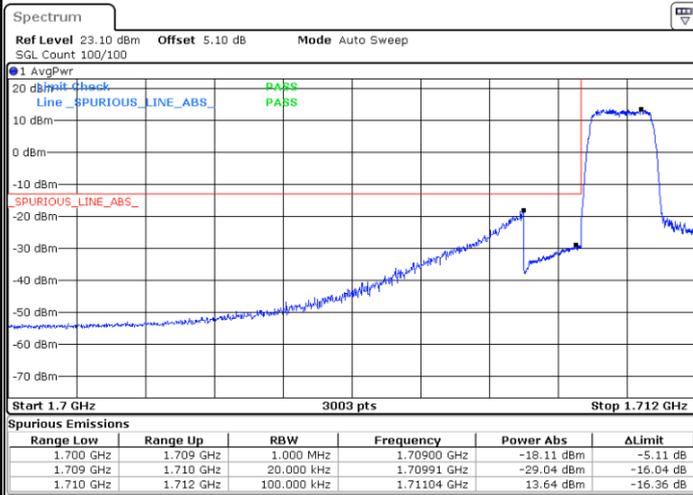
Date: 6.DEC.2020 02:00:31

Highest Band Edge / 1 RB



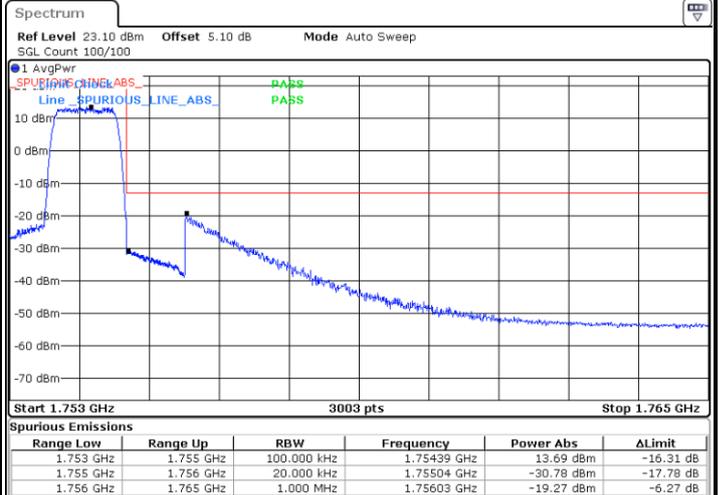
Date: 6.DEC.2020 02:09:06

Lowest Band Edge / Full RB



Date: 6.DEC.2020 02:03:49

Highest Band Edge / Full RB

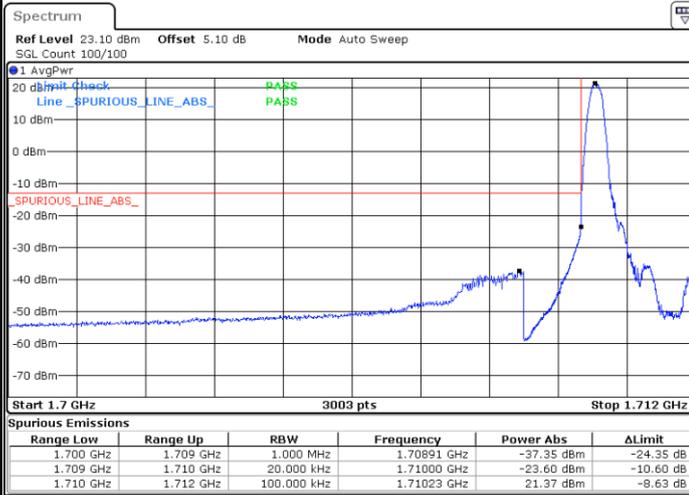


Date: 6.DEC.2020 02:12:25



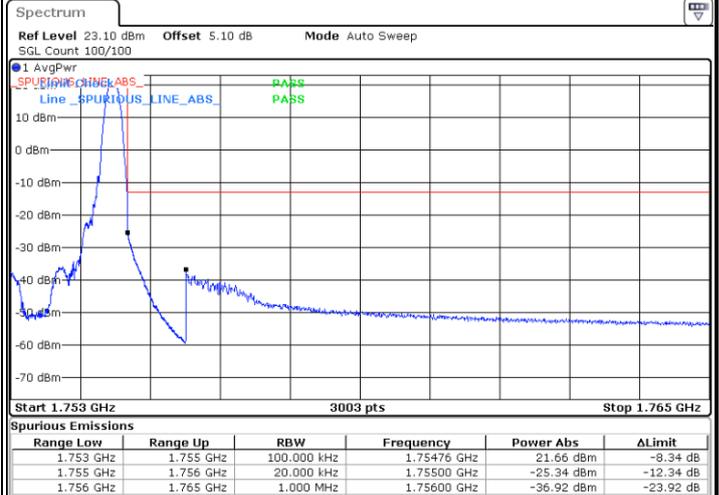
LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



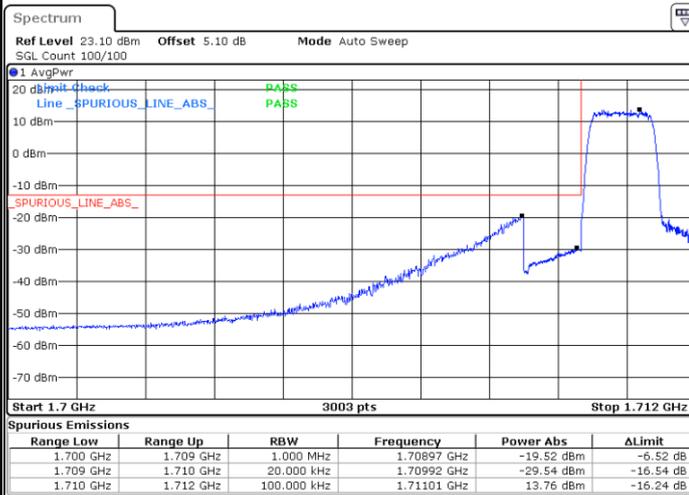
Date: 6.DEC.2020 02:01:37

Highest Band Edge / 1 RB



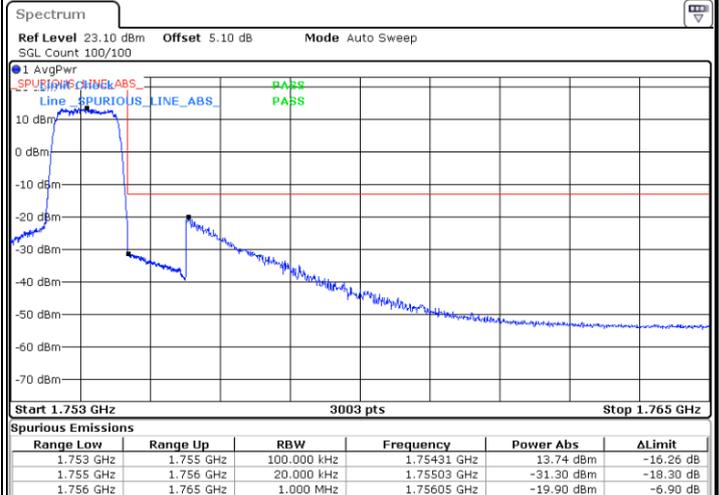
Date: 6.DEC.2020 02:10:12

Lowest Band Edge / Full RB



Date: 6.DEC.2020 02:02:43

Highest Band Edge / Full RB



Date: 6.DEC.2020 02:11:20



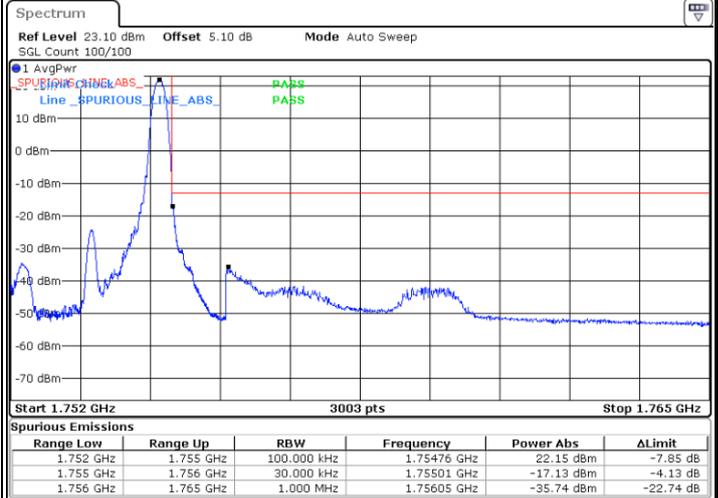
LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 6.DEC.2020 01:50:06

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:51:32

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:49:07

Highest Band Edge / Full RB

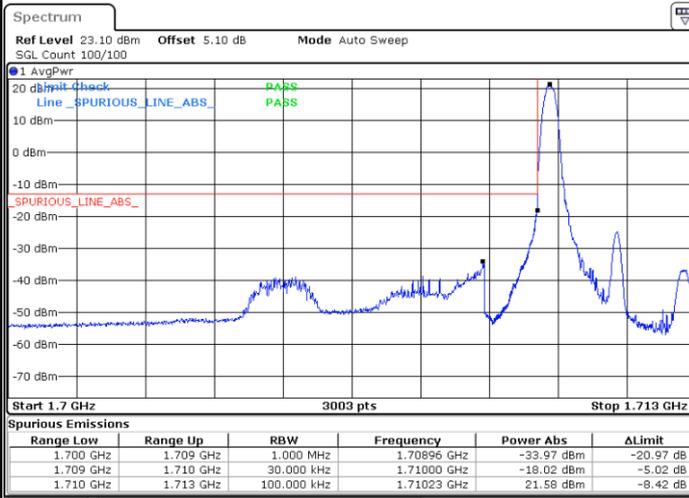


Date: 6.DEC.2020 01:55:03



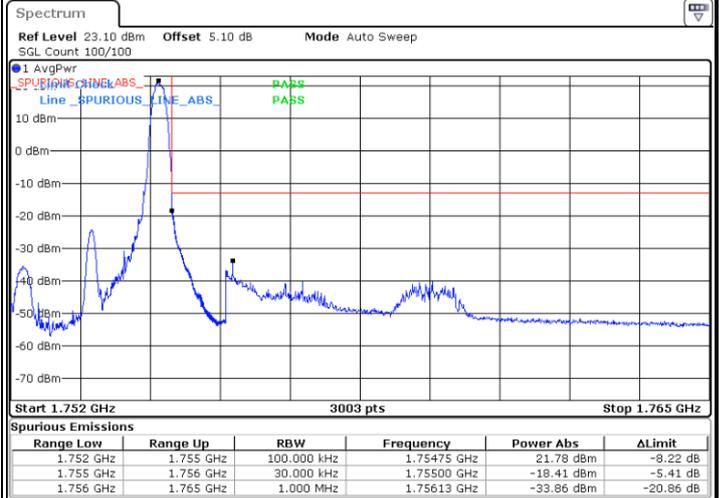
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 6.DEC.2020 01:46:02

