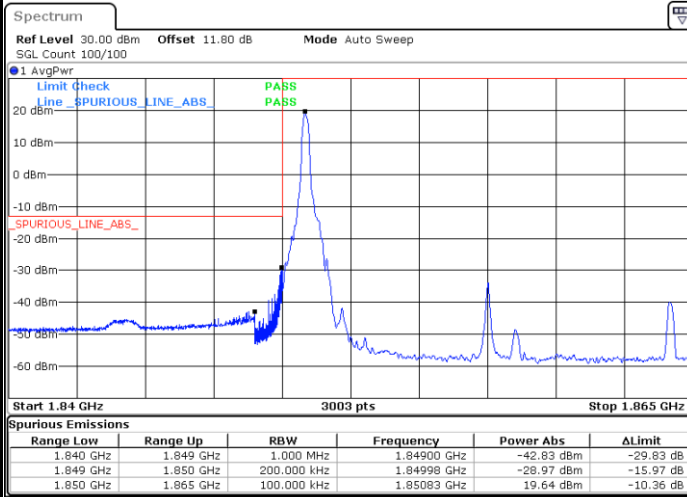




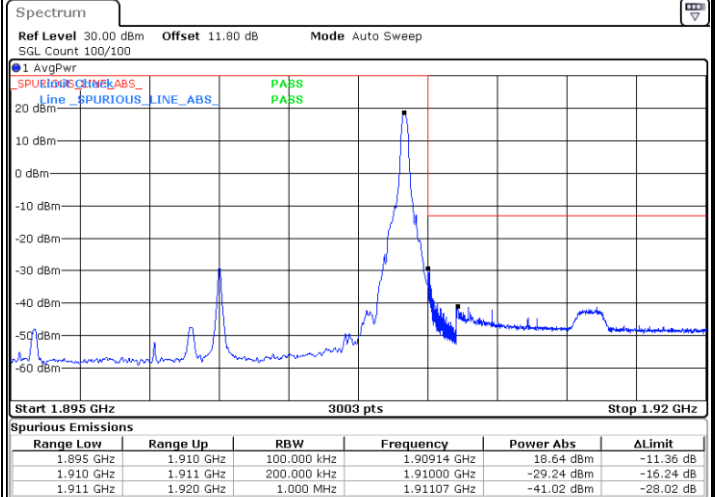
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



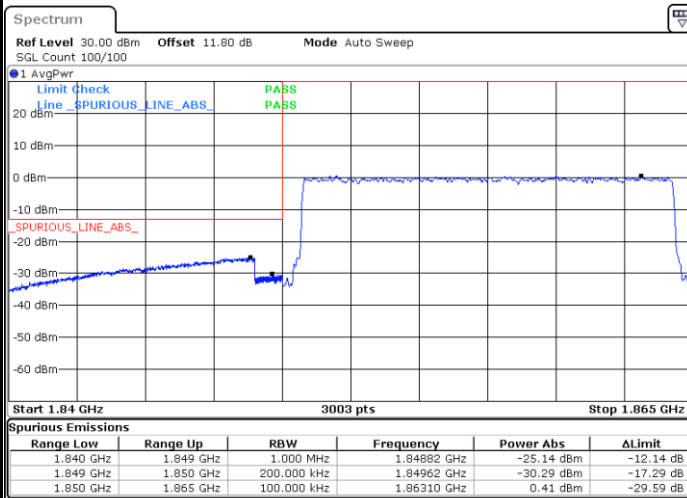
Date: 2.FEB.2021 10:17:18

Highest Band Edge / 1 RB



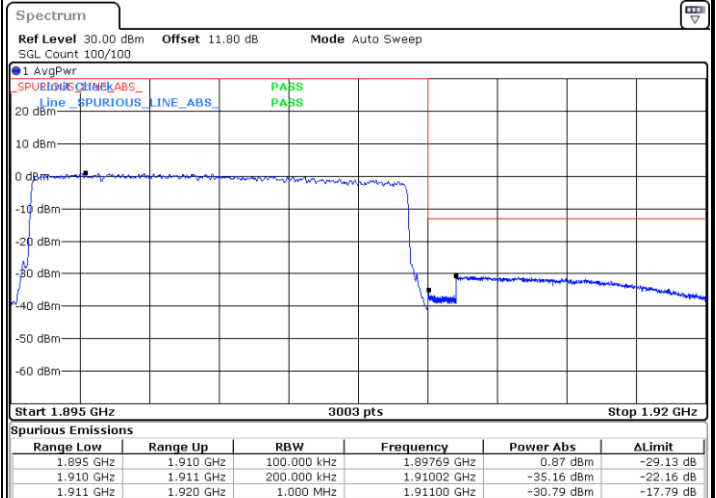
Date: 2.FEB.2021 10:18:50

Lowest Band Edge / Full RB



Date: 2.FEB.2021 10:17:51

Highest Band Edge / Full RB

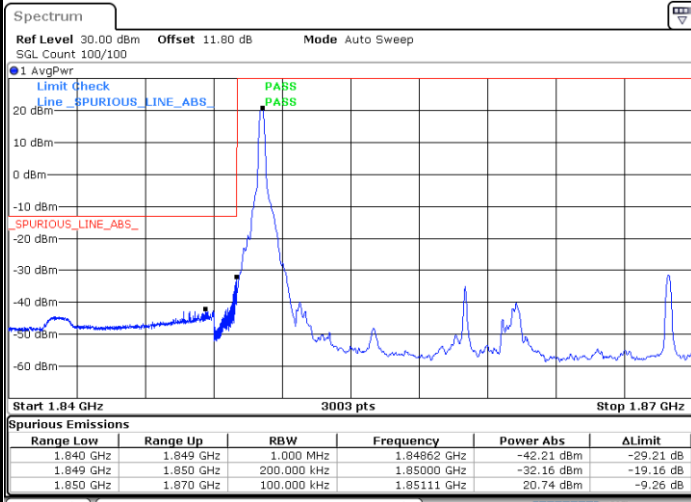


Date: 2.FEB.2021 10:19:23



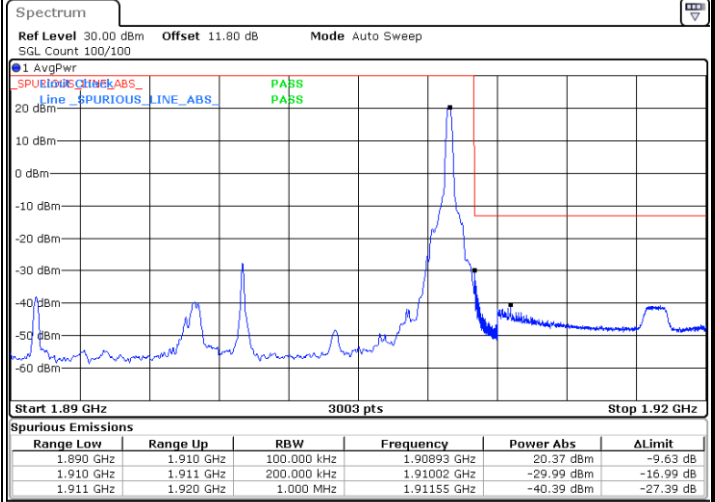
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



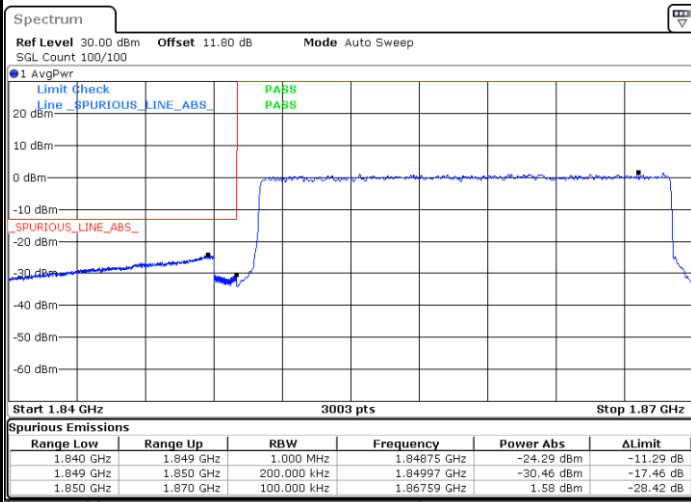
Date: 2.FEB.2021 10:01:02

Highest Band Edge / 1 RB



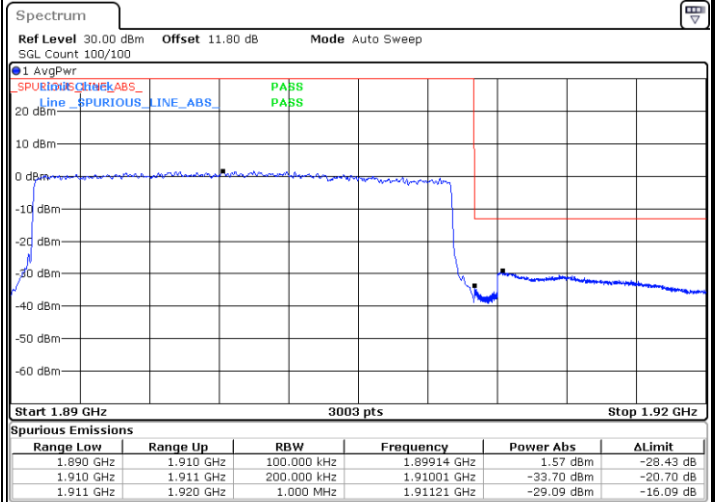
Date: 2.FEB.2021 10:06:12

Lowest Band Edge / Full RB



Date: 2.FEB.2021 10:02:07

Highest Band Edge / Full RB

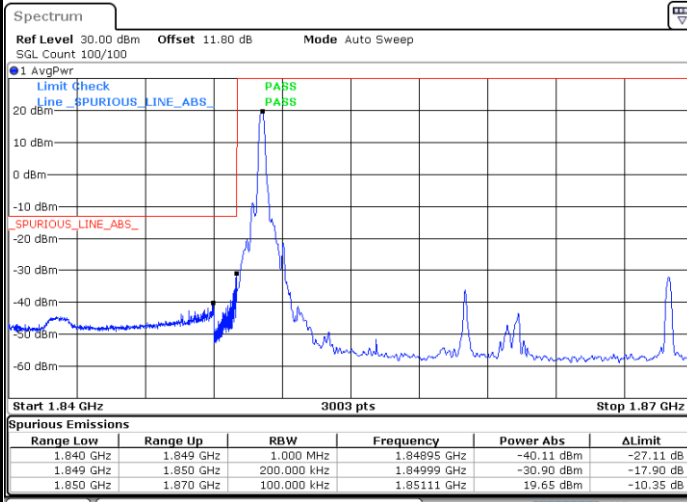


Date: 2.FEB.2021 10:07:17



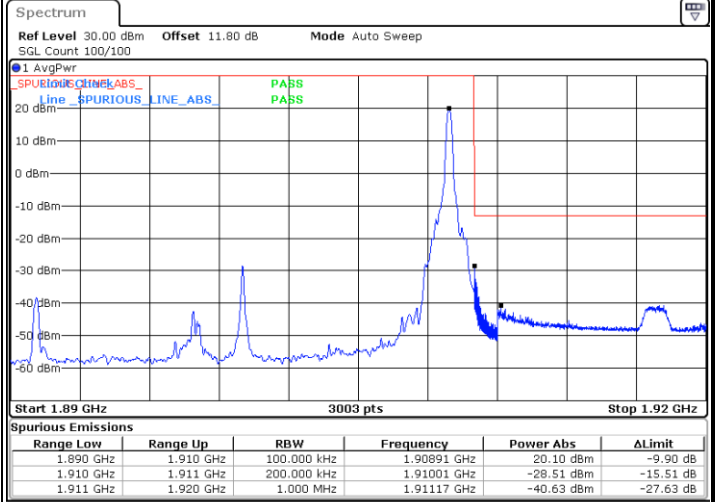
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



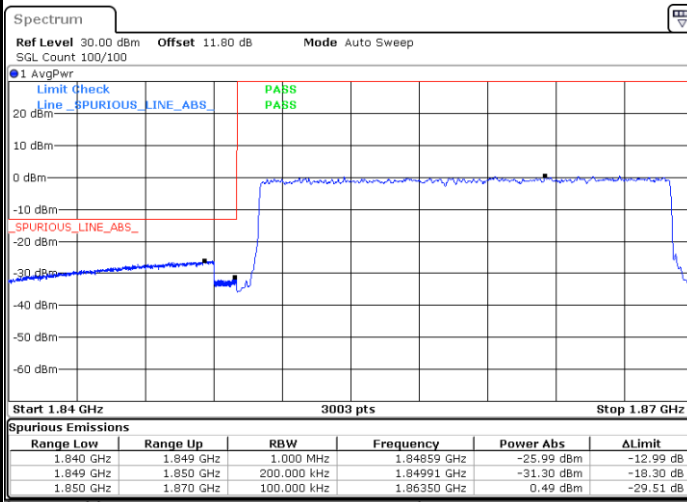
Date: 2.FEB.2021 10:01:34

Highest Band Edge / 1 RB



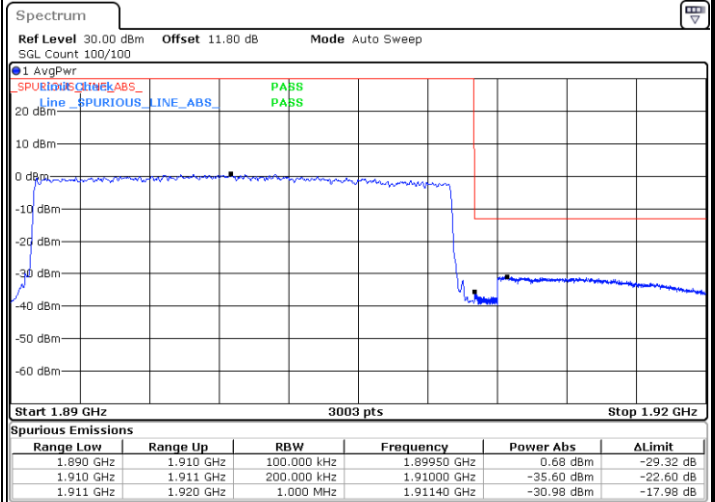
Date: 2.FEB.2021 10:06:44

Lowest Band Edge / Full RB



Date: 2.FEB.2021 10:02:39

Highest Band Edge / Full RB

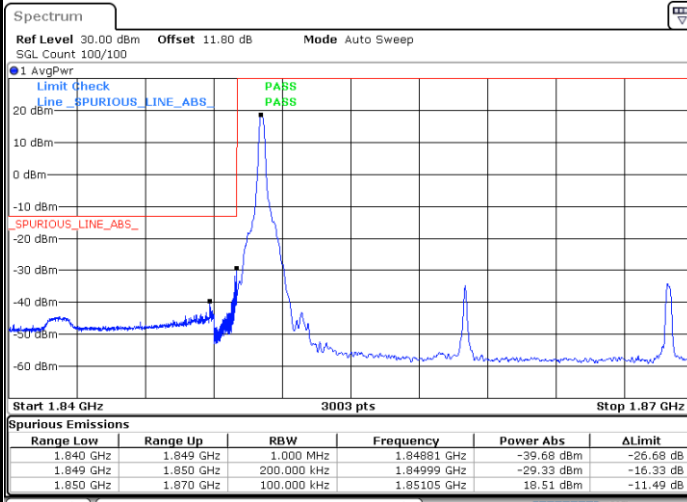


Date: 2.FEB.2021 10:07:49



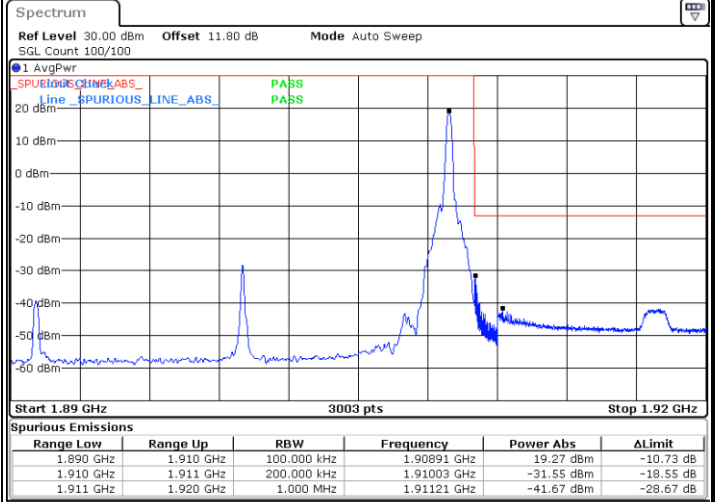
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



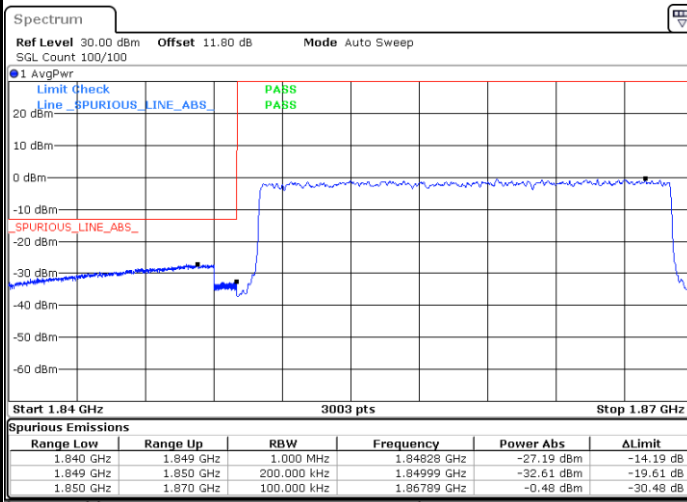
Date: 2.FEB.2021 10:19:56

Highest Band Edge / 1 RB



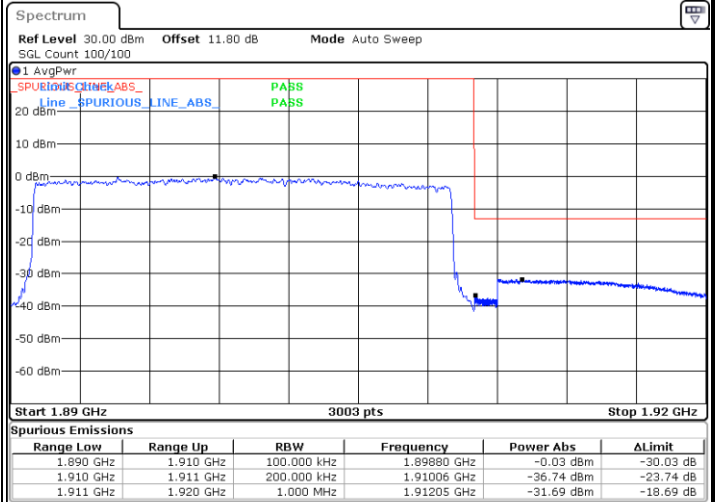
Date: 2.FEB.2021 10:21:28

Lowest Band Edge / Full RB



Date: 2.FEB.2021 10:20:28

Highest Band Edge / Full RB



Date: 2.FEB.2021 10:22:00

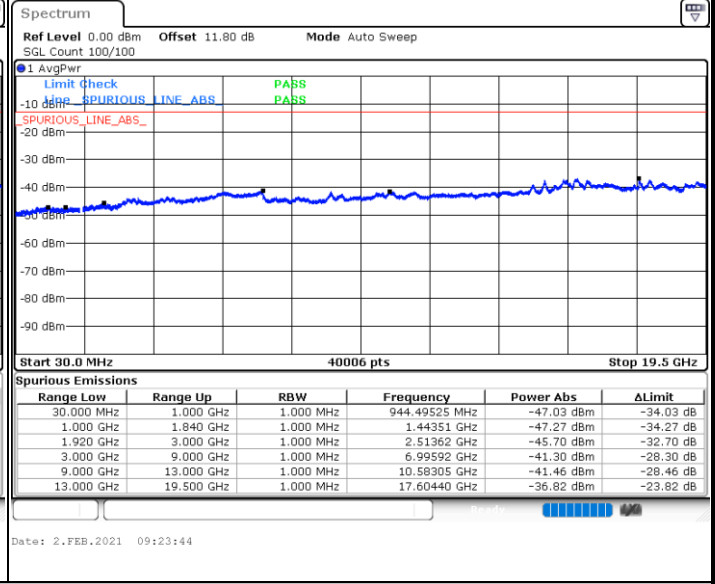
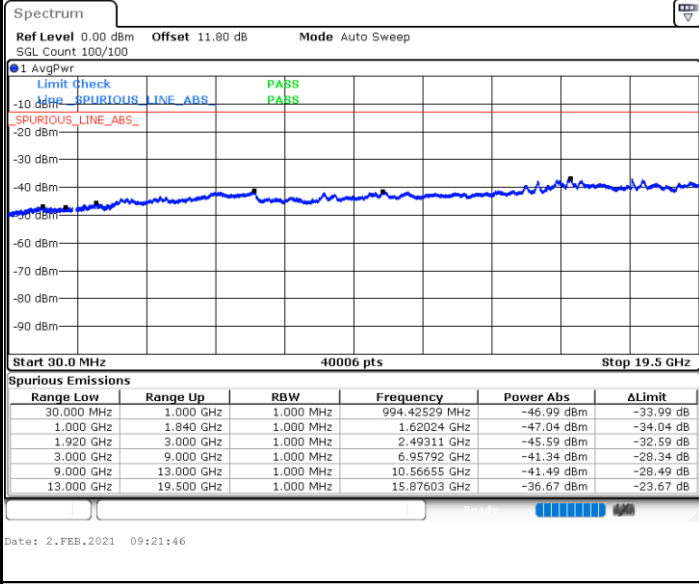


# Conducted Spurious Emission

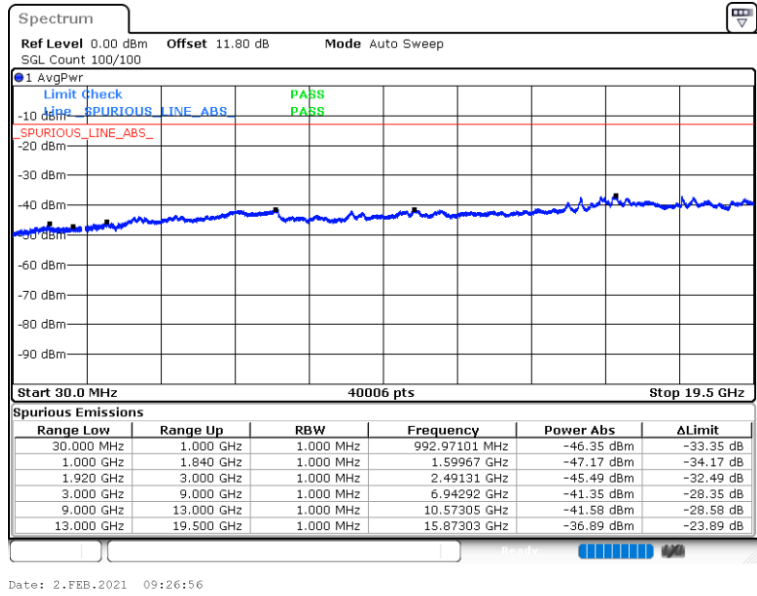
## LTE Band 2 / 1.4MHz

### Lowest Channel / QPSK

### Middle Channel / QPSK



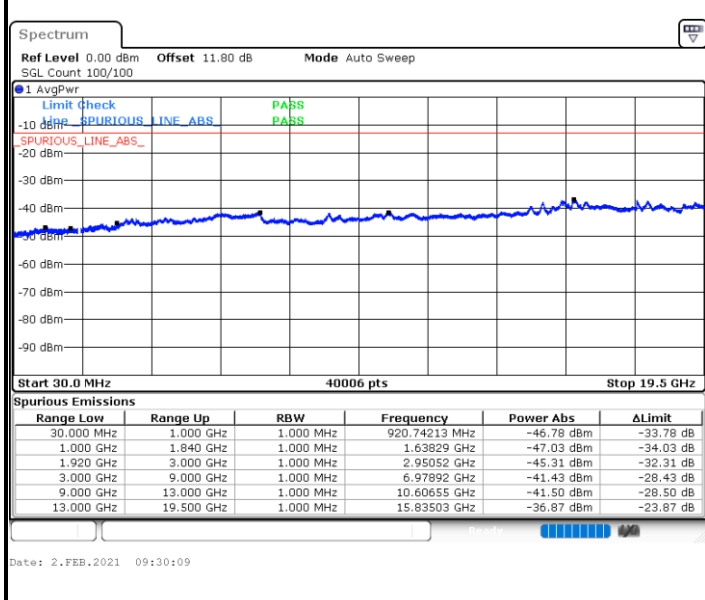
### Highest Channel / QPSK



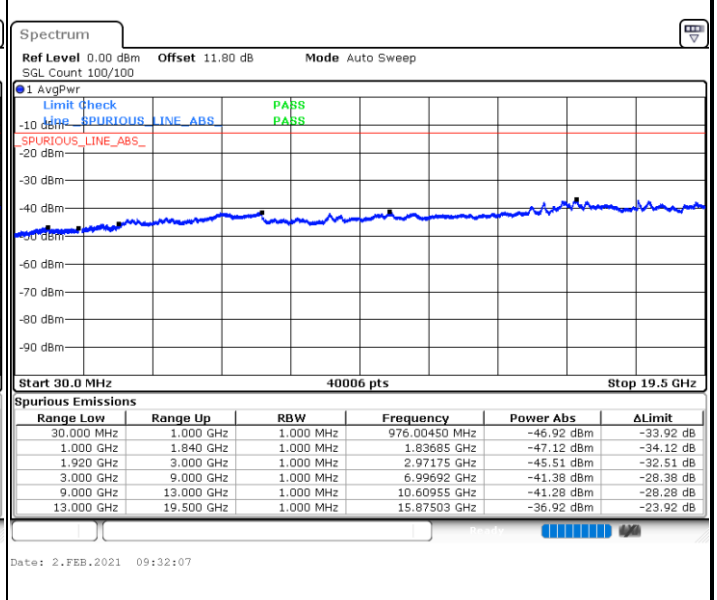


**LTE Band 2 / 3MHz**

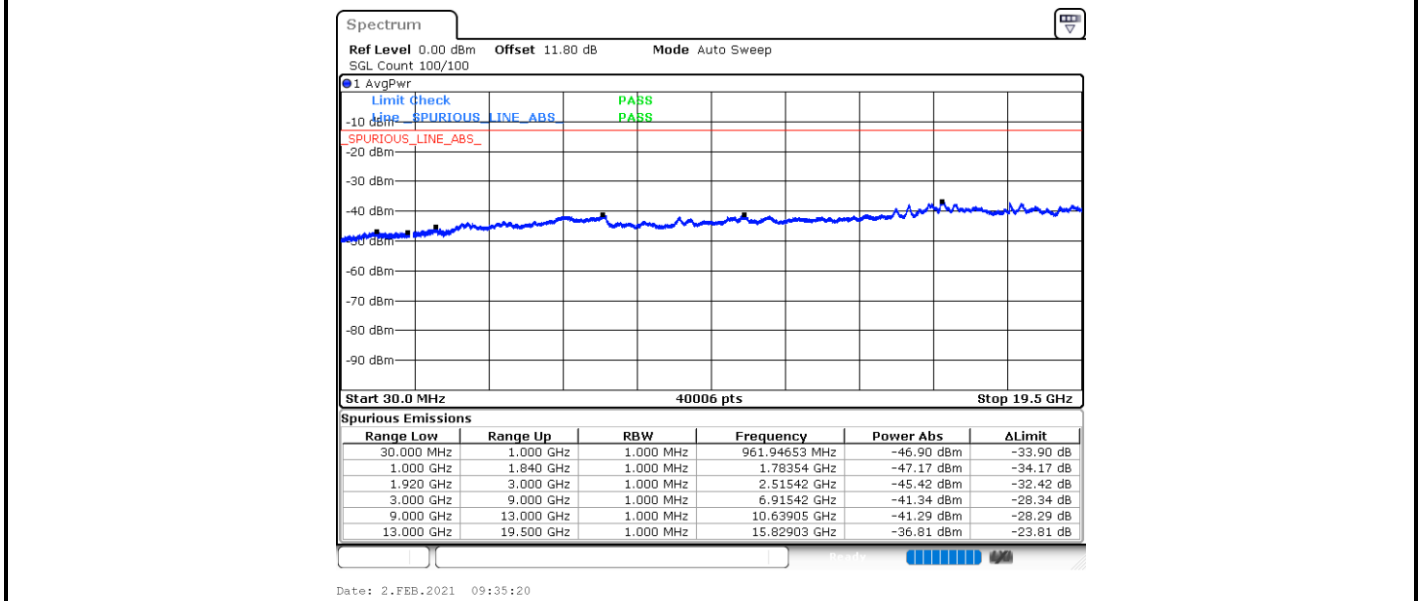
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

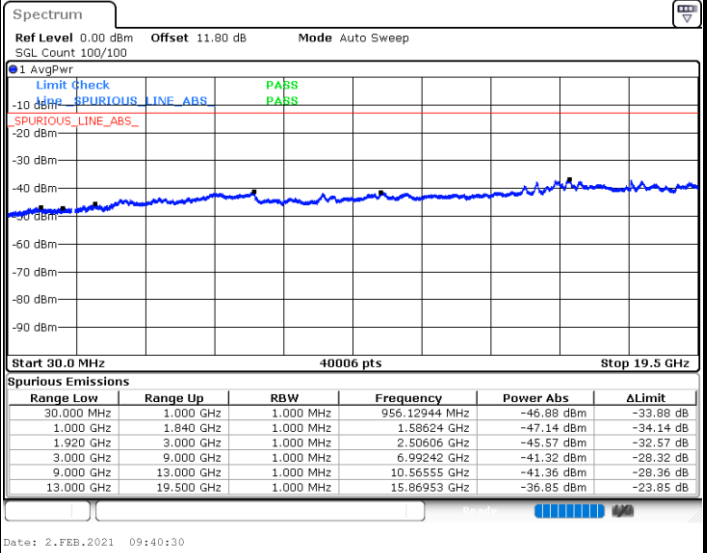
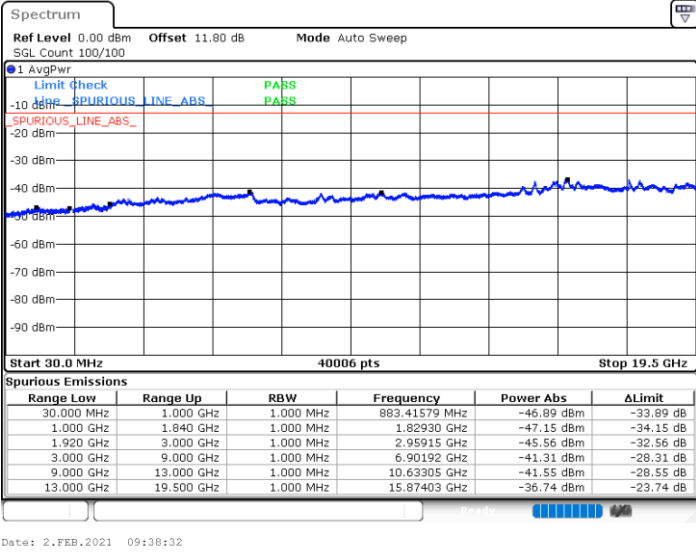