Highest Band Edge / 1 RB



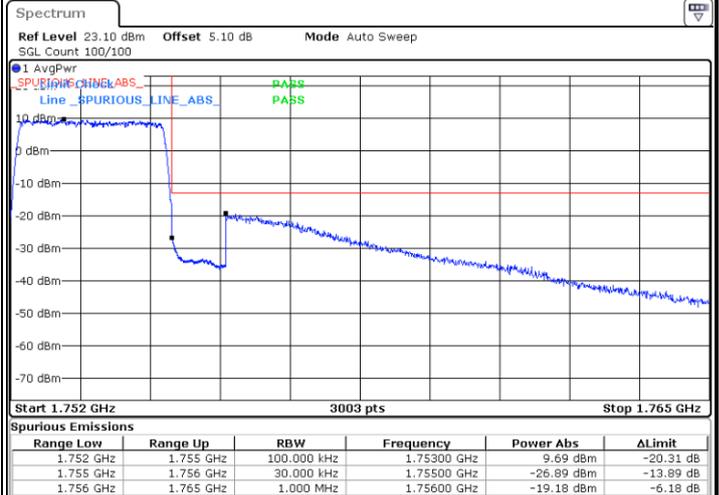
Date: 6.DEC.2020 01:52:07

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:48:26

Highest Band Edge / Full RB

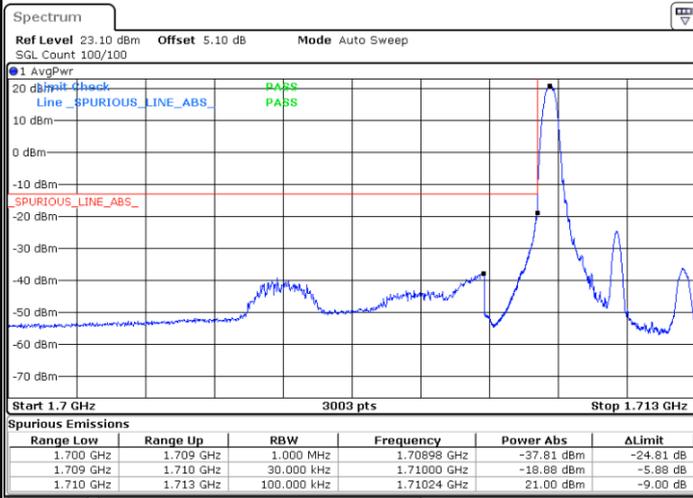


Date: 6.DEC.2020 01:54:27



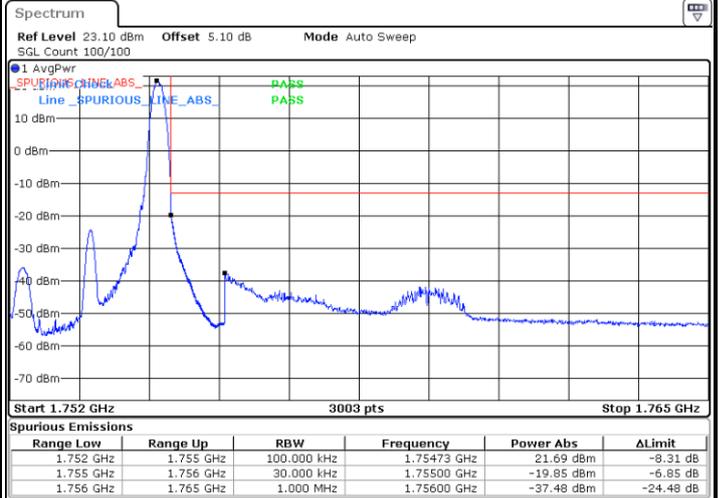
LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 6.DEC.2020 01:46:38

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:52:43

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:47:15

Highest Band Edge / Full RB

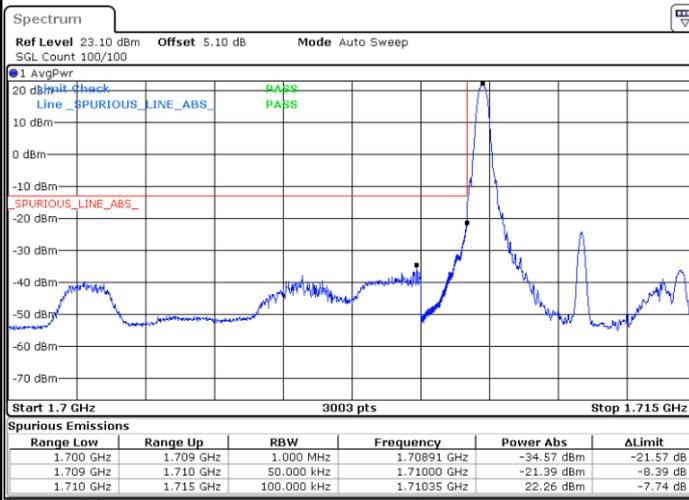


Date: 6.DEC.2020 01:53:47



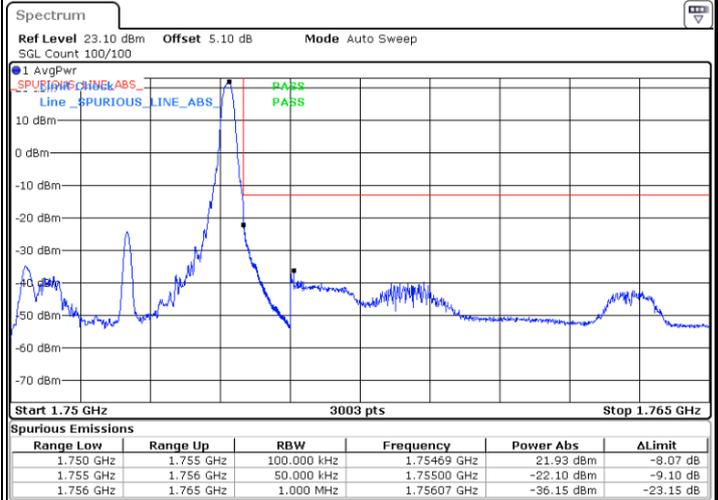
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



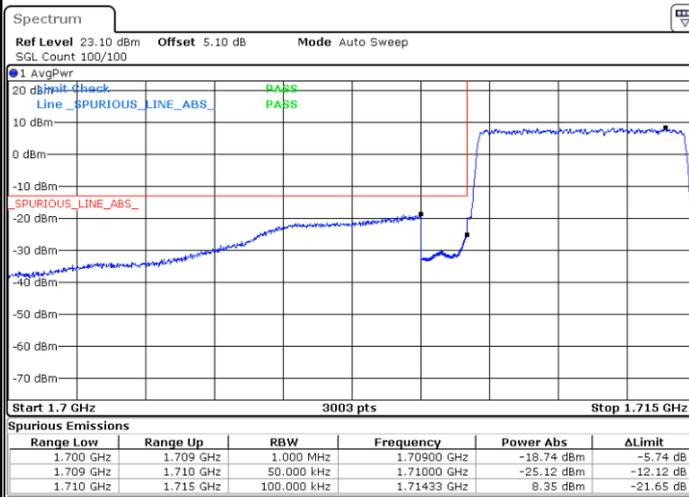
Date: 6.DEC.2020 01:40:52

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:42:06

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:40:26

Highest Band Edge / Full RB

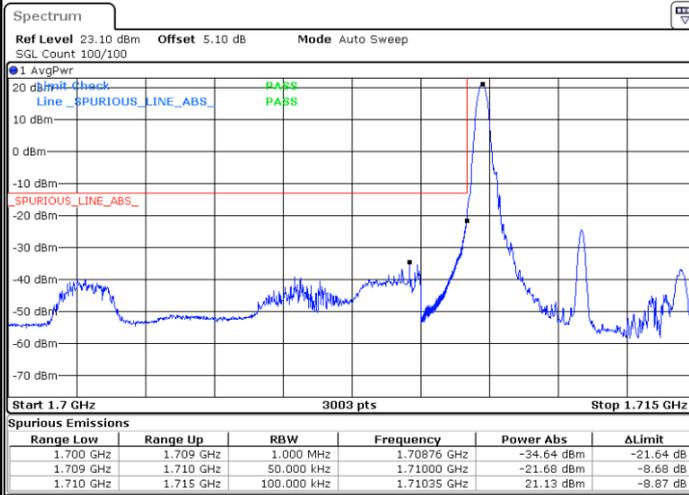


Date: 6.DEC.2020 01:43:55



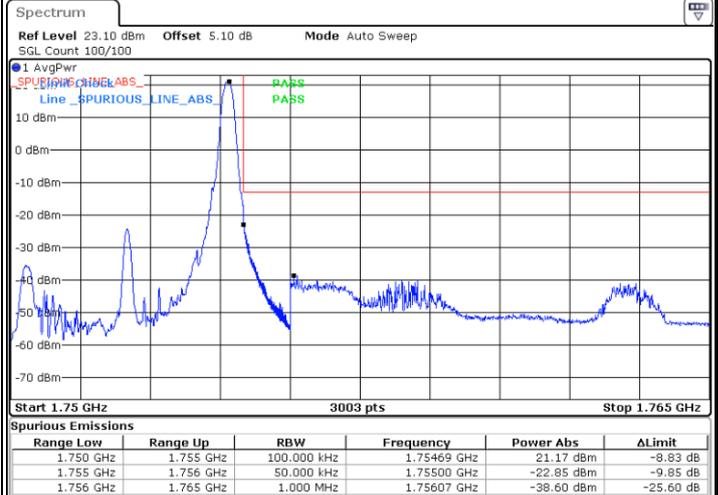
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