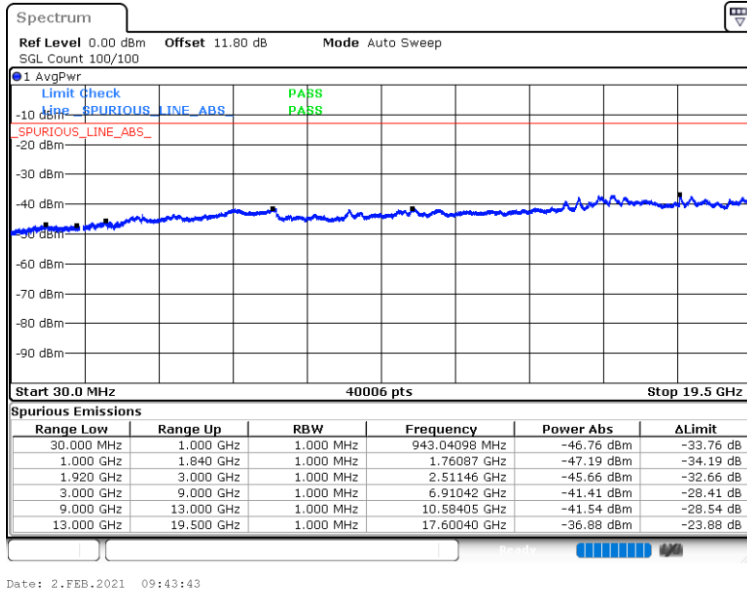
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

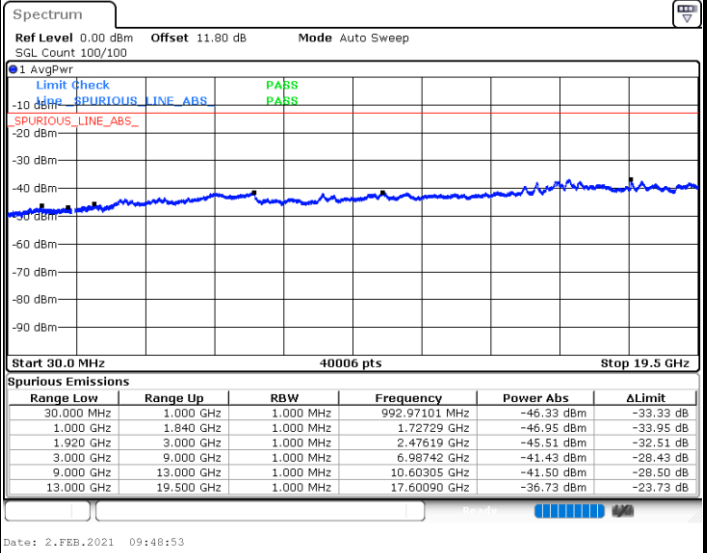
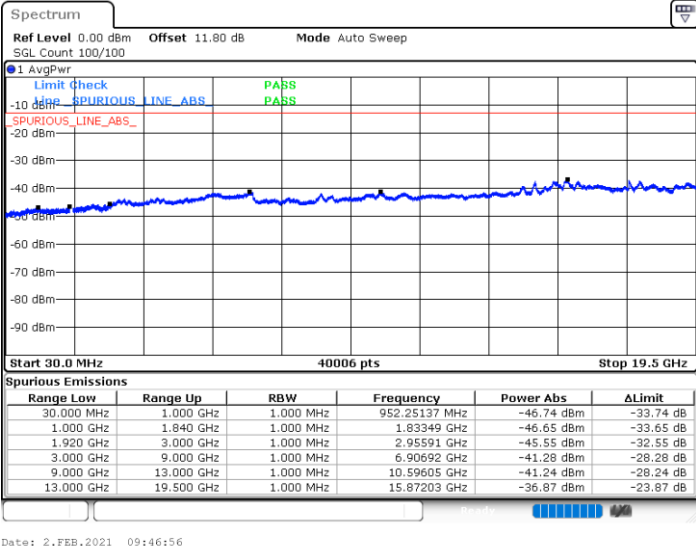




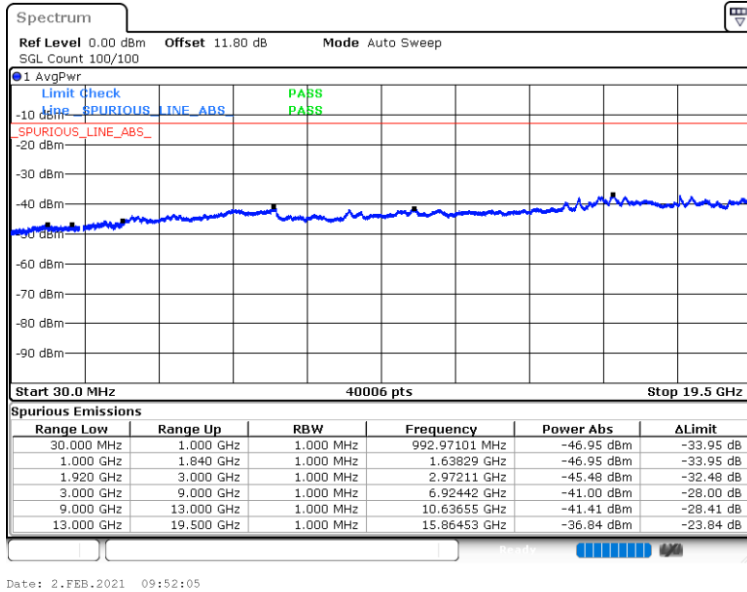
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK



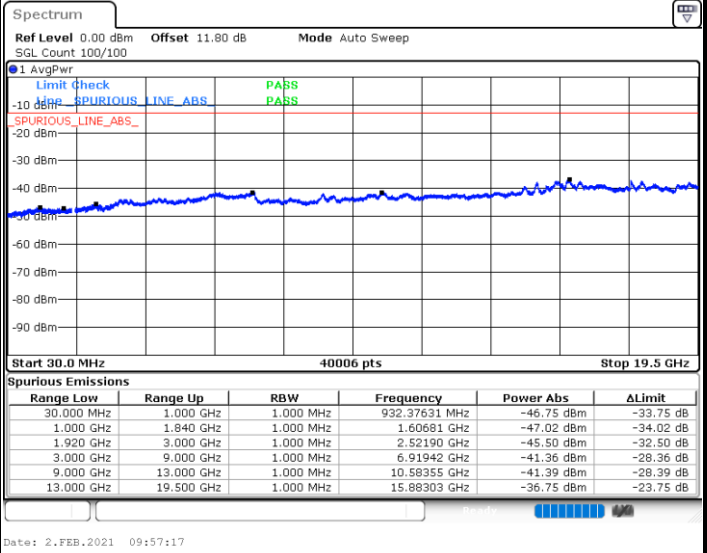
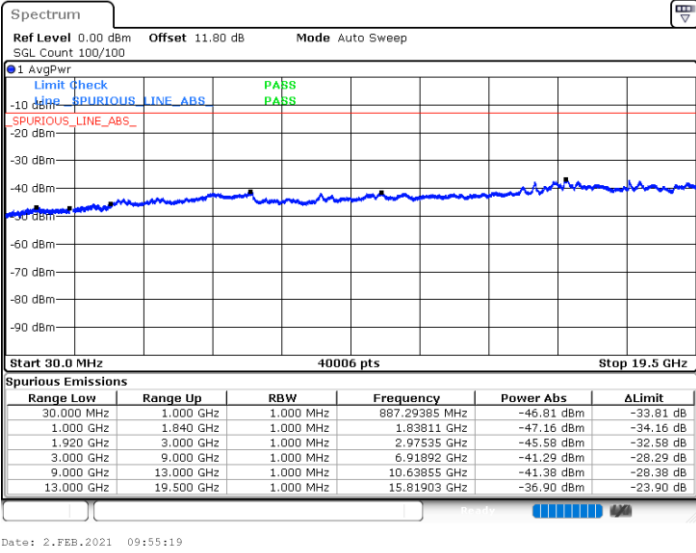




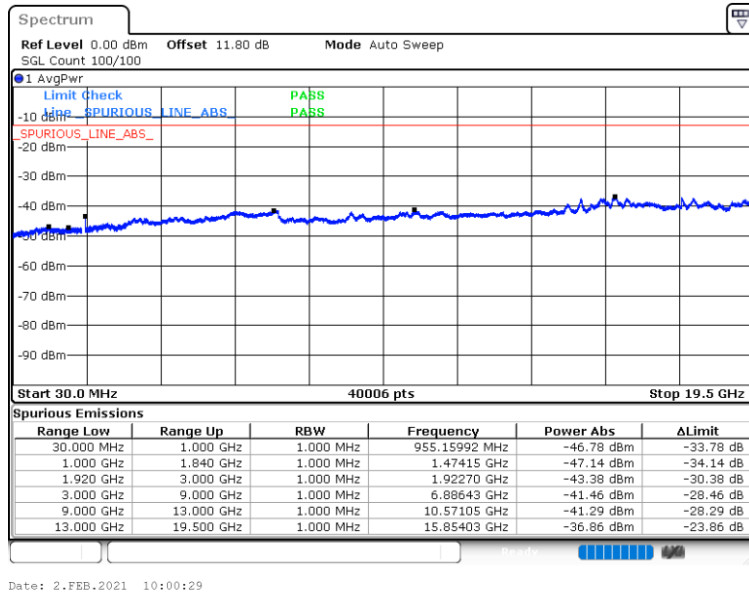
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

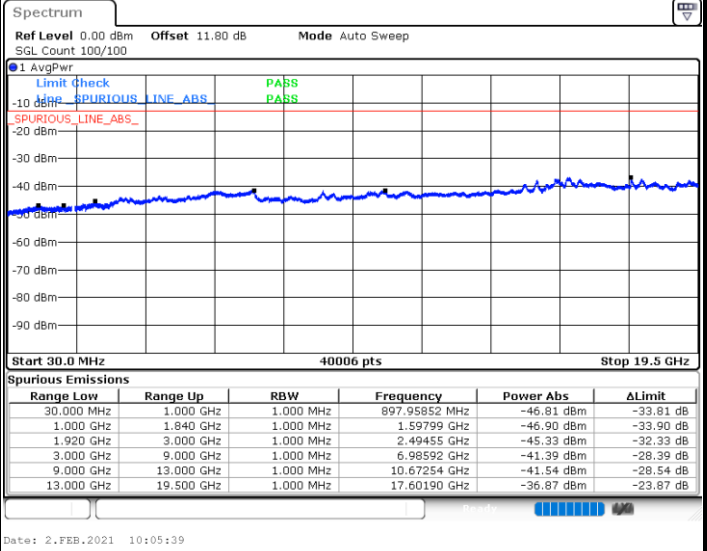
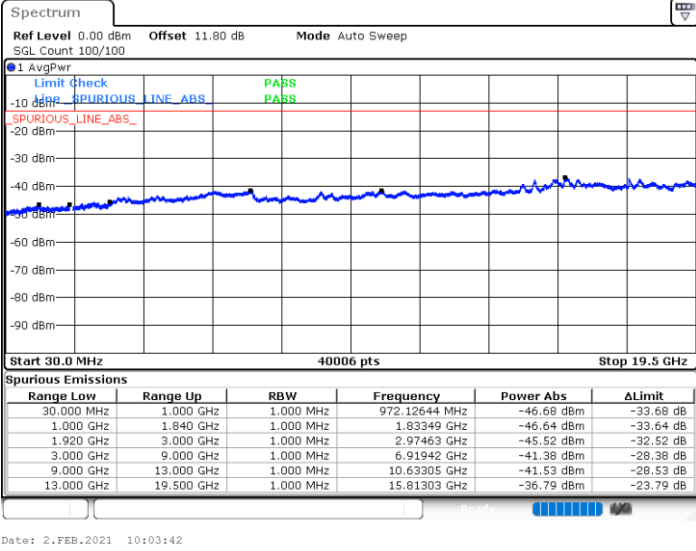




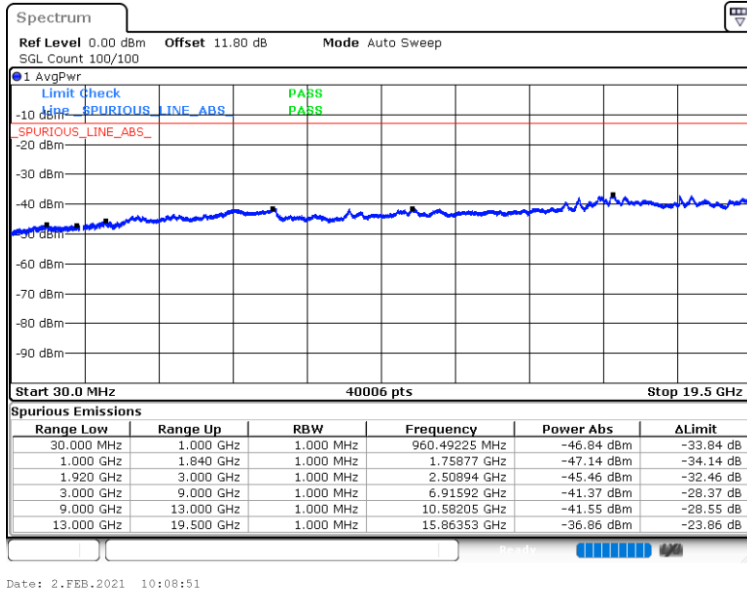
LTE Band 2 / 20MHz

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	0.0006	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0049	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

Note:

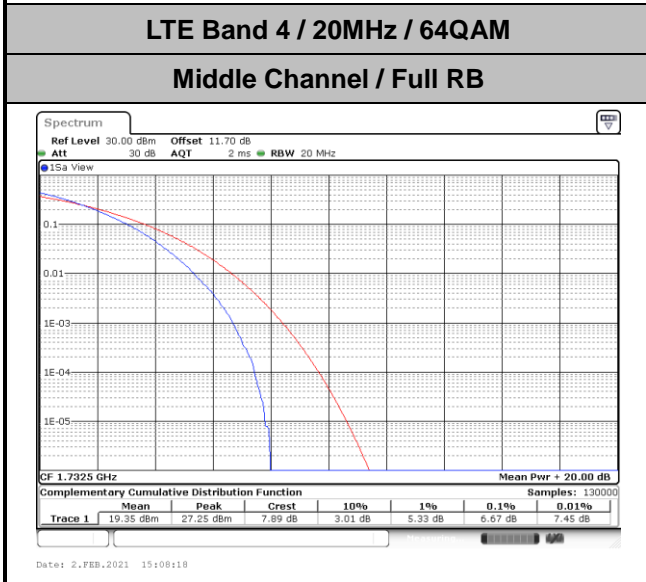
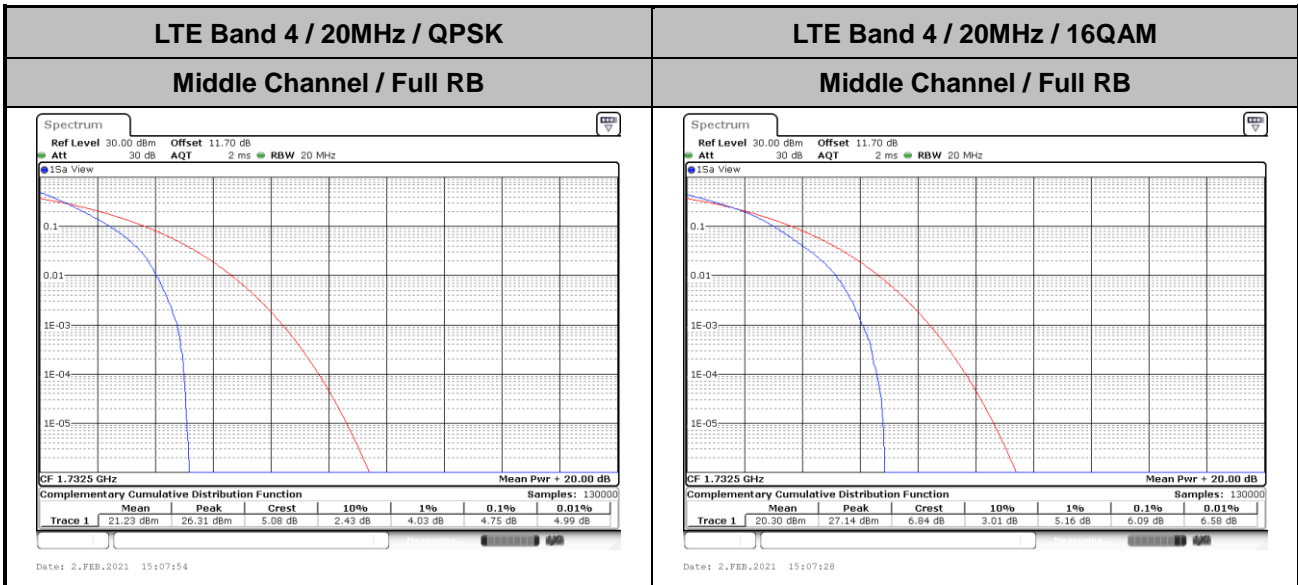
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# 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	4.75	6.09	6.67	PASS





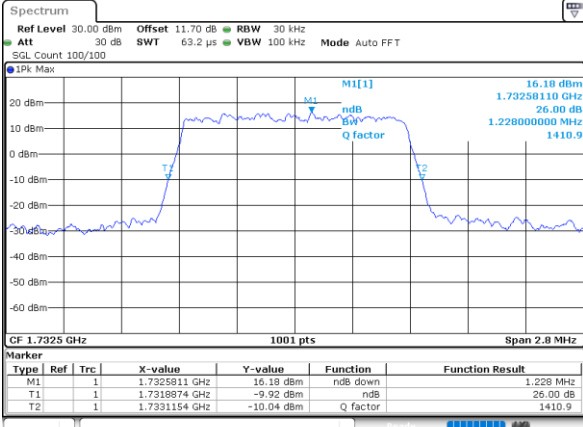
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.23	1.24	3.03	3.00	4.87	4.86	9.85	9.69	14.36	14.51	18.98	18.90
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	1.24	-	3.04	-	4.95	-	9.67	-	14.36	-	19.22	-



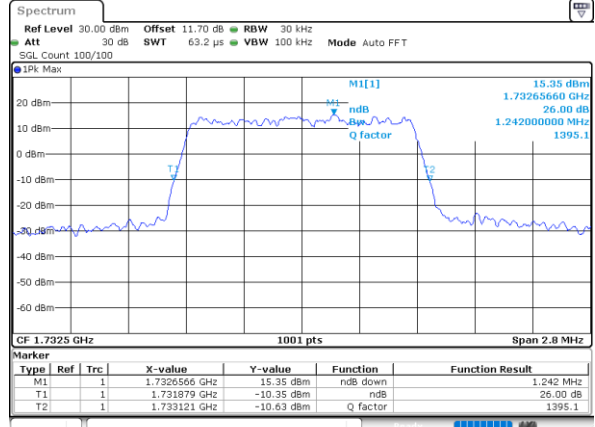
LTE Band 4

Middle Channel / 1.4MHz / QPSK



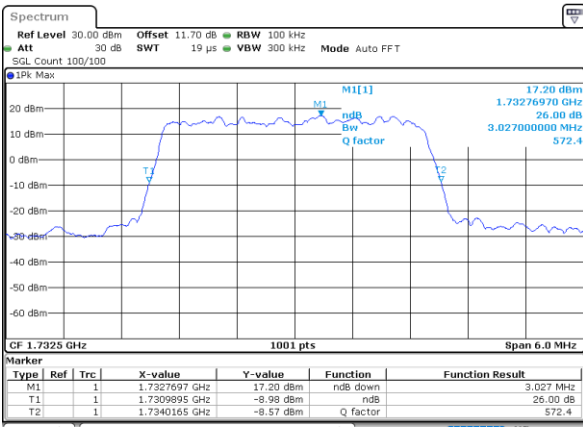
Date: 2.FEB.2021 13:42:30

Middle Channel / 1.4MHz / 16QAM



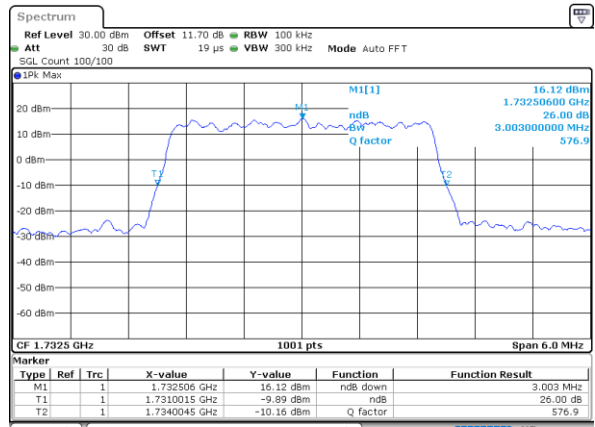
Date: 2.FEB.2021 13:42:43

Middle Channel / 3MHz / QPSK



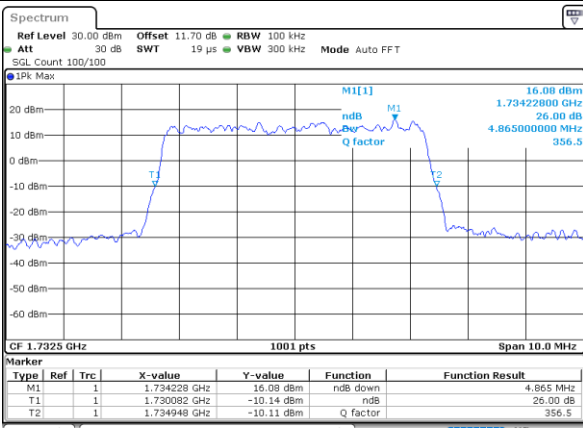
Date: 2.FEB.2021 13:53:31

Middle Channel / 3MHz / 16QAM



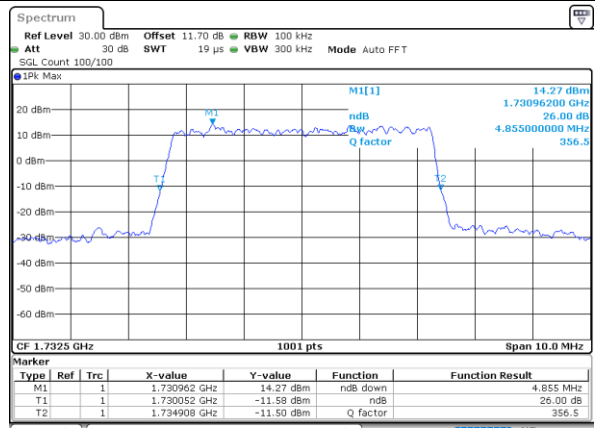
Date: 2.FEB.2021 13:53:45

Middle Channel / 5MHz / QPSK



Date: 2.FEB.2021 14:07:09

Middle Channel / 5MHz / 16QAM

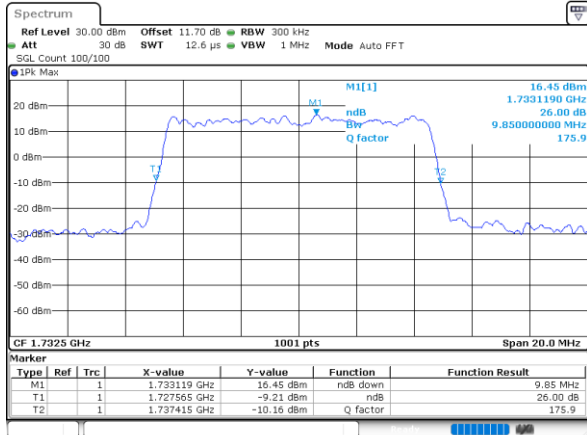


Date: 2.FEB.2021 14:07:23



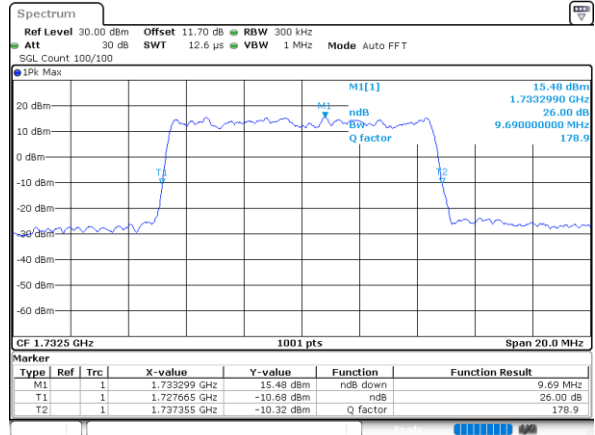
LTE Band 4

Middle Channel / 10MHz / QPSK



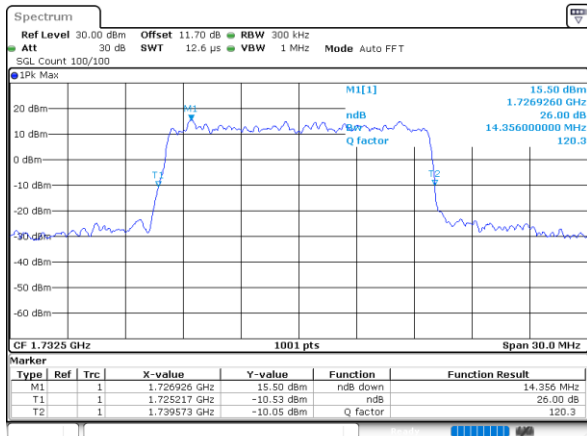
Date: 2.FEB.2021 14:15:33

Middle Channel / 10MHz / 16QAM



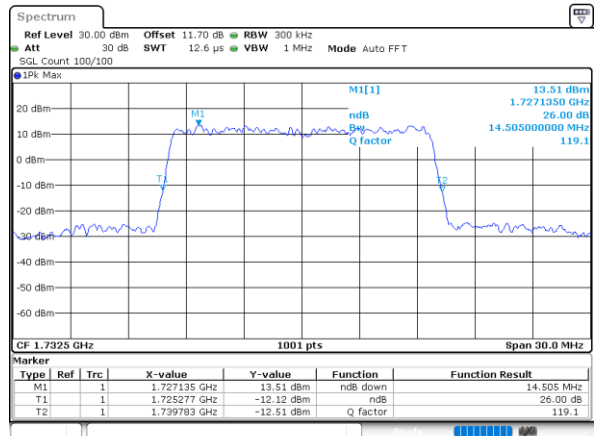
Date: 2.FEB.2021 14:15:46

Middle Channel / 15MHz / QPSK



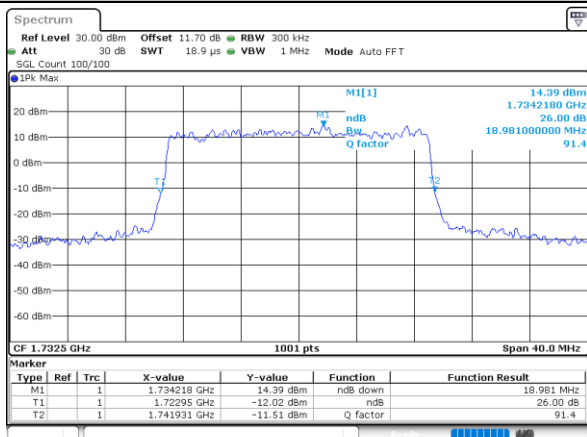
Date: 2.FEB.2021 14:26:33

Middle Channel / 15MHz / 16QAM



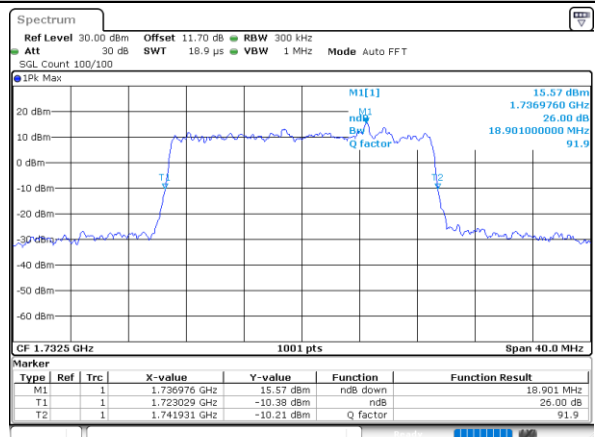
Date: 2.FEB.2021 14:26:47

Middle Channel / 20MHz / QPSK



Date: 2.FEB.2021 14:37:34

Middle Channel / 20MHz / 16QAM

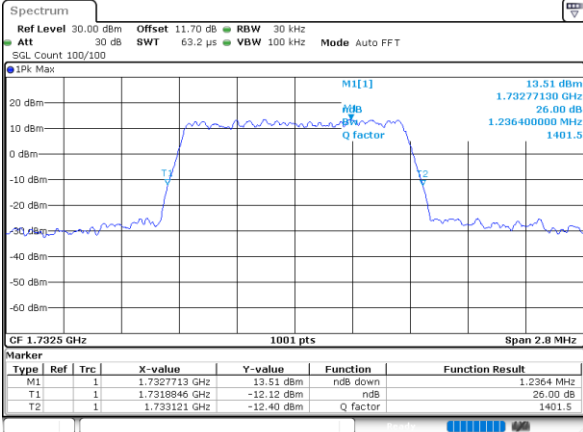


Date: 2.FEB.2021 14:37:48

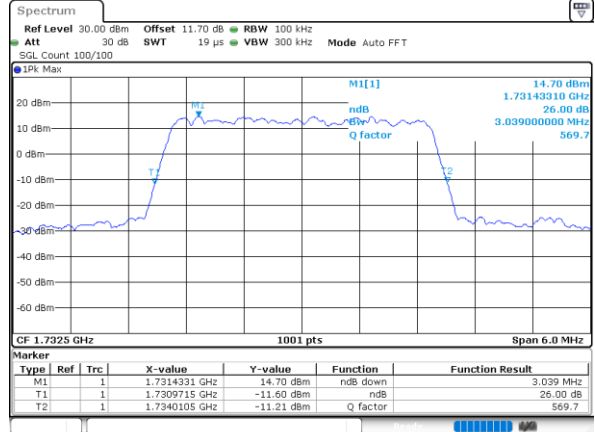


LTE Band 4

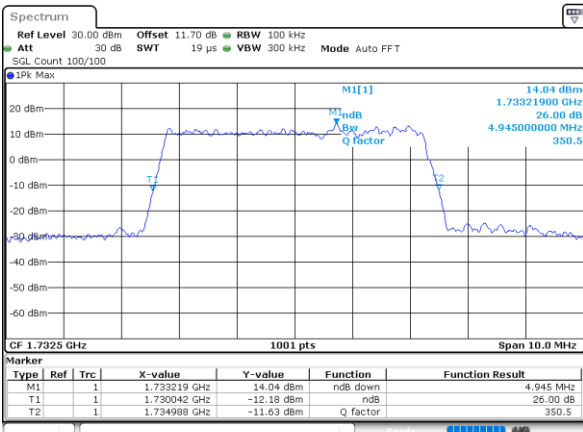
Middle Channel / 1.4MHz / 64QAM



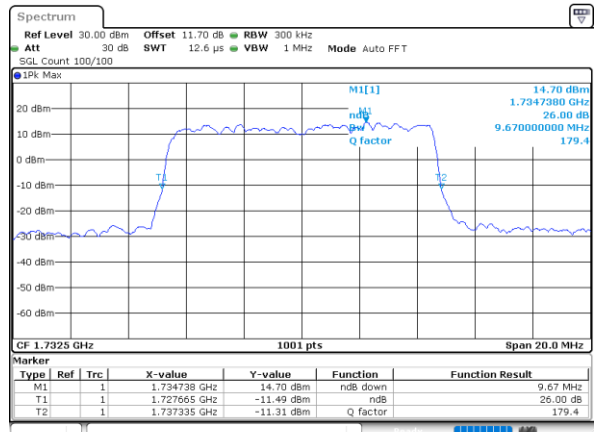
Middle Channel / 3MHz / 64QAM



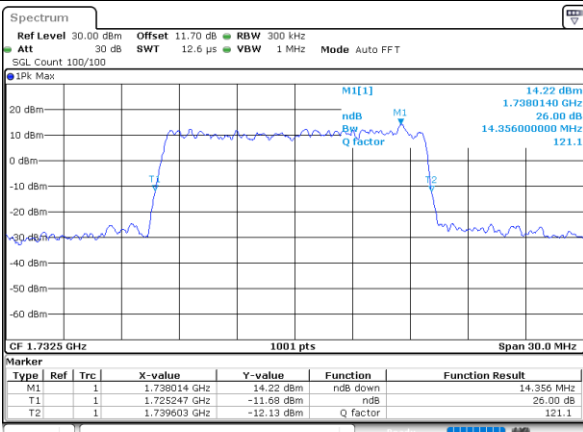
Middle Channel / 5MHz / 64QAM



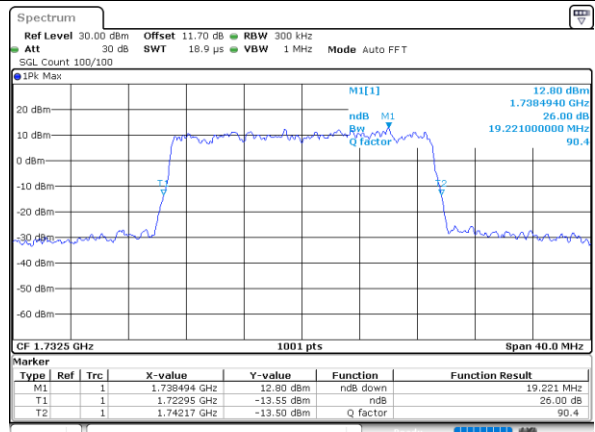
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM







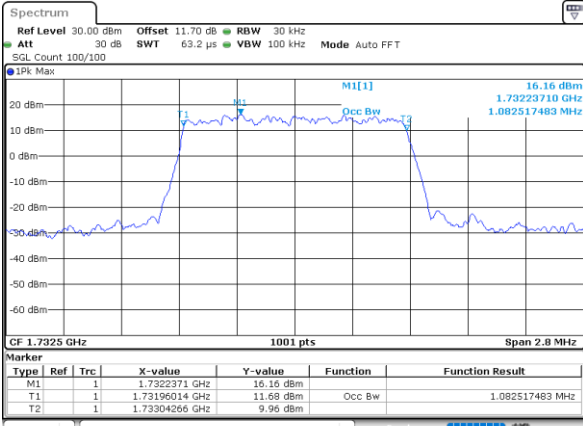
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.73	2.73	4.51	4.51	9.03	9.07	13.46	13.49	17.82	17.90
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	1.09	-	2.73	-	4.49	-	8.99	-	13.37	-	17.90	-



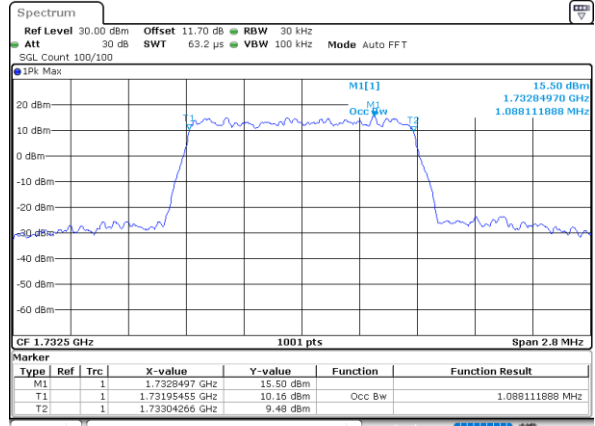
LTE Band 4

Middle Channel / 1.4MHz / QPSK



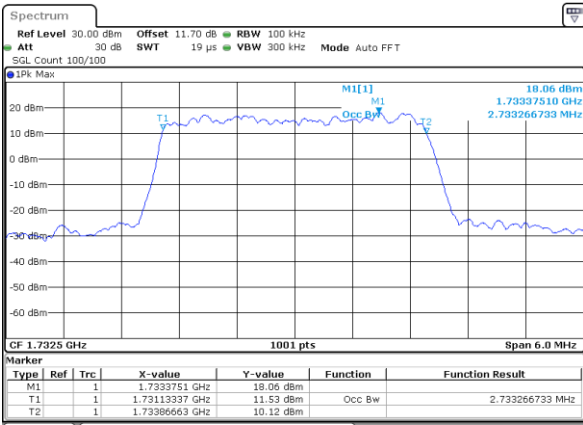
Date: 2.FEB.2021 13:42:02

Middle Channel / 1.4MHz / 16QAM



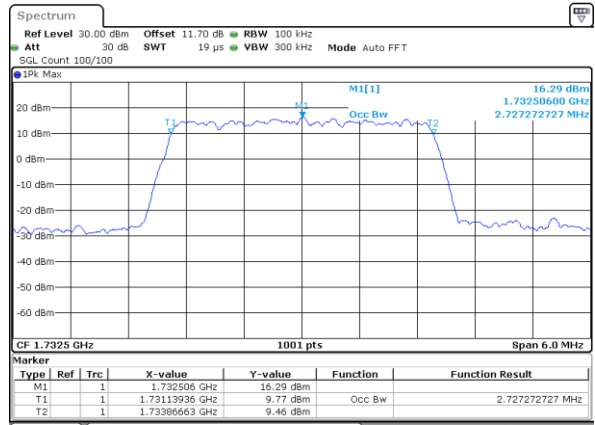
Date: 2.FEB.2021 13:42:16

Middle Channel / 3MHz / QPSK



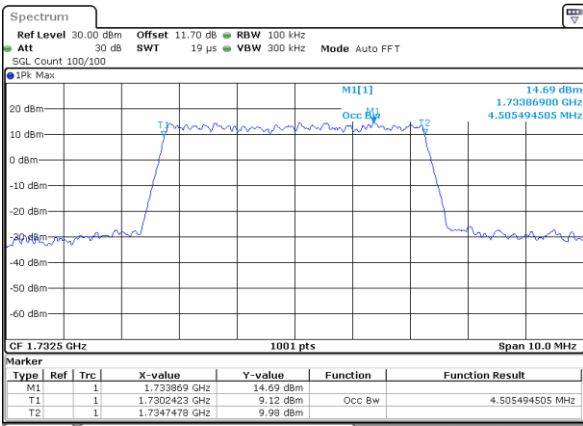
Date: 2.FEB.2021 13:53:03

Middle Channel / 3MHz / 16QAM



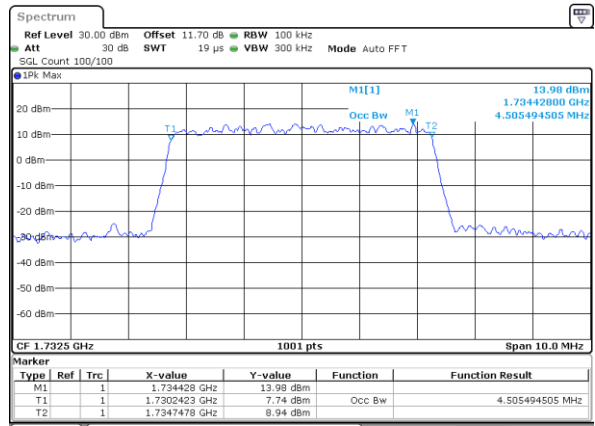
Date: 2.FEB.2021 13:53:17

Middle Channel / 5MHz / QPSK



Date: 2.FEB.2021 14:06:42

Middle Channel / 5MHz / 16QAM

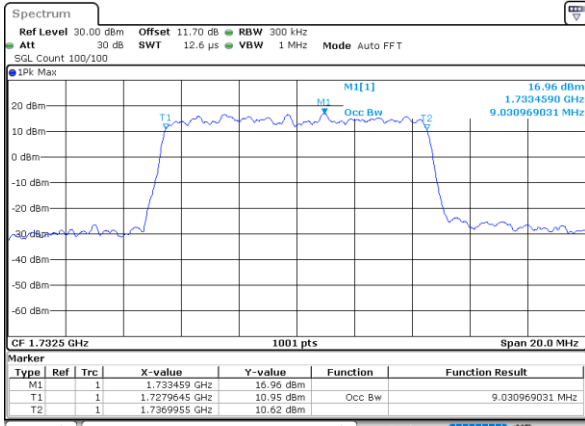


Date: 2.FEB.2021 14:06:55



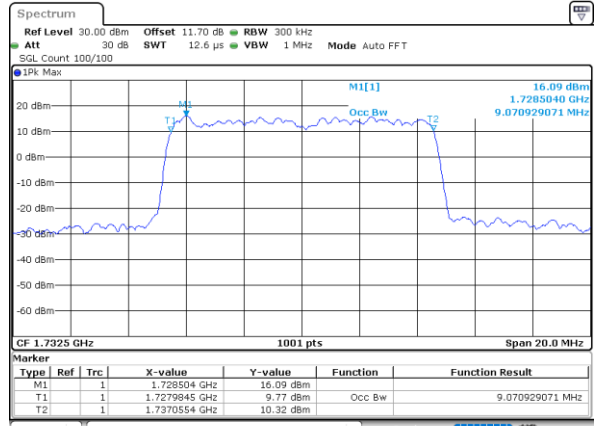
LTE Band 4

Middle Channel / 10MHz / QPSK



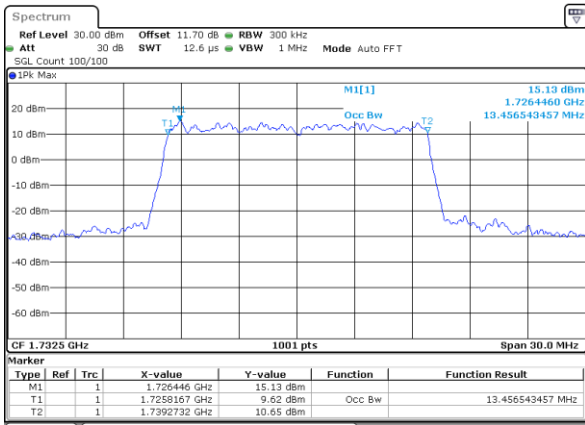
Date: 2.FEB.2021 14:15:05

Middle Channel / 10MHz / 16QAM



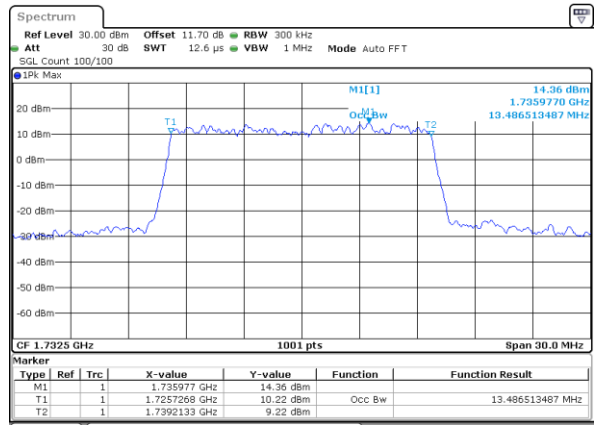
Date: 2.FEB.2021 14:15:19

Middle Channel / 15MHz / QPSK



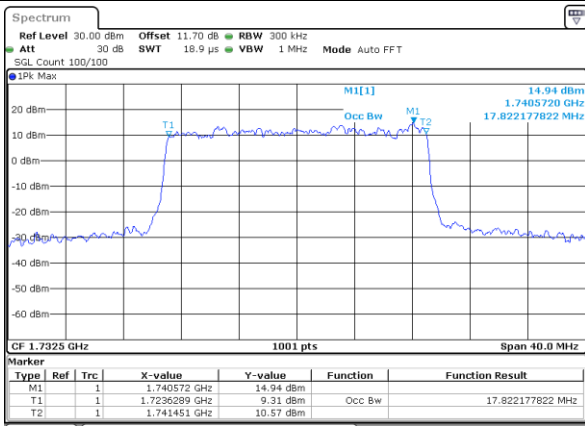
Date: 2.FEB.2021 14:26:06

Middle Channel / 15MHz / 16QAM



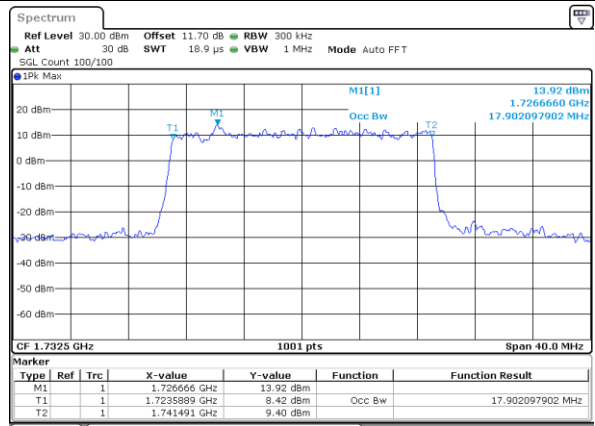
Date: 2.FEB.2021 14:26:19

Middle Channel / 20MHz / QPSK



Date: 2.FEB.2021 14:37:06

Middle Channel / 20MHz / 16QAM

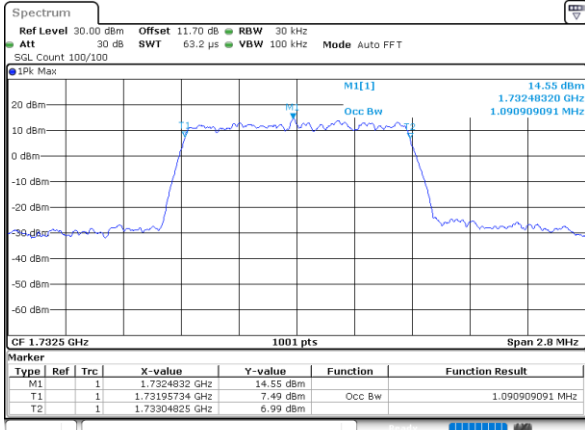


Date: 2.FEB.2021 14:37:20



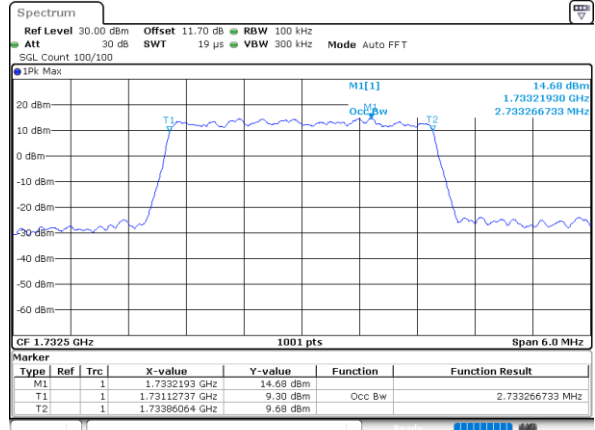
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