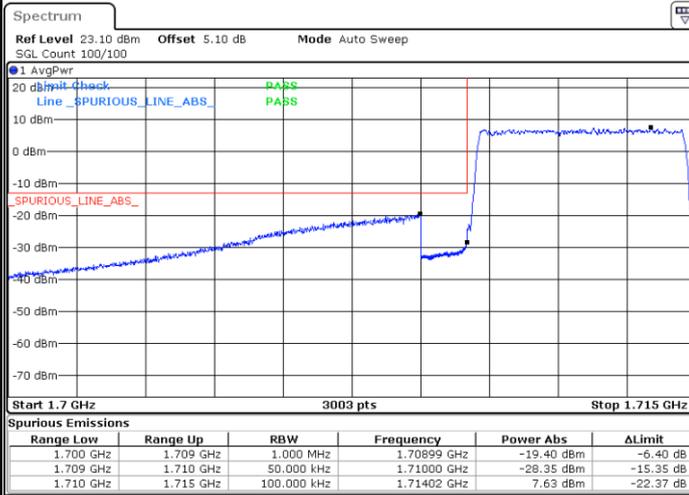
Date: 6.DEC.2020 01:38:50

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:42:27

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:39:57

Highest Band Edge / Full RB

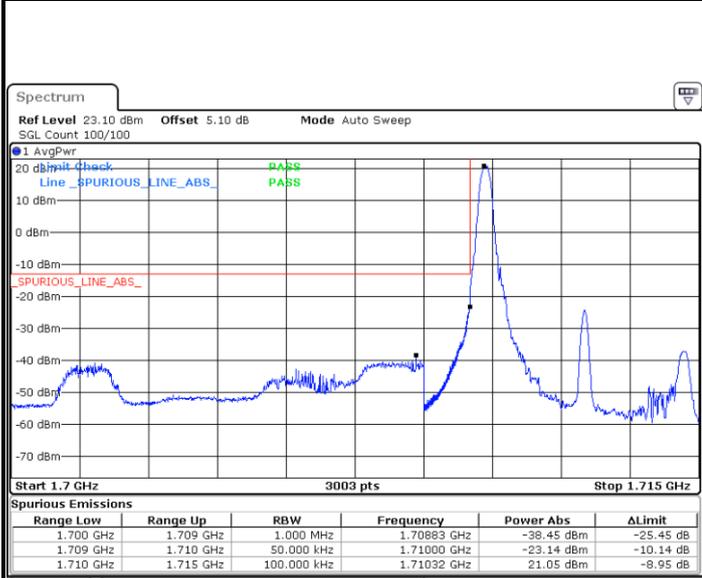


Date: 6.DEC.2020 01:43:33



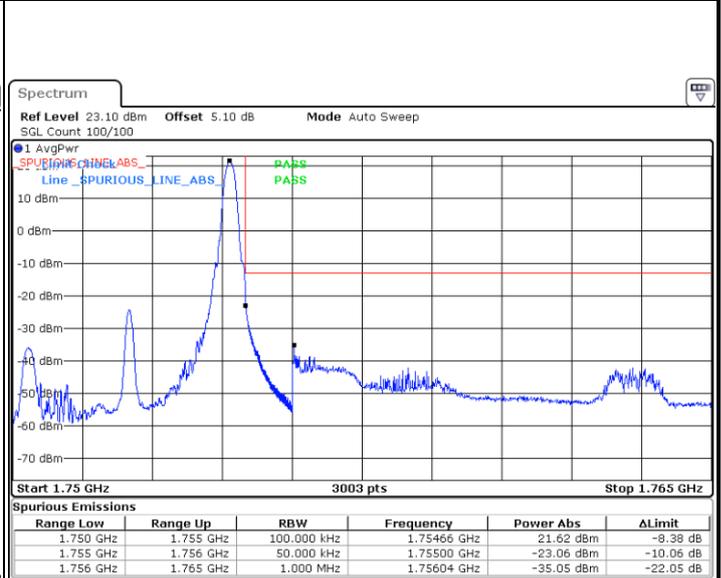
**LTE Band 4 / 5MHz / 64QAM**

**Lowest Band Edge / 1RB**



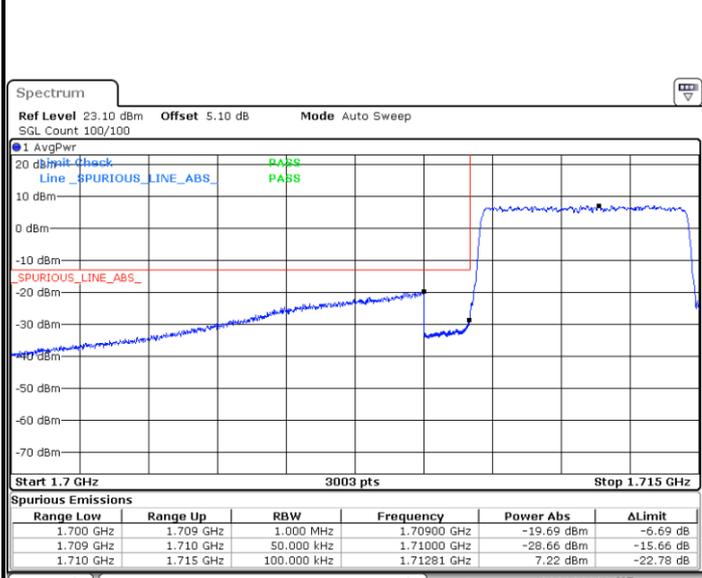
Date: 6.DEC.2020 01:39:12

**Highest Band Edge / 1 RB**



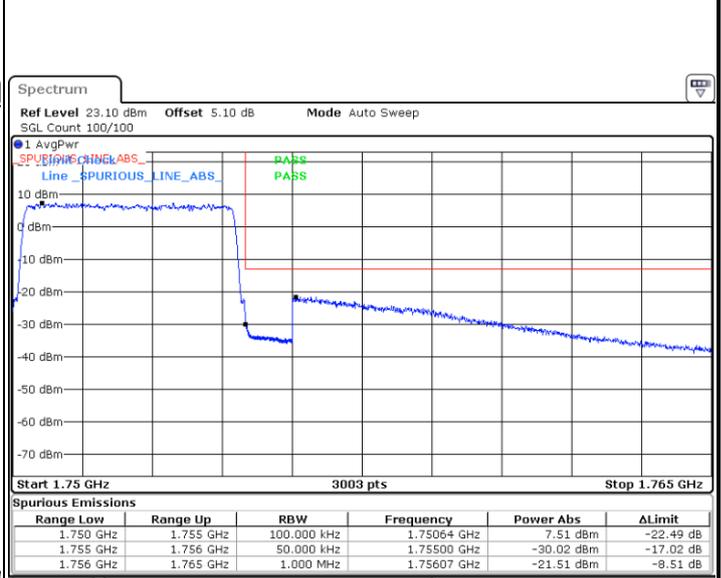
Date: 6.DEC.2020 01:42:48

**Lowest Band Edge / Full RB**



Date: 6.DEC.2020 01:39:34

**Highest Band Edge / Full RB**

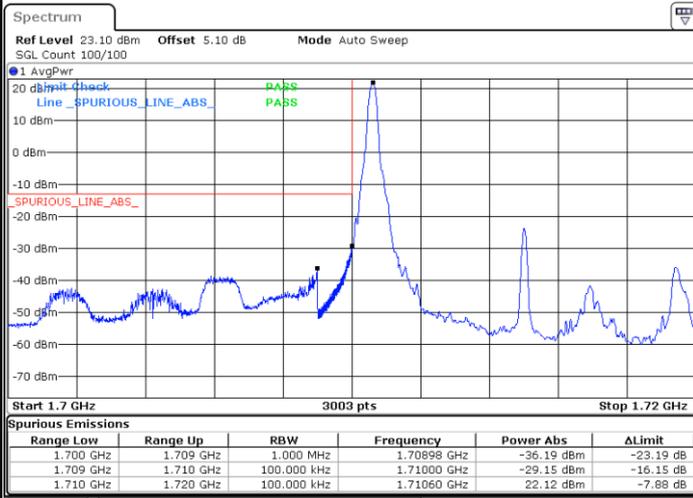


Date: 6.DEC.2020 01:43:11



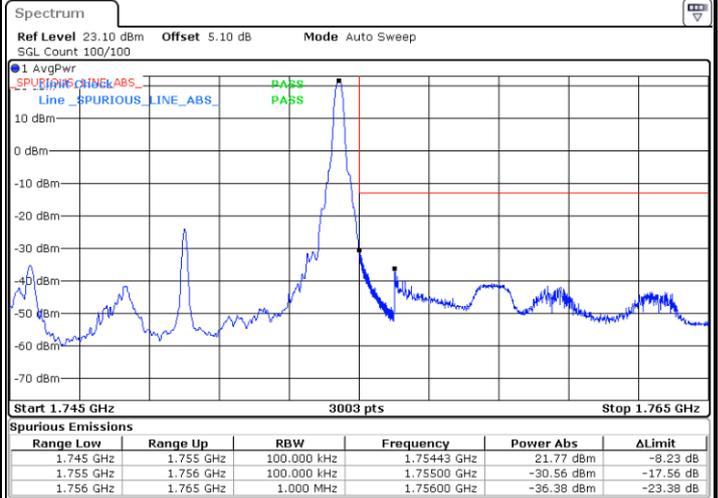
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



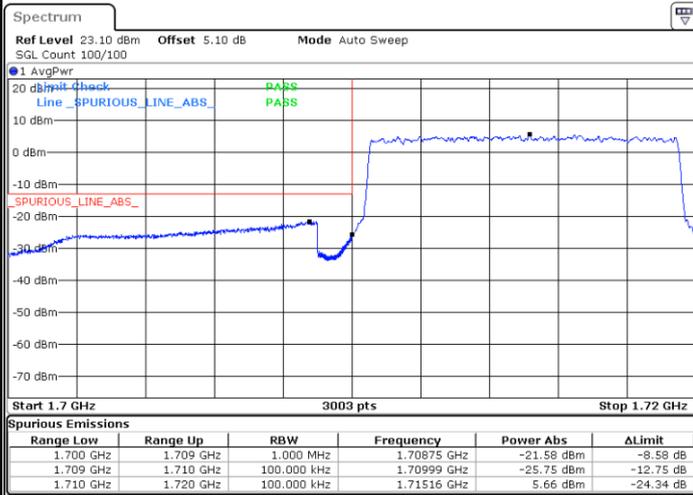
Date: 6.DEC.2020 01:26:42

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:35:32

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:34:30

Highest Band Edge / Full RB

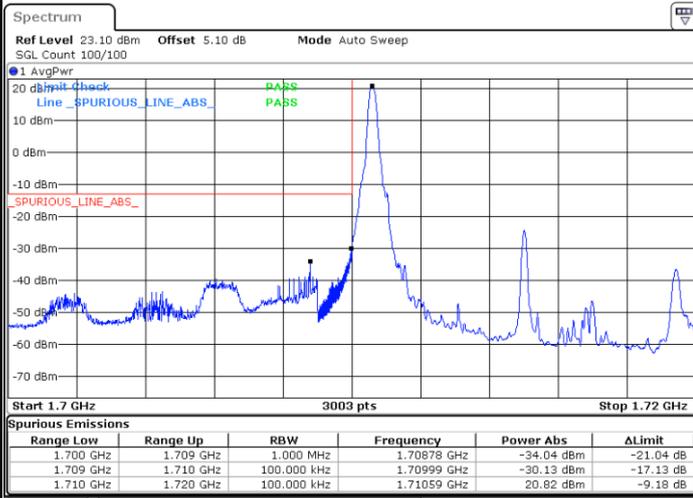


Date: 6.DEC.2020 01:36:53



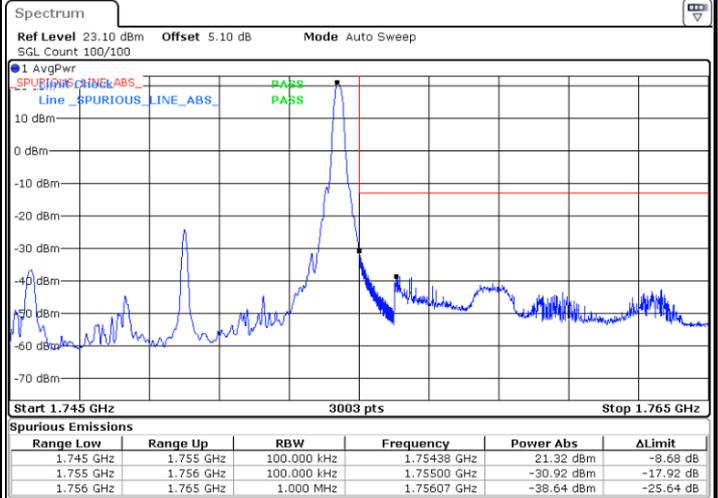
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



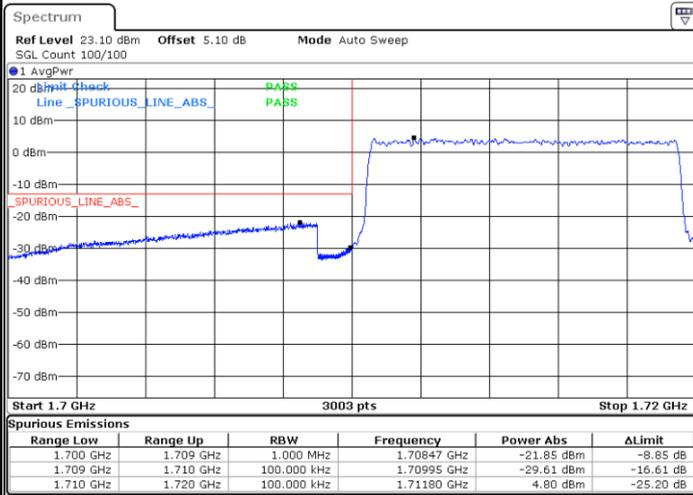
Date: 6.DEC.2020 01:26:57

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:35:49

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:34:15

Highest Band Edge / Full RB

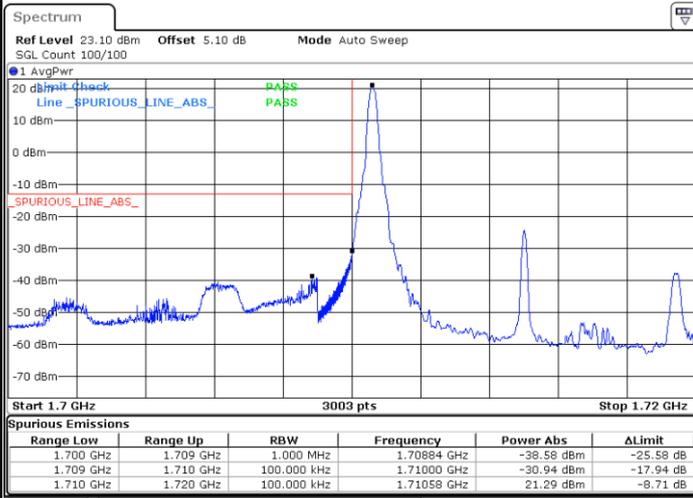


Date: 6.DEC.2020 01:36:38



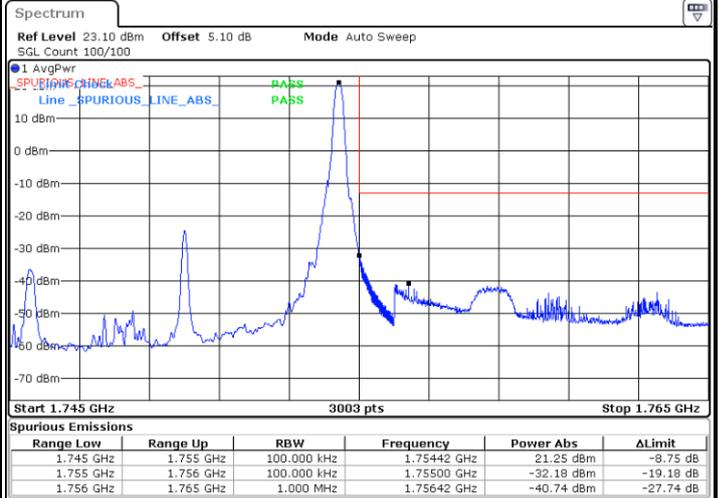
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



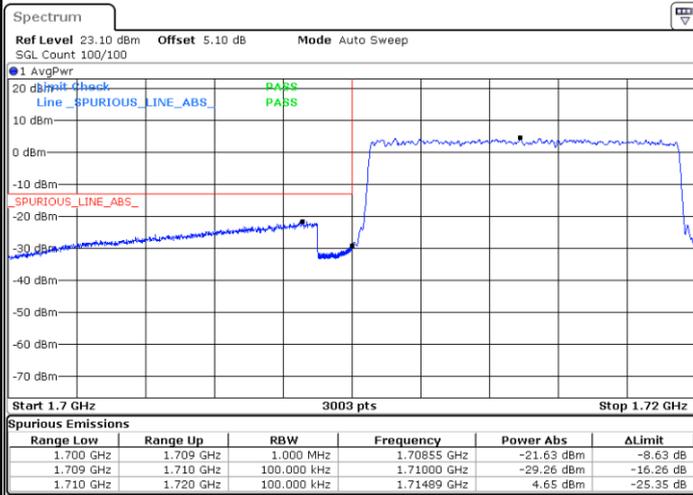
Date: 6.DEC.2020 01:27:11

Highest Band Edge / 1 RB



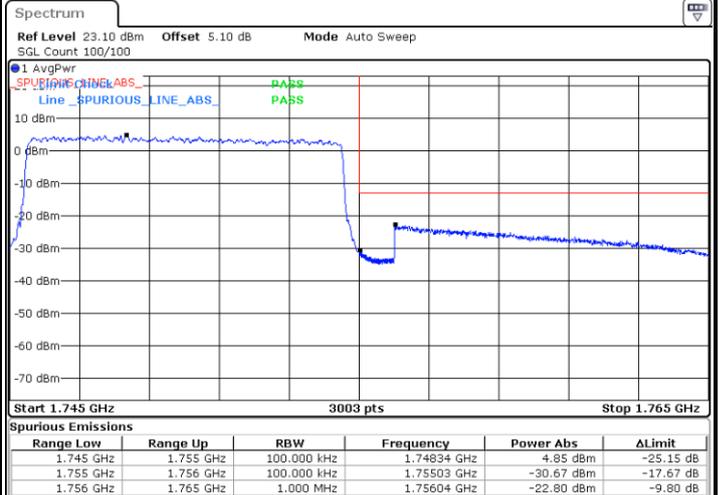
Date: 6.DEC.2020 01:36:06

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:33:39

Highest Band Edge / Full RB

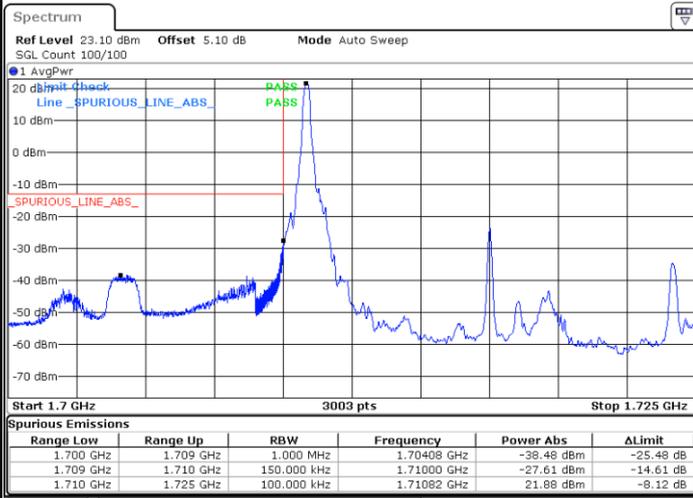


Date: 6.DEC.2020 01:36:21



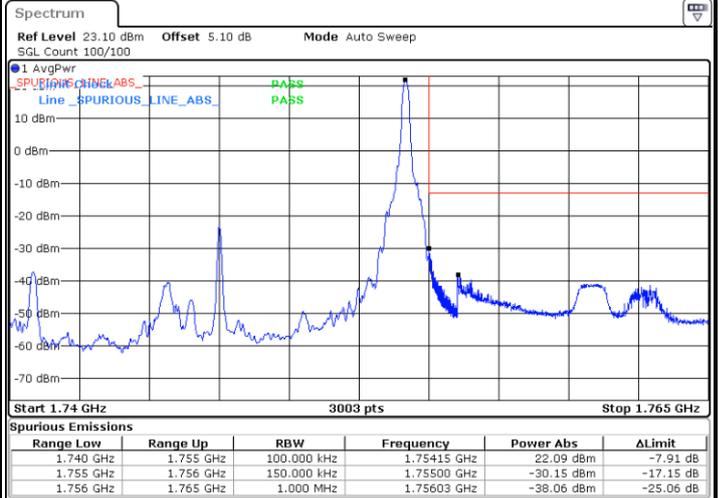
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