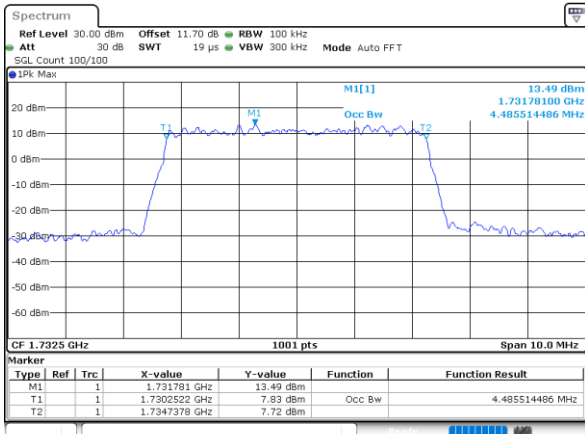
Date: 2.FEB.2021 13:48:17

Middle Channel / 3MHz / 64QAM



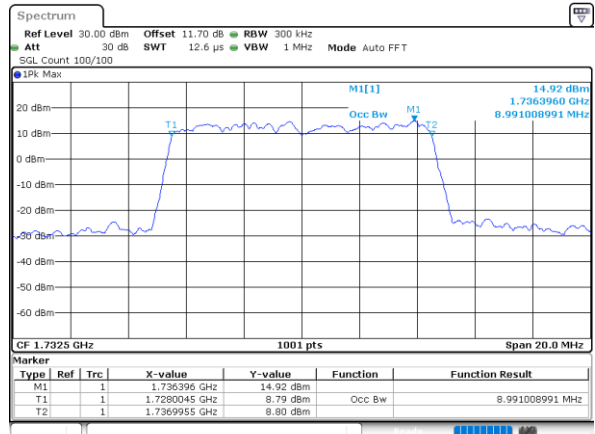
Date: 2.FEB.2021 13:59:18

Middle Channel / 5MHz / 64QAM



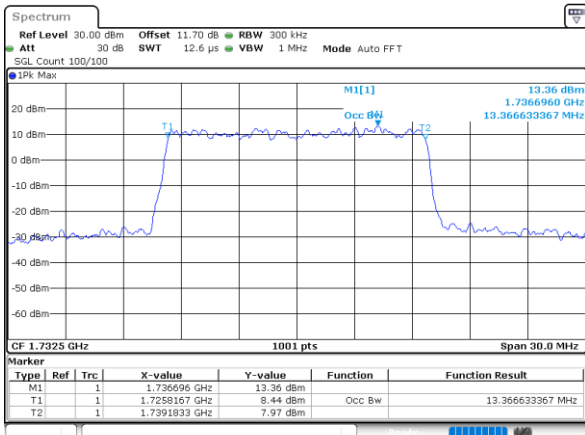
Date: 2.FEB.2021 14:01:56

Middle Channel / 10MHz / 64QAM



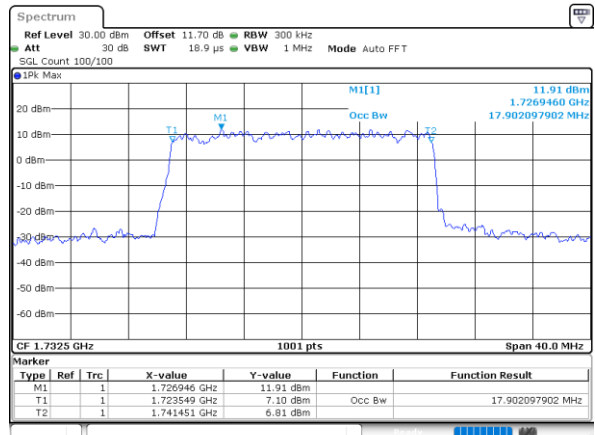
Date: 2.FEB.2021 14:21:50

Middle Channel / 15MHz / 64QAM



Date: 2.FEB.2021 14:32:20

Middle Channel / 20MHz / 64QAM



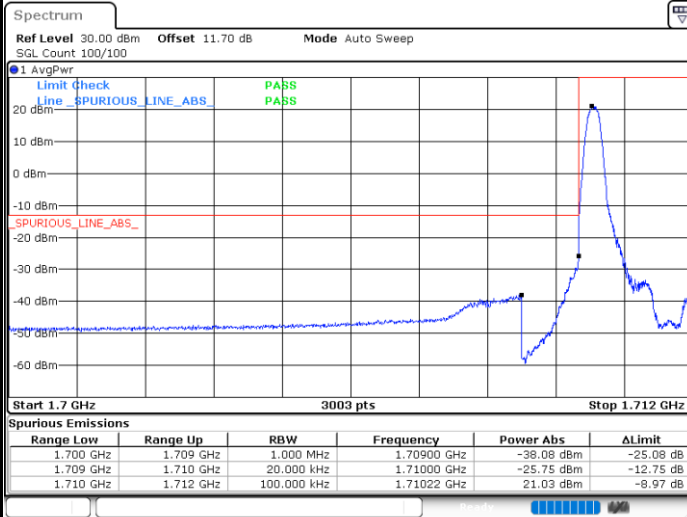
Date: 2.FEB.2021 14:43:21



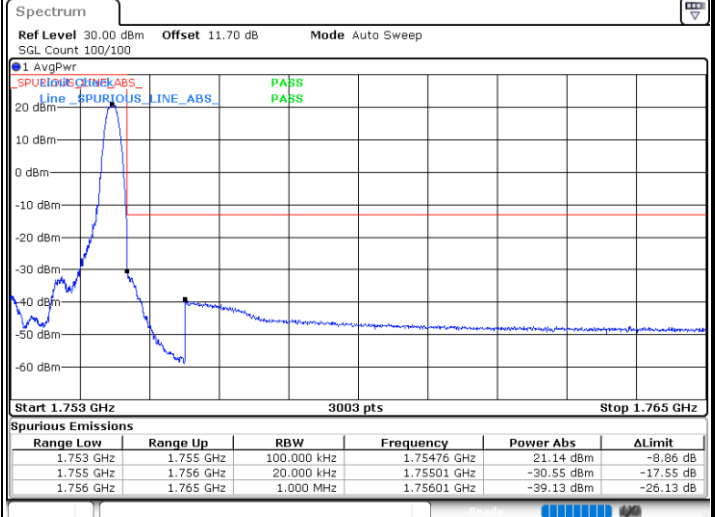
# Conducted Band Edge

## LTE Band 4 / 1.4MHz / QPSK

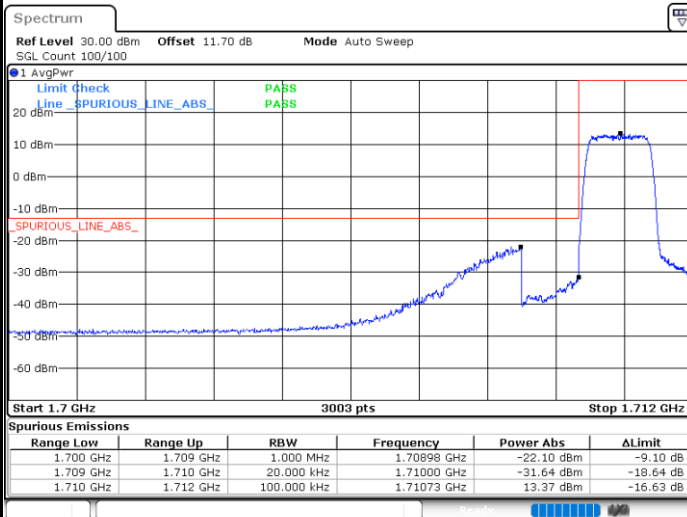
### Lowest Band Edge / 1RB



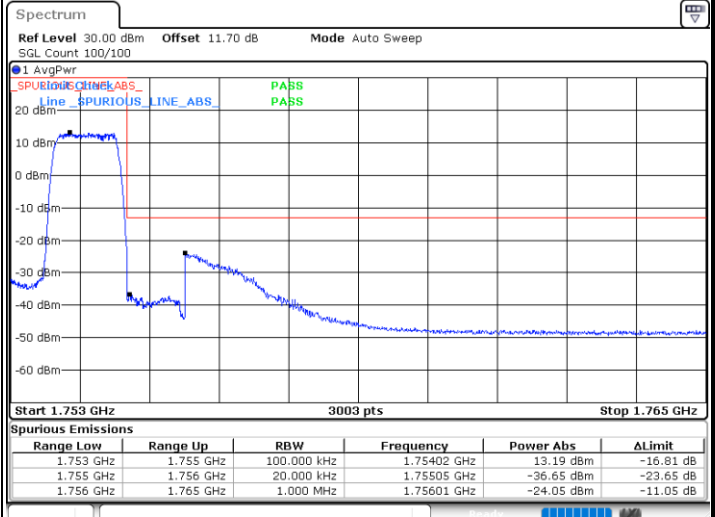
### Highest Band Edge / 1RB



### Lowest Band Edge / Full RB



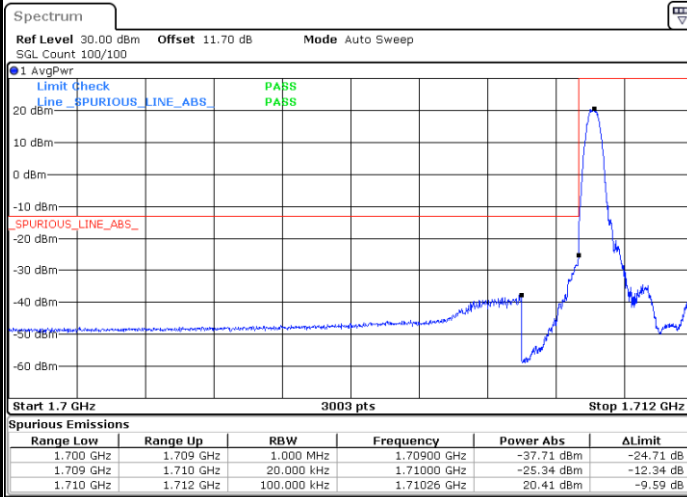
### Highest Band Edge / Full RB





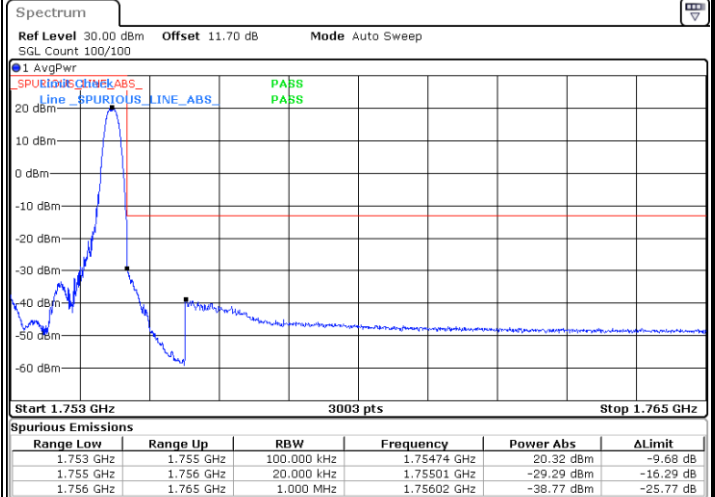
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



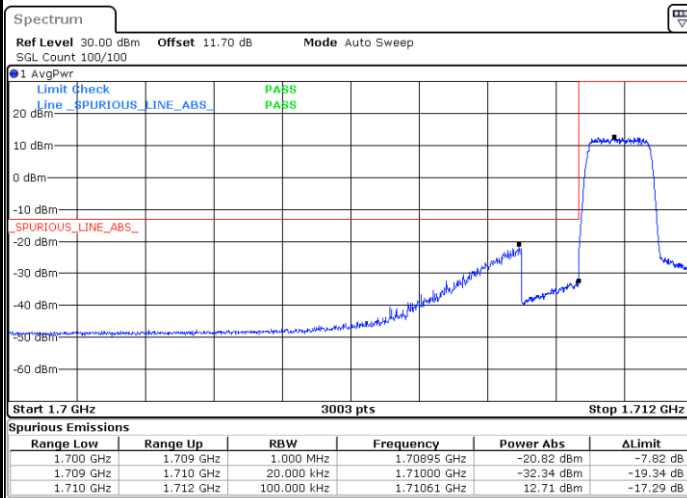
Date: 2.FEB.2021 13:39:40

Highest Band Edge / 1 RB



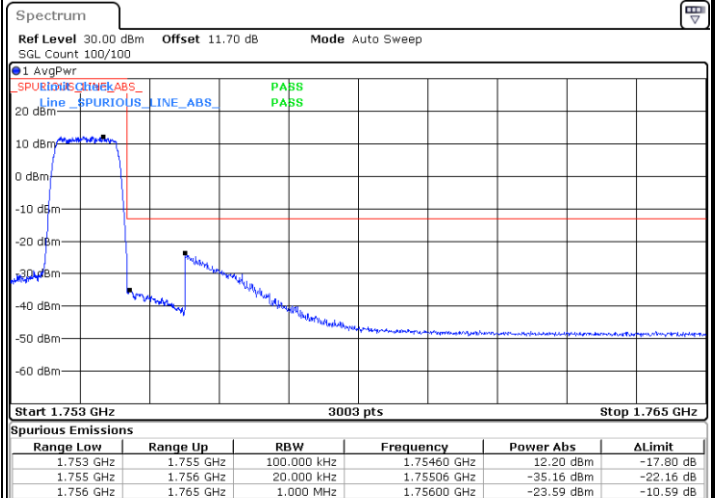
Date: 2.FEB.2021 13:44:50

Lowest Band Edge / Full RB



Date: 2.FEB.2021 13:40:45

Highest Band Edge / Full RB

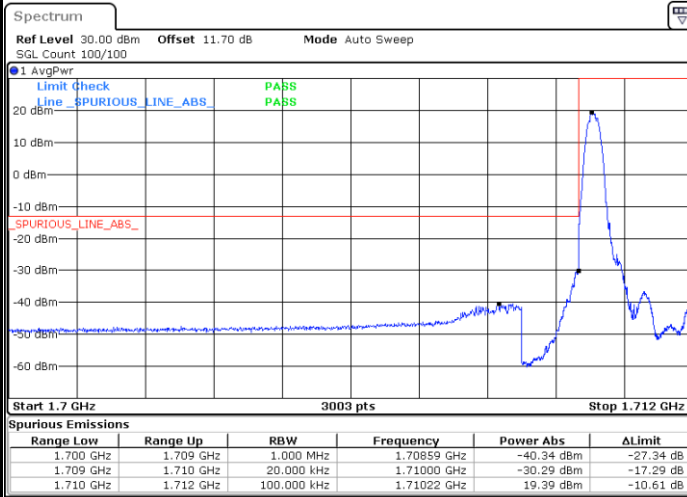


Date: 2.FEB.2021 13:45:55



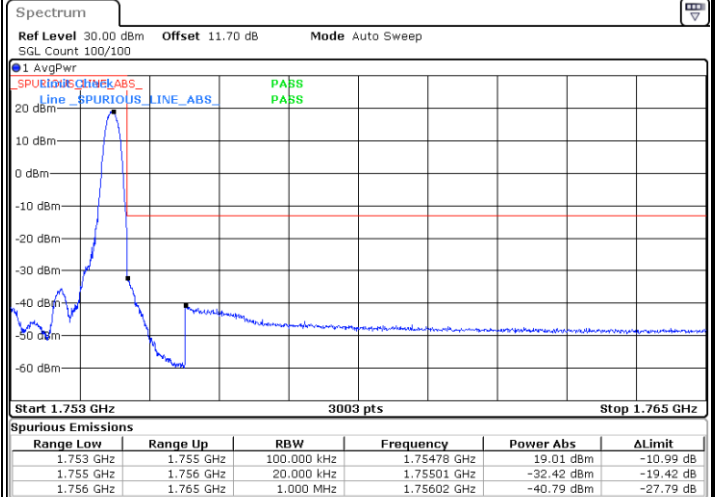
LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