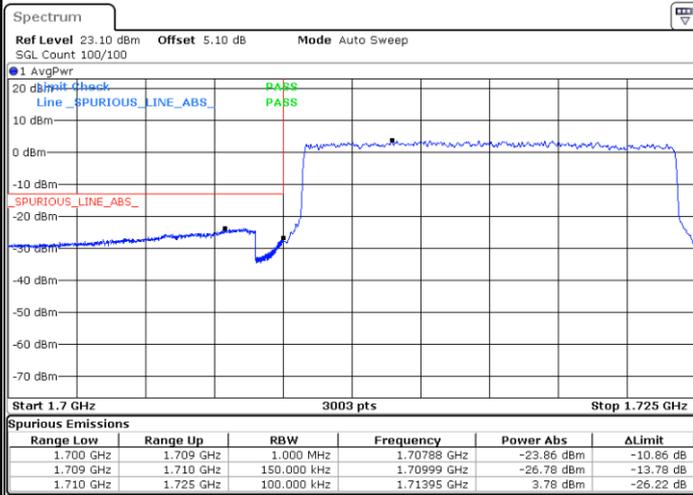
Date: 6.DEC.2020 01:21:00

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:23:28

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:22:12

Highest Band Edge / Full RB

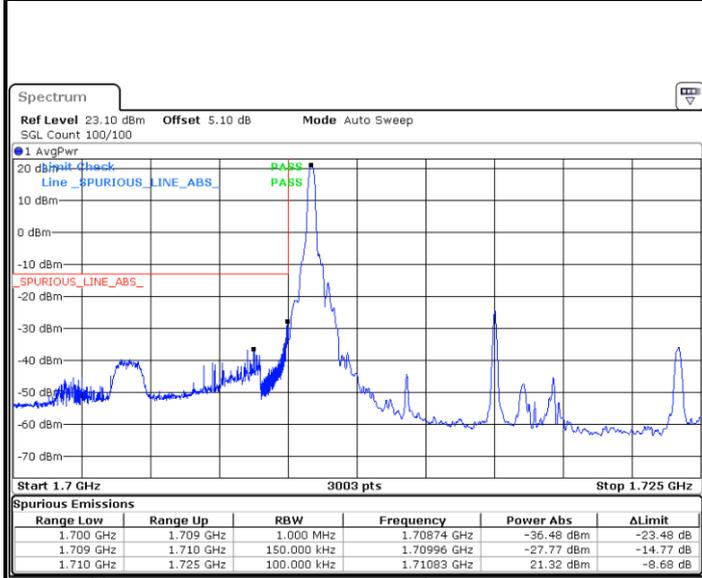


Date: 6.DEC.2020 01:24:40



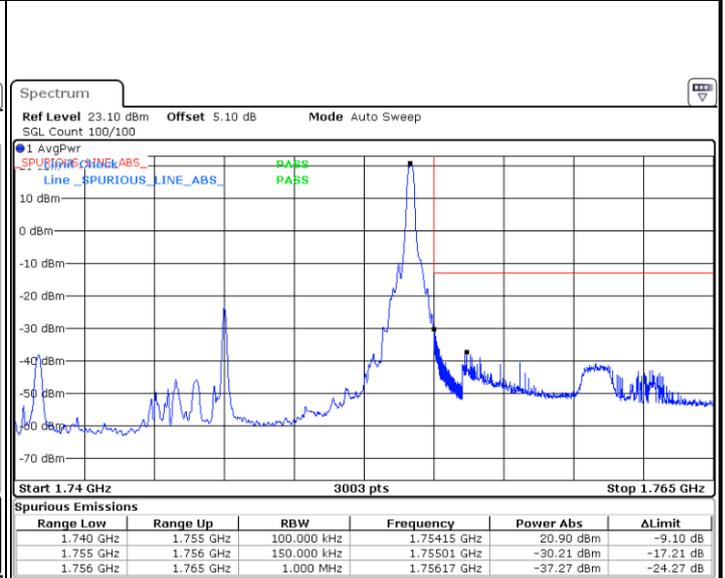
**LTE Band 4 / 15MHz / 16QAM**

**Lowest Band Edge / 1 RB**



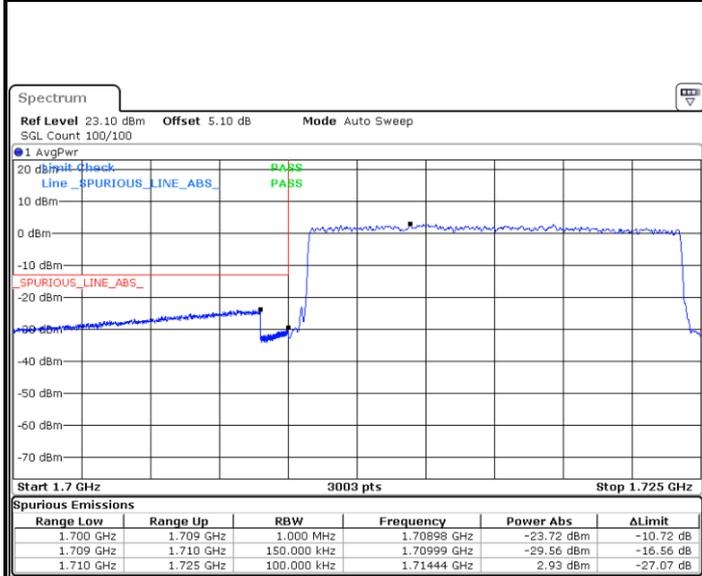
Date: 6.DEC.2020 01:21:14

**Highest Band Edge / 1 RB**



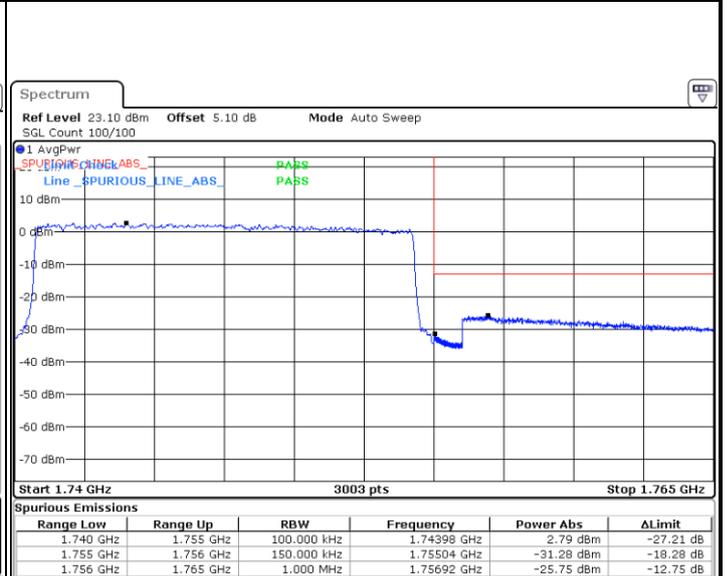
Date: 6.DEC.2020 01:23:41

**Lowest Band Edge / Full RB**



Date: 6.DEC.2020 01:21:58

**Highest Band Edge / Full RB**

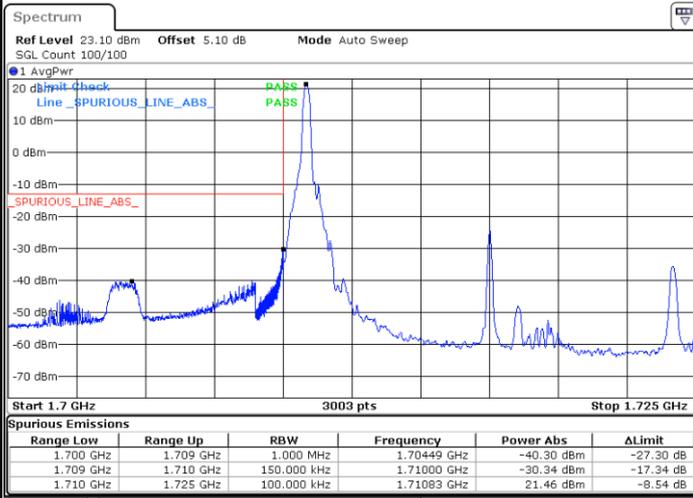


Date: 6.DEC.2020 01:24:26



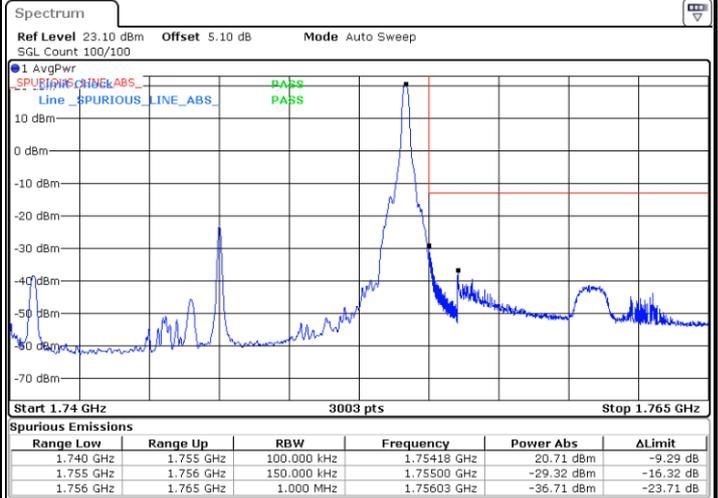
LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