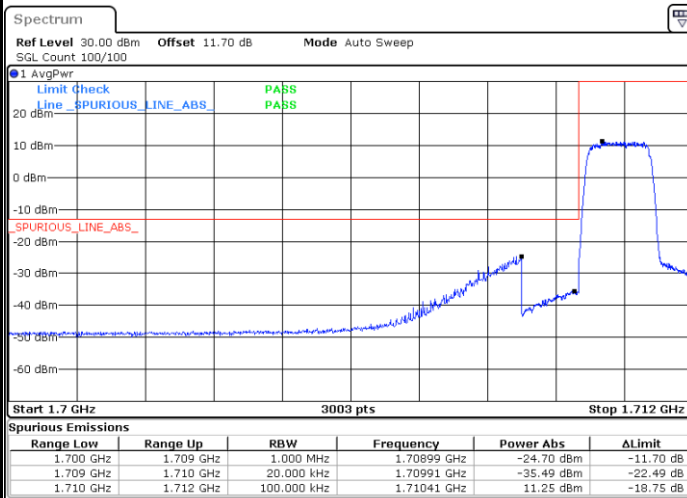
Date: 2.FEB.2021 13:47:31

Highest Band Edge / 1 RB



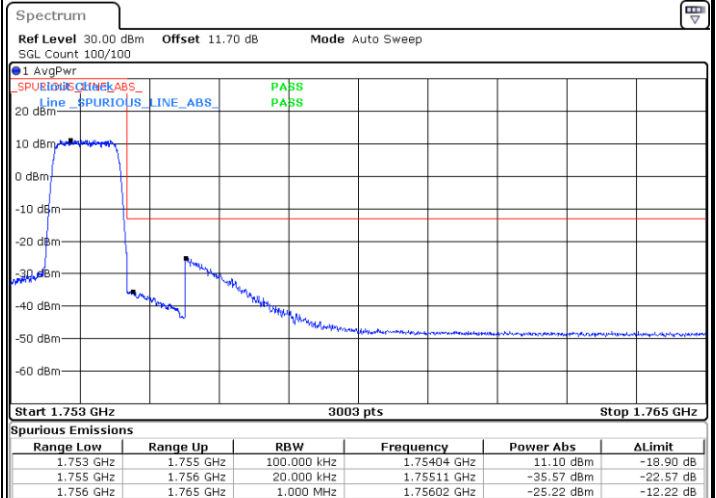
Date: 2.FEB.2021 13:49:04

Lowest Band Edge / Full RB



Date: 2.FEB.2021 13:48:04

Highest Band Edge / Full RB

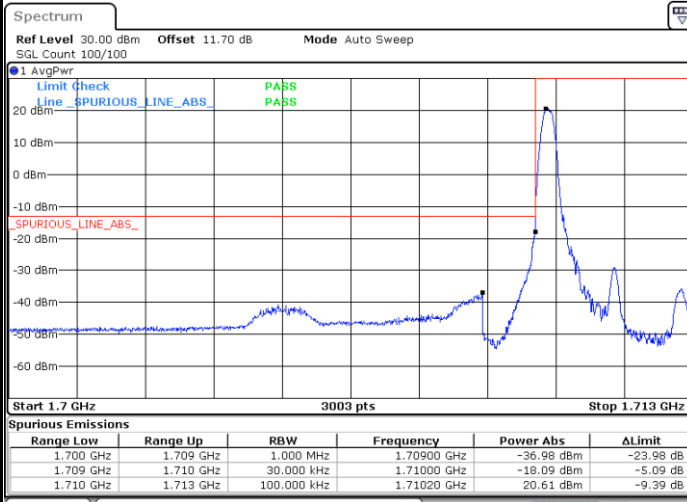


Date: 2.FEB.2021 13:49:36



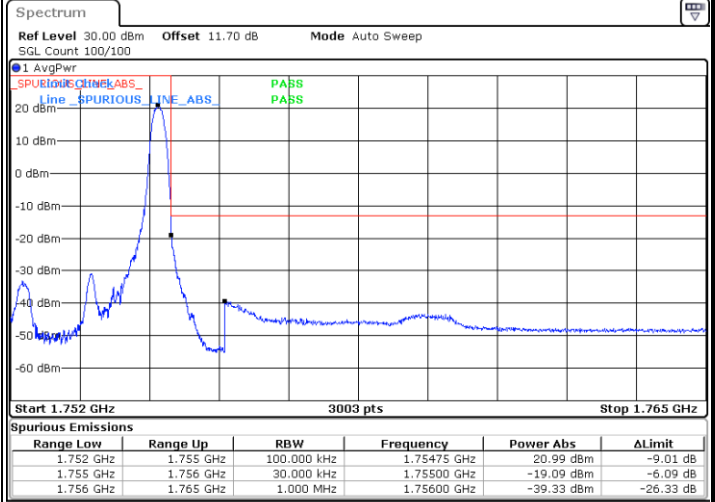
LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



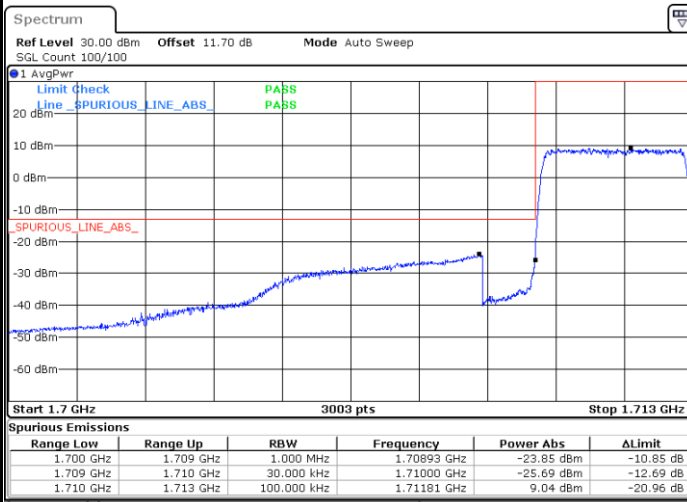
Date: 2.FEB.2021 13:50:09

Highest Band Edge / 1 RB



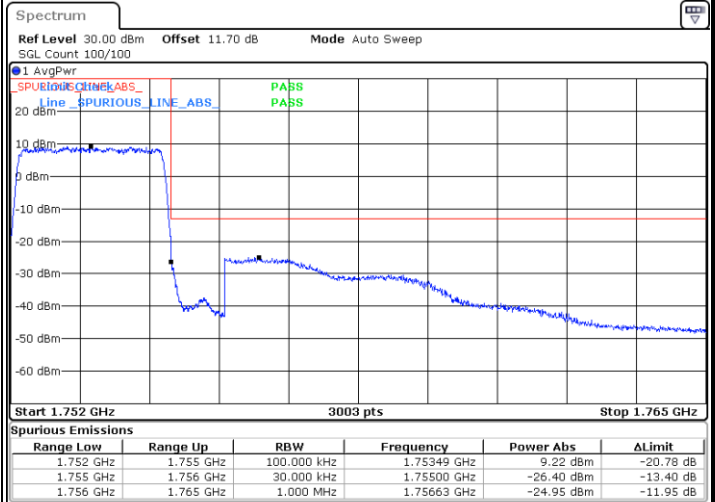
Date: 2.FEB.2021 13:55:19

Lowest Band Edge / Full RB



Date: 2.FEB.2021 13:51:14

Highest Band Edge / Full RB



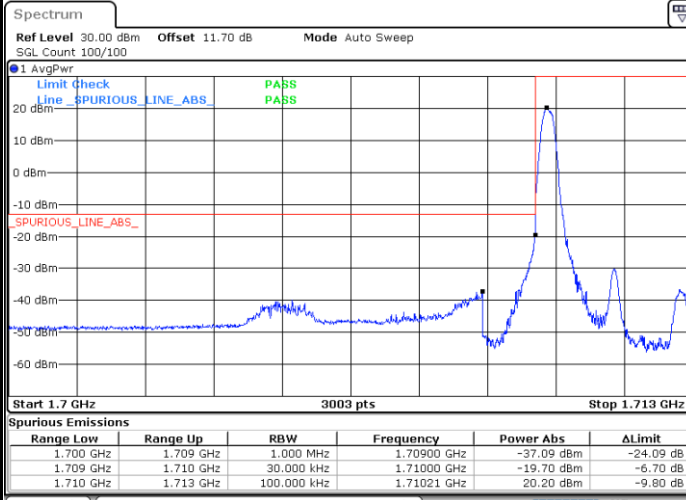
Date: 2.FEB.2021 13:56:24





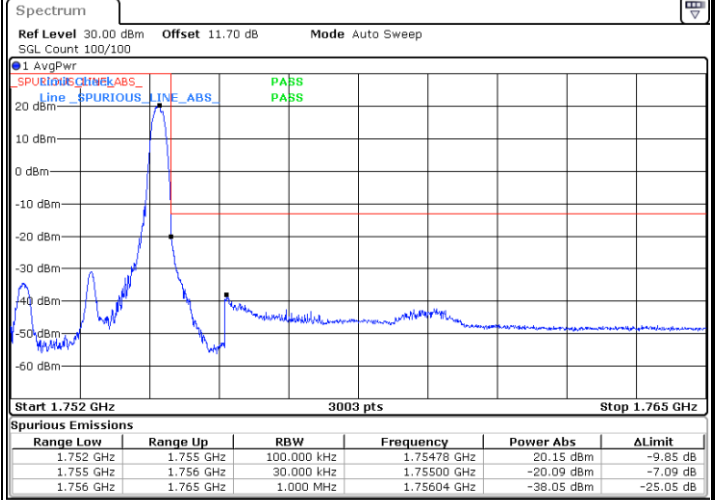
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



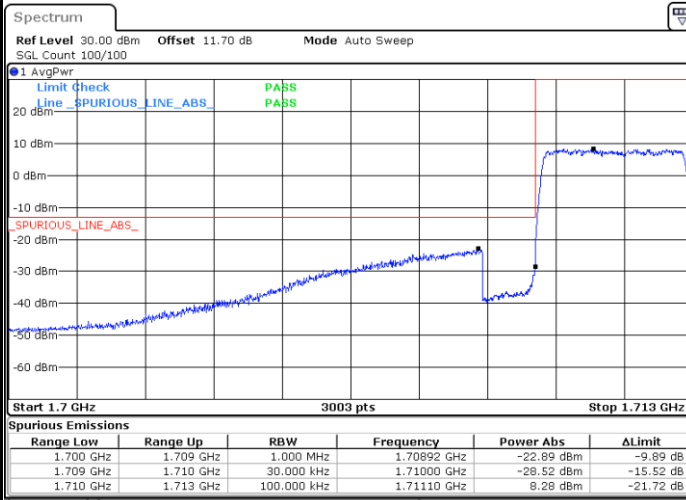
Date: 2.FEB.2021 13:50:42

Highest Band Edge / 1 RB



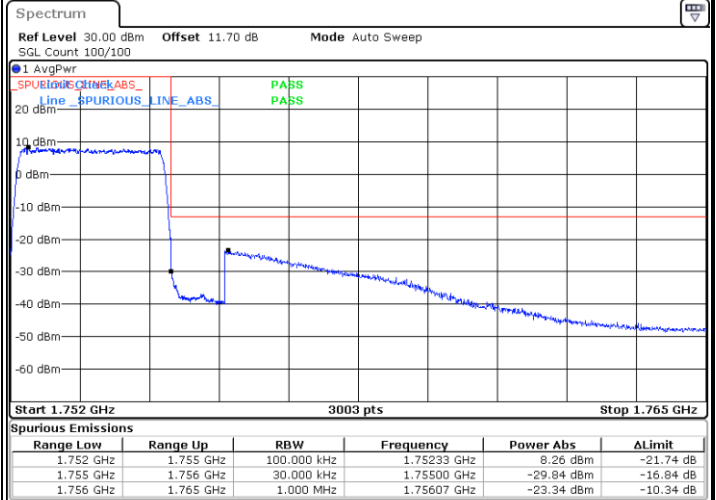
Date: 2.FEB.2021 13:55:52

Lowest Band Edge / Full RB



Date: 2.FEB.2021 13:51:47

Highest Band Edge / Full RB

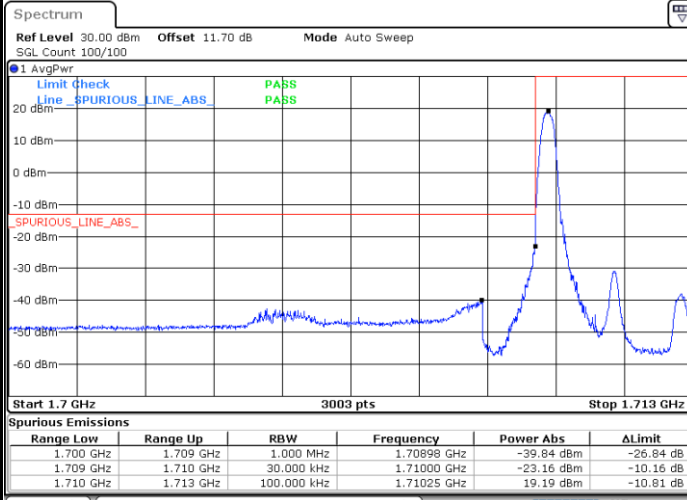


Date: 2.FEB.2021 13:56:57



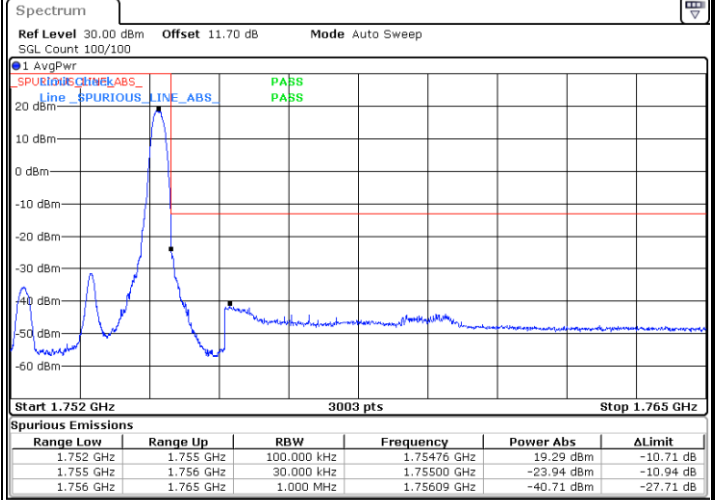
LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