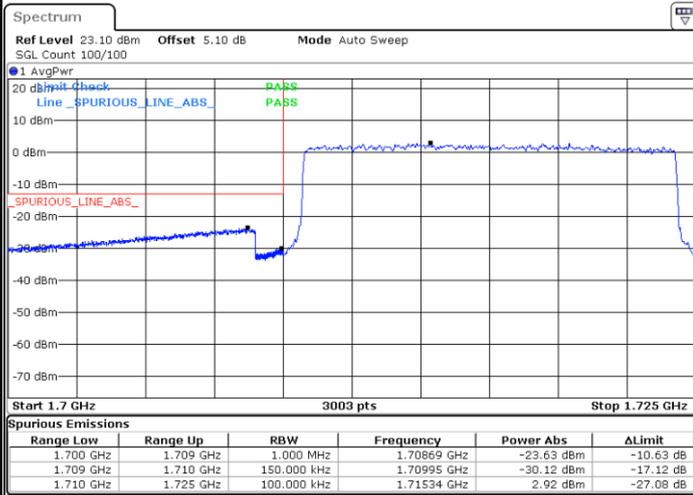
Date: 6.DEC.2020 01:21:30

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:23:55

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:21:44

Highest Band Edge / Full RB

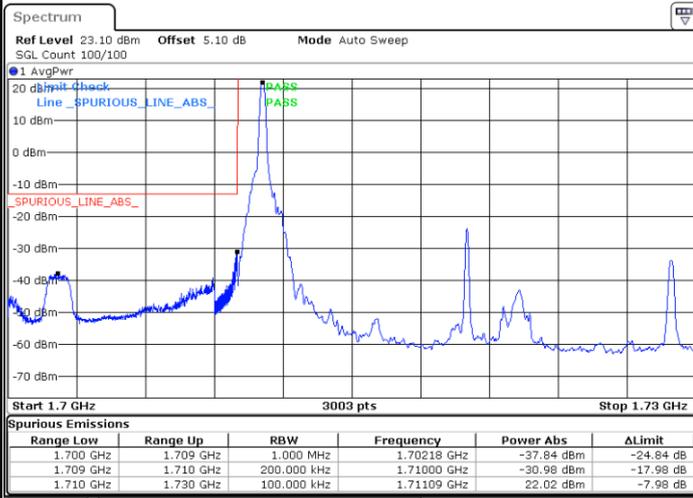


Date: 6.DEC.2020 01:24:12



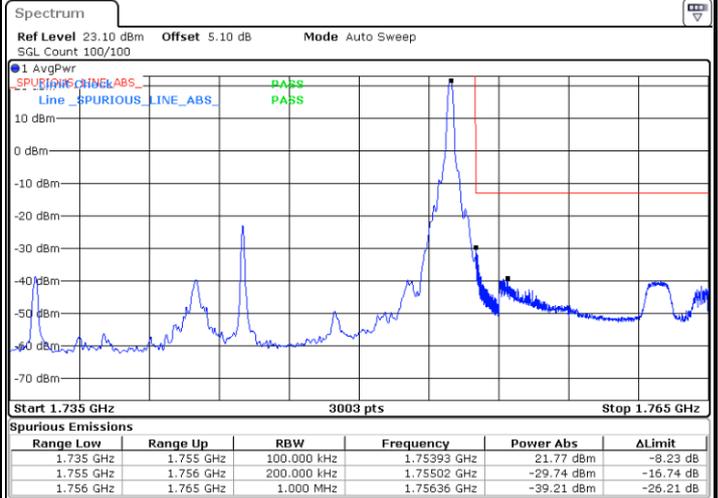
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



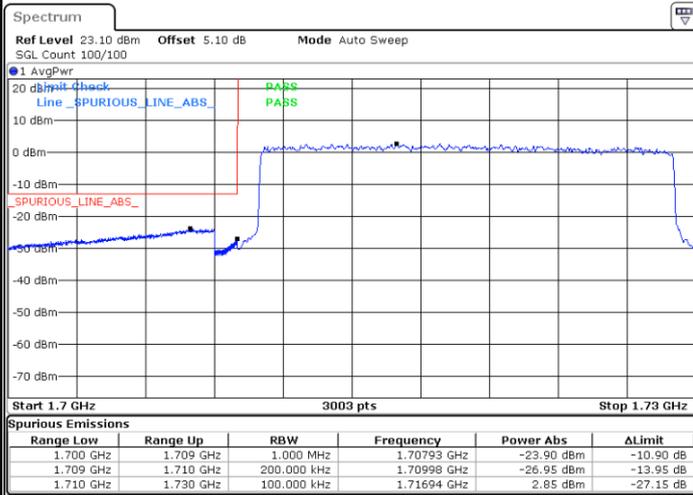
Date: 6.DEC.2020 01:12:29

Highest Band Edge / 1 RB



Date: 6.DEC.2020 01:17:46

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:13:22

Highest Band Edge / Full RB

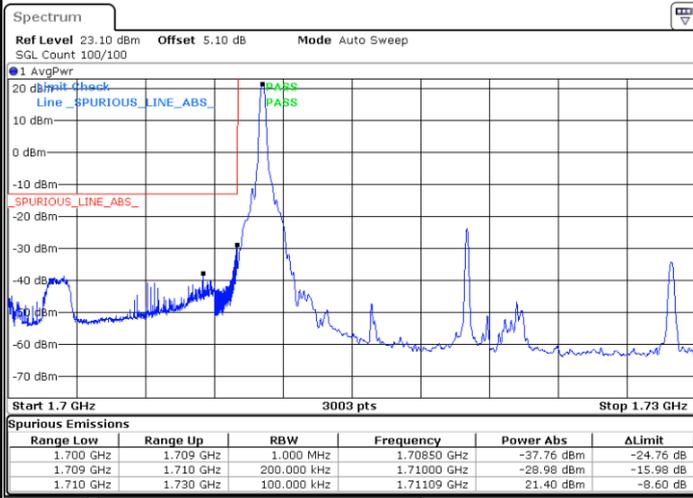


Date: 6.DEC.2020 01:16:45



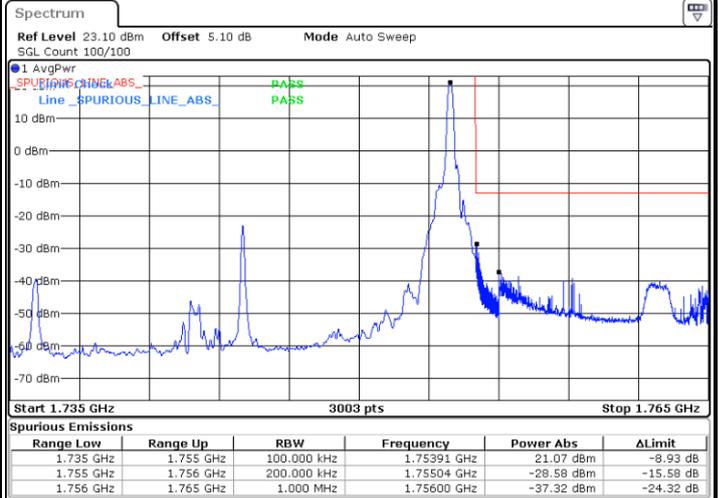
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



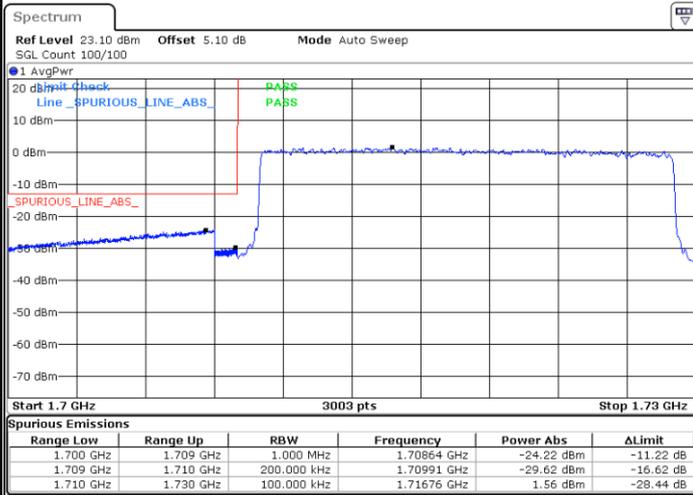
Date: 6.DEC.2020 01:12:50

Highest Band Edge / 1 RB



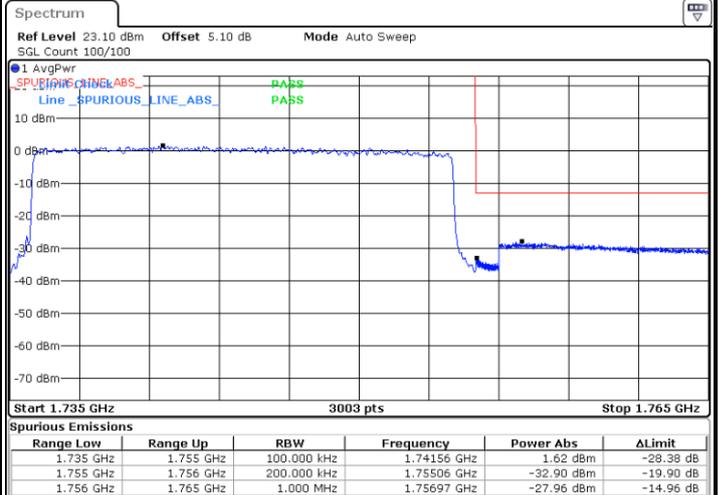
Date: 6.DEC.2020 01:18:05

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:13:37

Highest Band Edge / Full RB

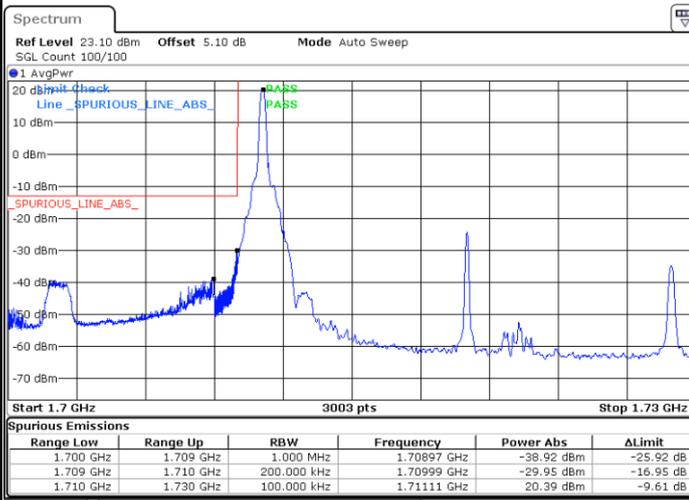


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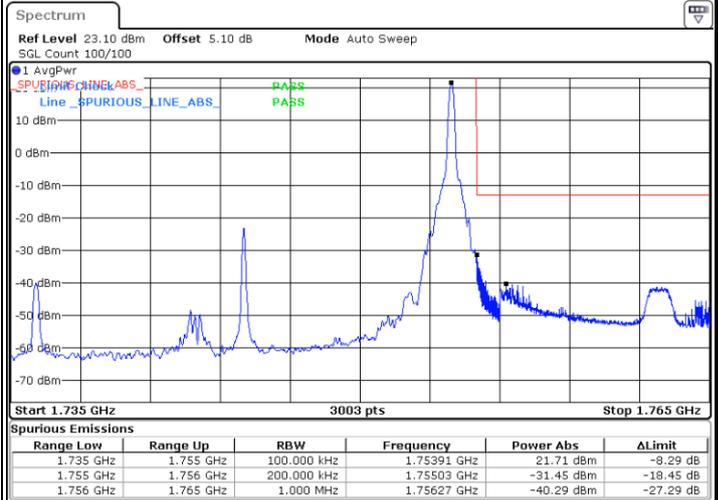
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



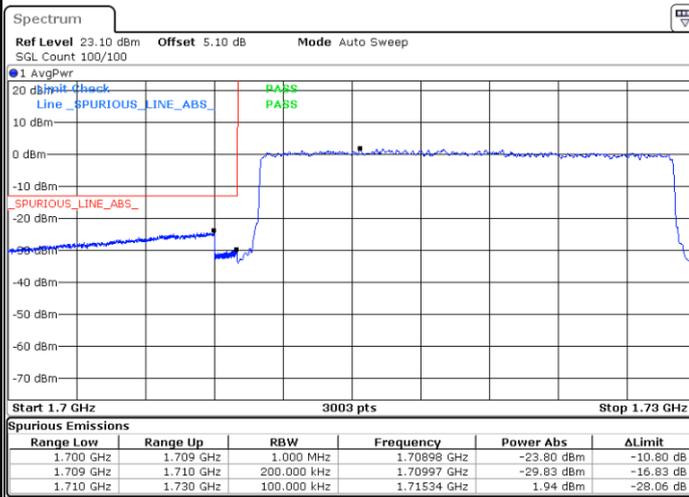
Date: 6.DEC.2020 01:13:04

Highest Band Edge / 1 RB



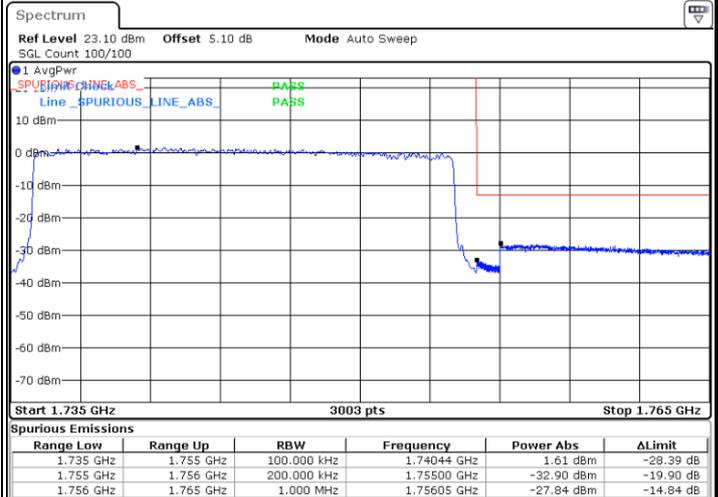
Date: 6.DEC.2020 01:18:18

Lowest Band Edge / Full RB



Date: 6.DEC.2020 01:13:51

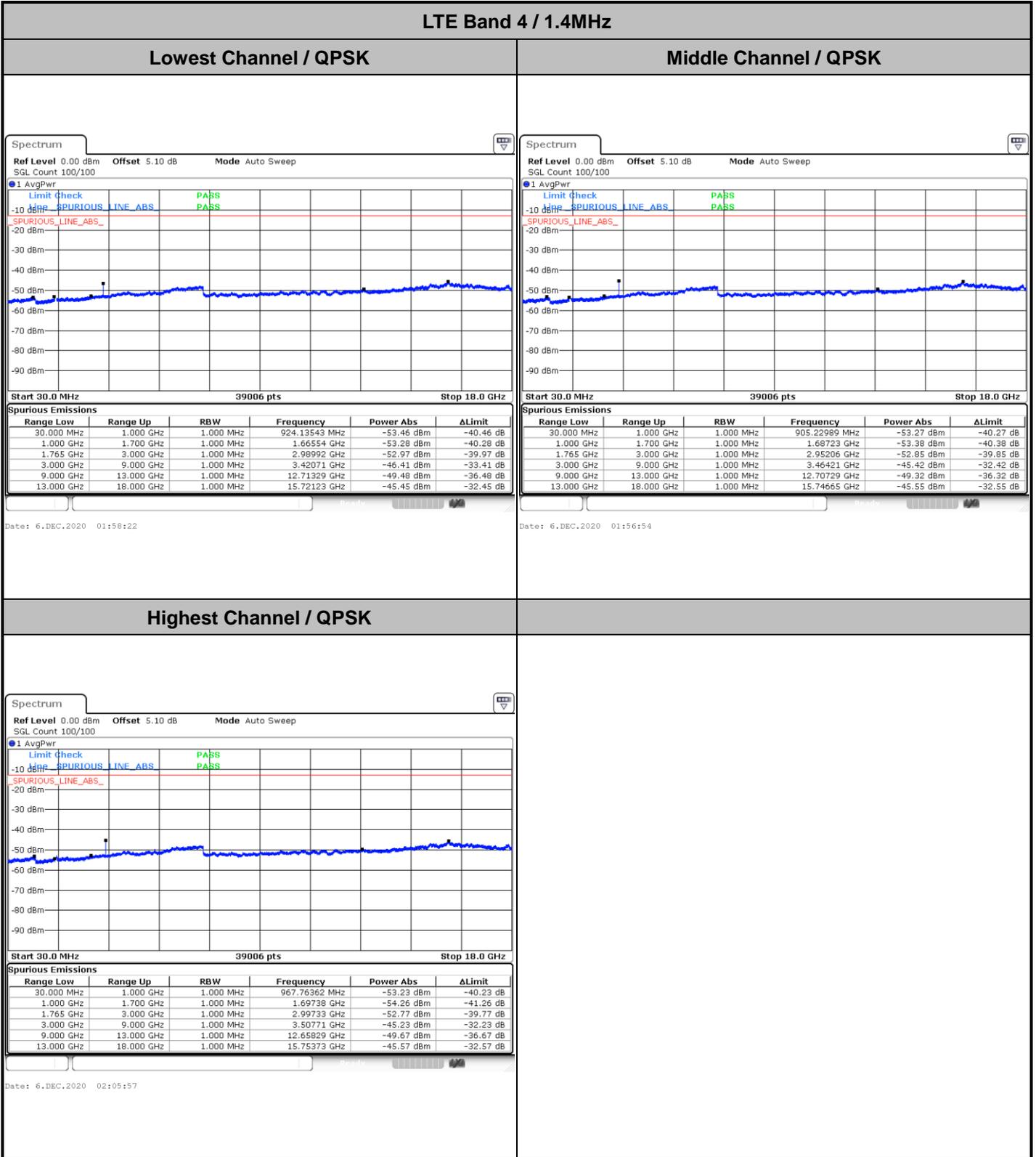
Highest Band Edge / Full RB



Date: 6.DEC.2020 01:16:18



# Conducted Spurious Emission

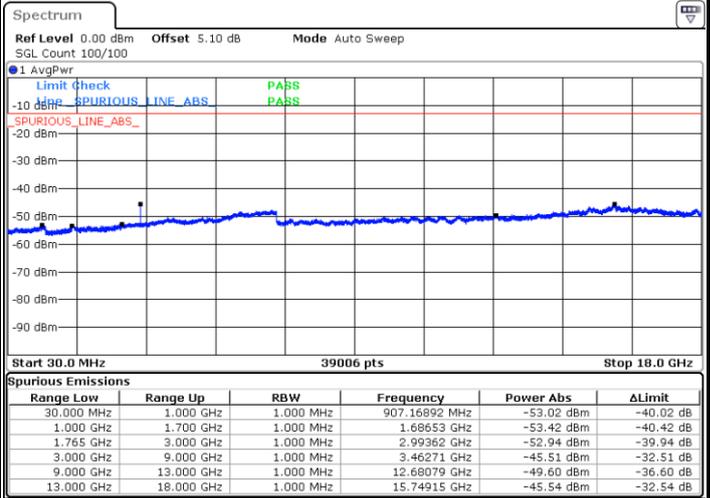
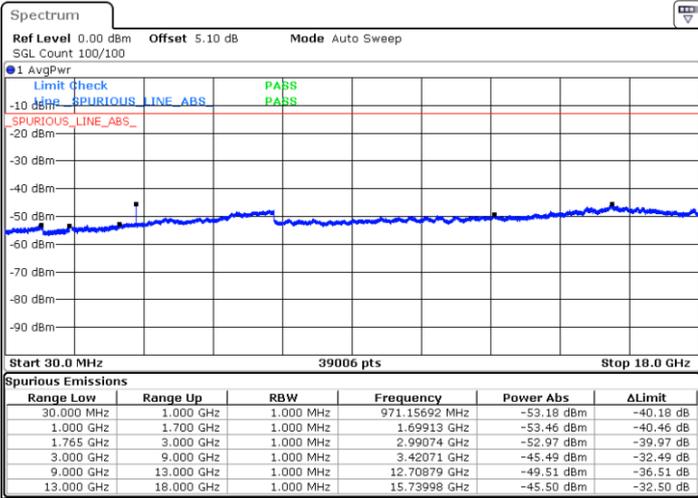