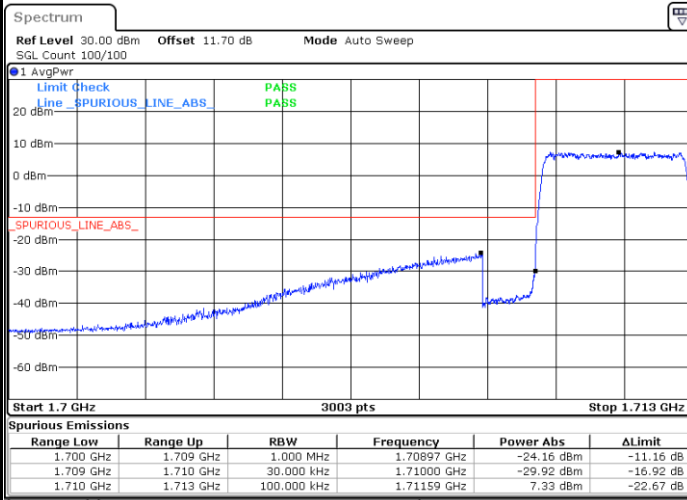
Date: 2.FEB.2021 13:58:32

Highest Band Edge / 1 RB



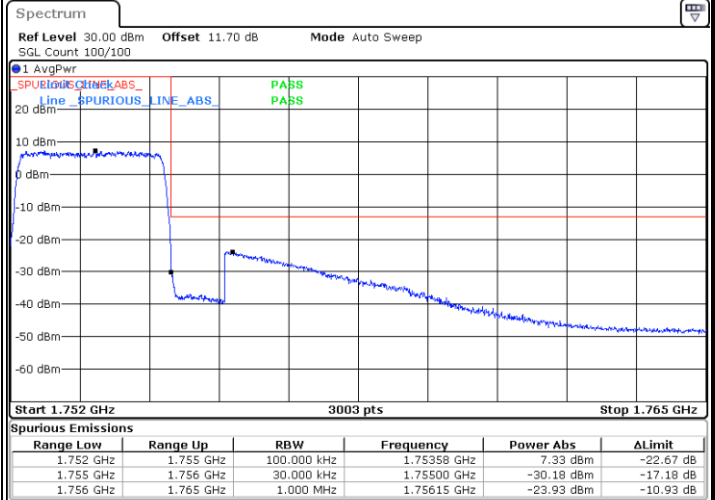
Date: 2.FEB.2021 14:00:05

Lowest Band Edge / Full RB



Date: 2.FEB.2021 13:59:05

Highest Band Edge / Full RB

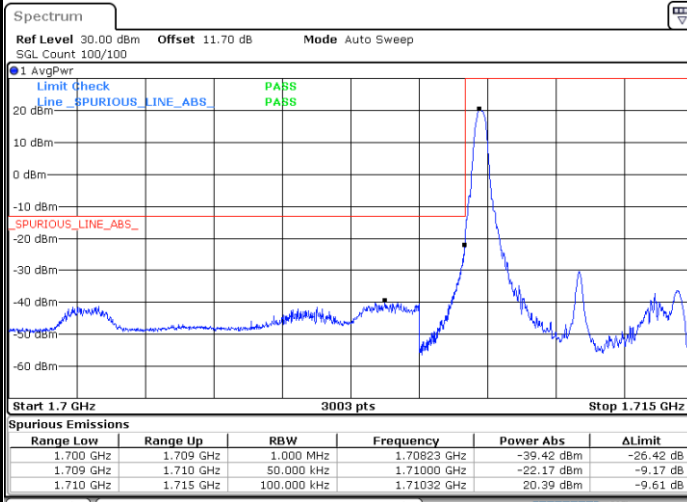


Date: 2.FEB.2021 14:00:37



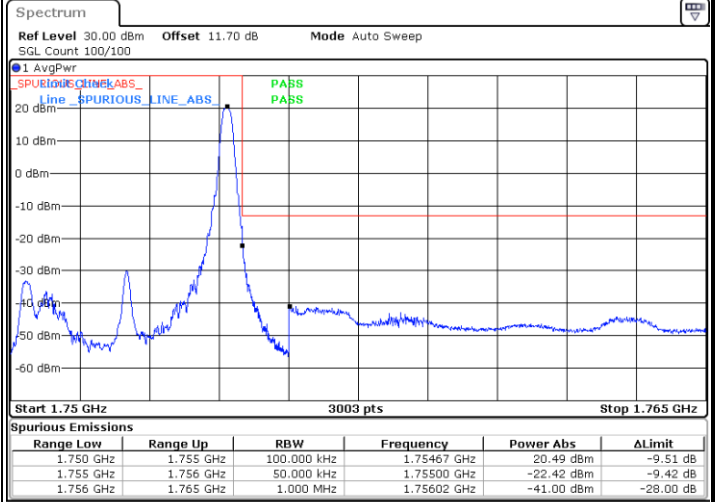
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



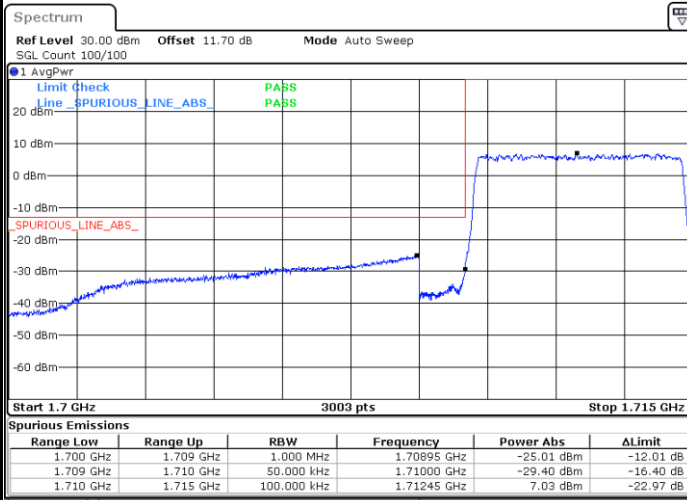
Date: 2.FEB.2021 14:03:48

Highest Band Edge / 1 RB



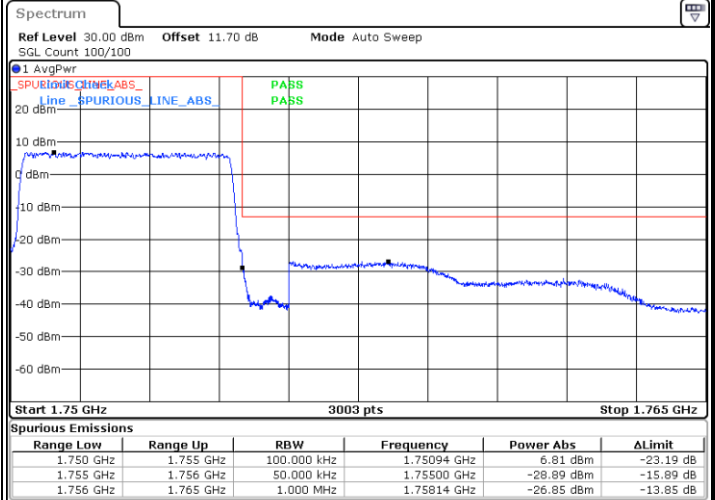
Date: 2.FEB.2021 14:08:58

Lowest Band Edge / Full RB



Date: 2.FEB.2021 14:04:53

Highest Band Edge / Full RB

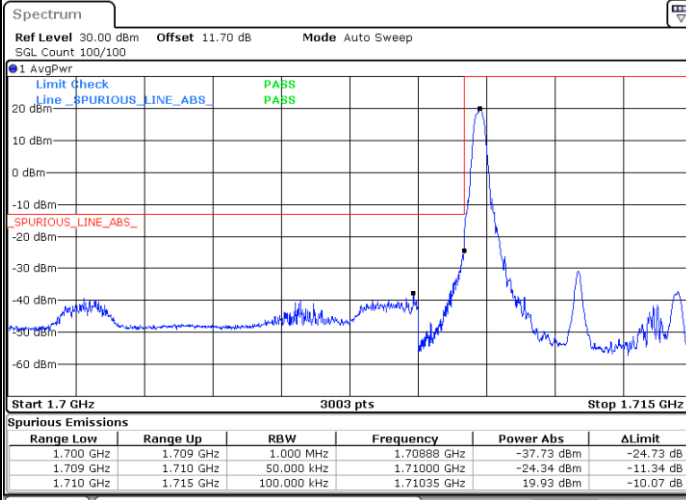


Date: 2.FEB.2021 14:10:03



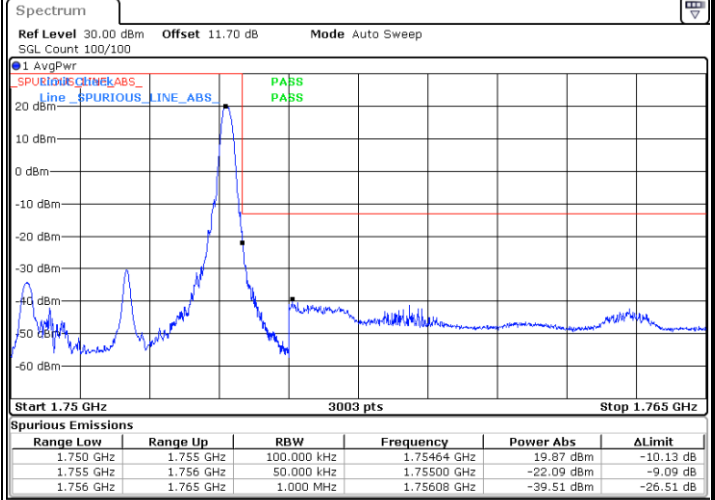
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



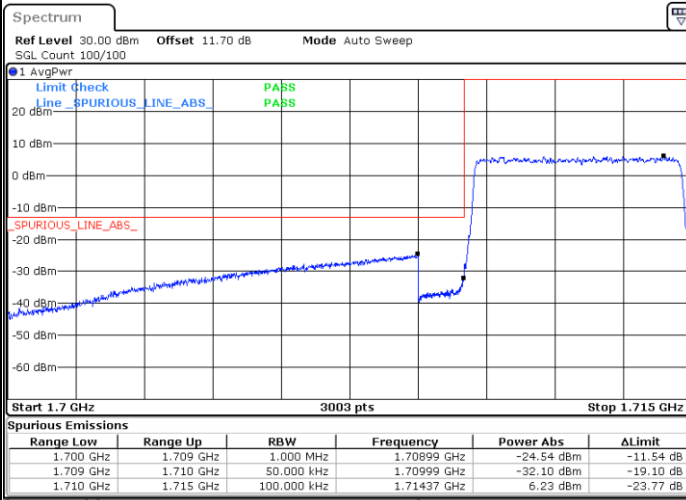
Date: 2.FEB.2021 14:04:20

Highest Band Edge / 1 RB



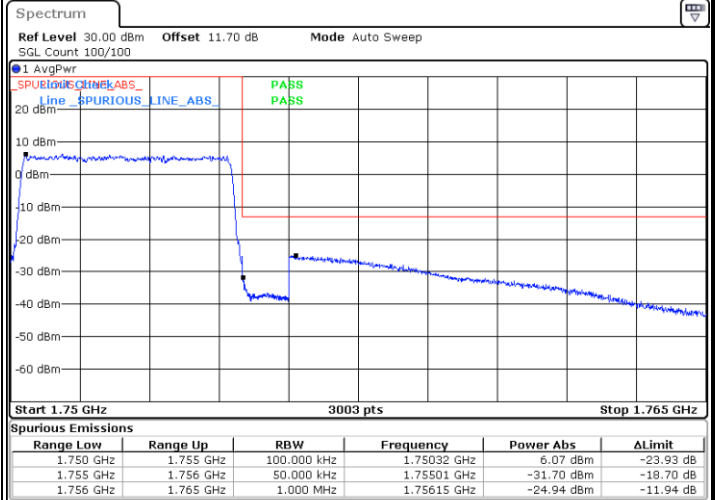
Date: 2.FEB.2021 14:09:30

Lowest Band Edge / Full RB



Date: 2.FEB.2021 14:05:25

Highest Band Edge / Full RB

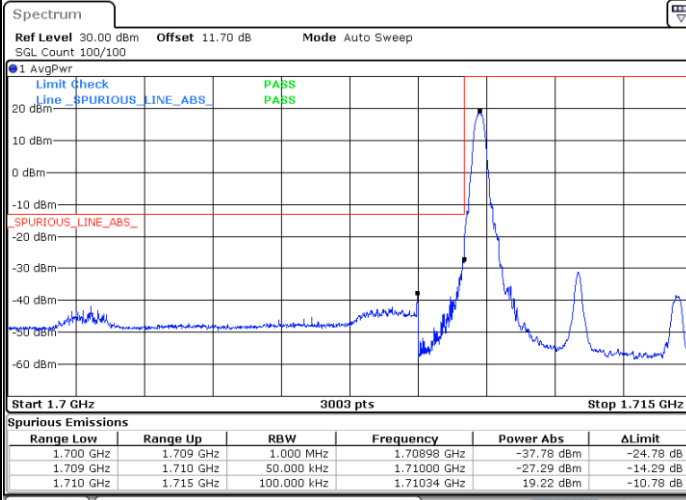


Date: 2.FEB.2021 14:10:35

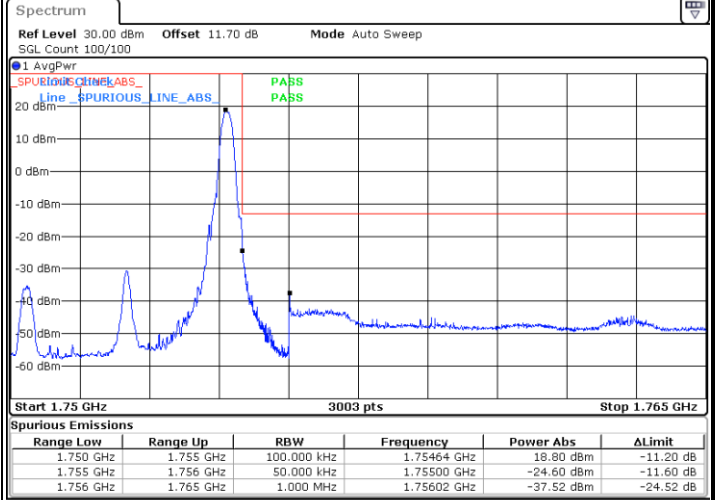


LTE Band 4 / 5MHz / 64QAM

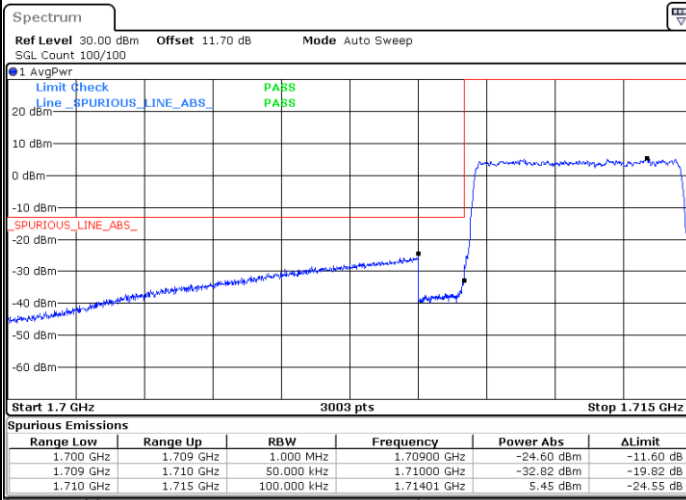
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