LTE Band 4 / 3MHz

Lowest Channel / QPSK

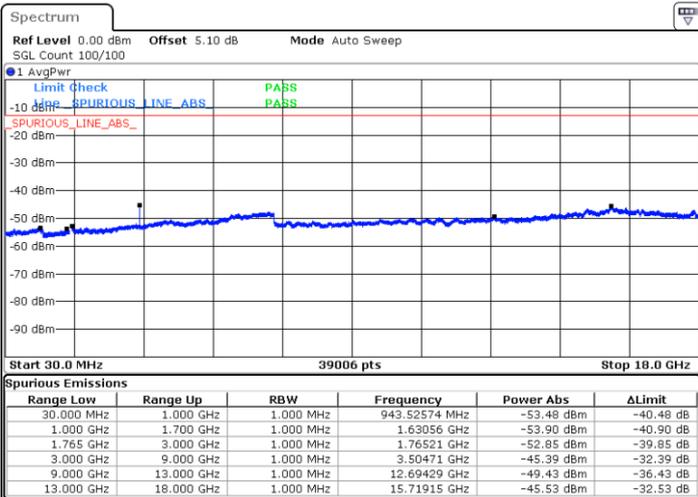
Middle Channel / QPSK



Date: 6.DEC.2020 01:45:25

Date: 6.DEC.2020 01:44:42

Highest Channel / QPSK



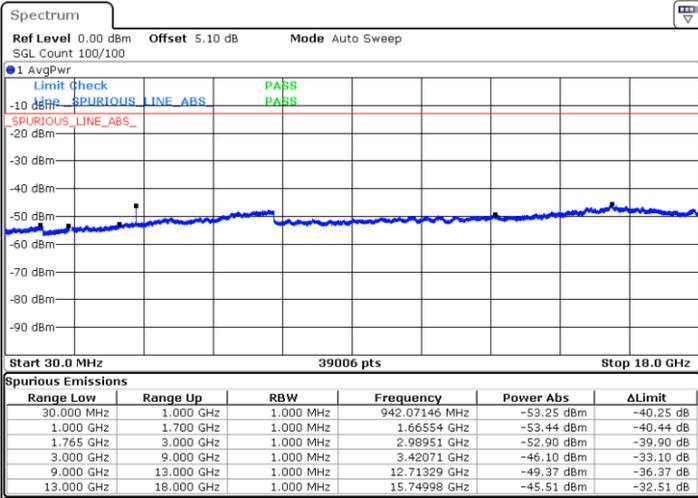
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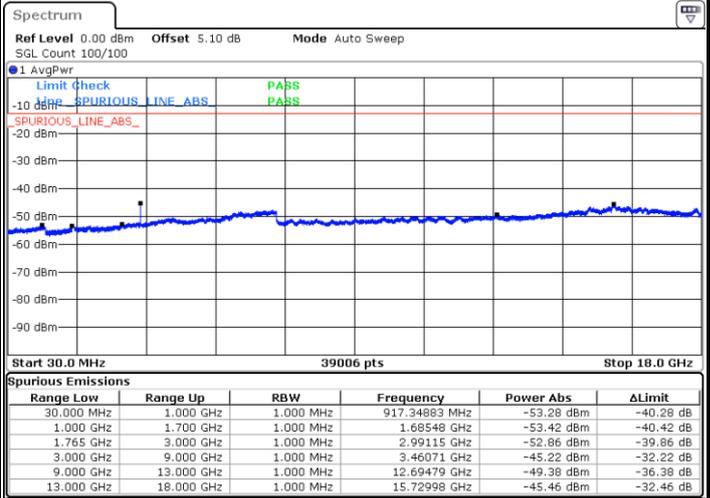
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

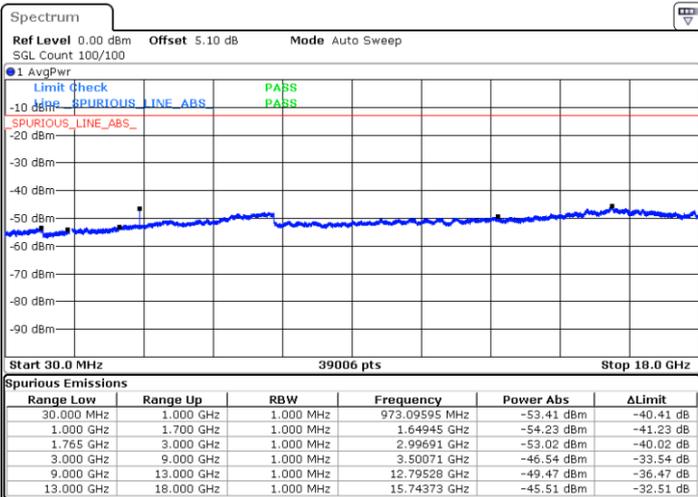


Date: 6.DEC.2020 01:38:27



Date: 6.DEC.2020 01:37:39

Highest Channel / QPSK

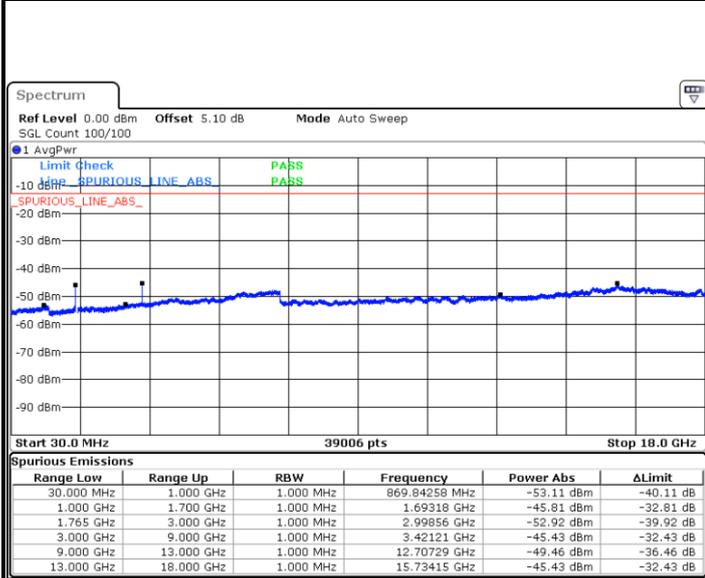


Date: 6.DEC.2020 01:41:37



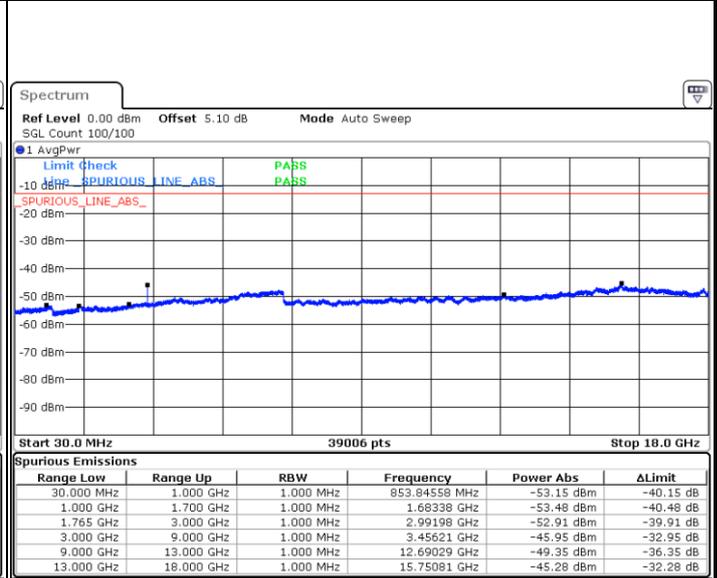
LTE Band 4 / 10MHz

Lowest Channel / QPSK



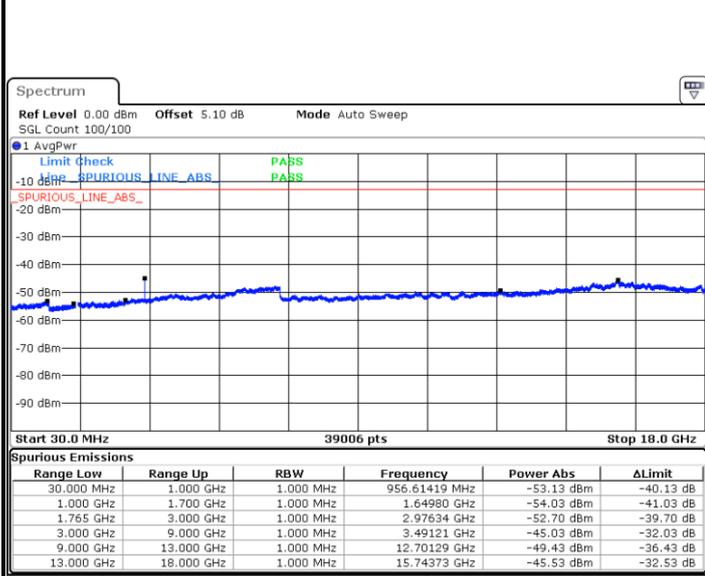
Date: 6.DEC.2020 01:26:23

Middle Channel / QPSK



Date: 6.DEC.2020 01:25:32

Highest Channel / QPSK



Date: 6.DEC.2020 01:35:16

