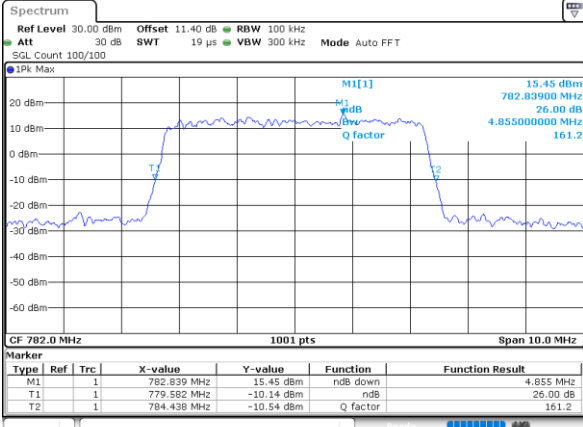




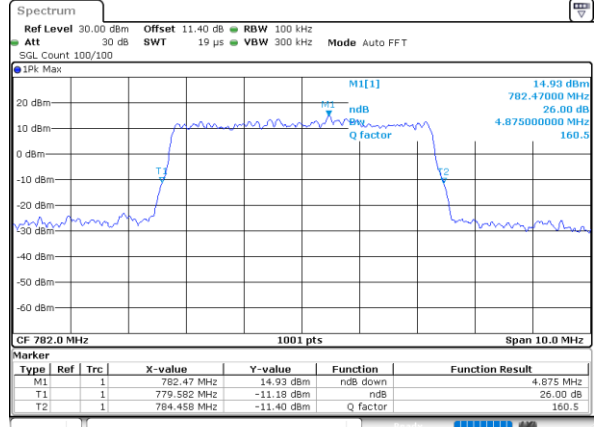
LTE Band 13

Middle Channel / 5MHz / QPSK



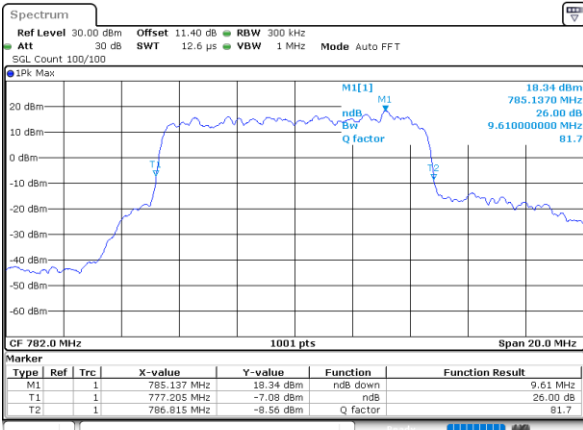
Date: 22\_APR\_2021 14:23:46

Middle Channel / 5MHz / 16QAM



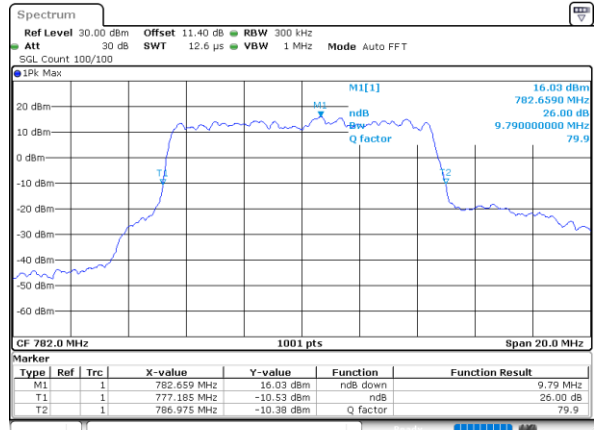
Date: 22\_APR\_2021 14:23:58

Middle Channel / 10MHz / QPSK



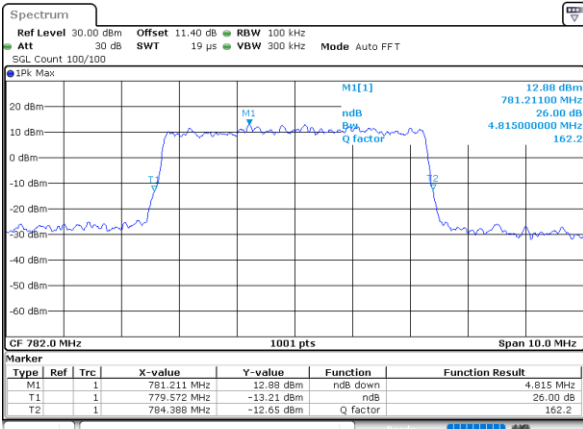
Date: 22\_APR\_2021 14:40:41

Middle Channel / 10MHz / 16QAM



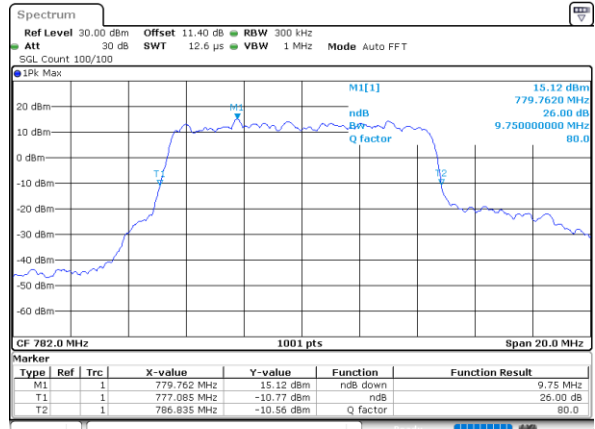
Date: 22\_APR\_2021 14:40:30

Middle Channel / 5MHz / 64QAM



Date: 22\_APR\_2021 14:36:19

Middle Channel / 10MHz / 64QAM



Date: 22\_APR\_2021 14:51:39



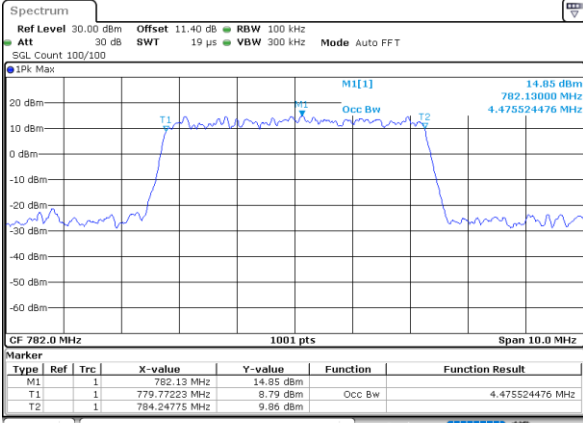
**Occupied Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.48	4.47	8.95	8.95	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.48	-	8.97	-	-	-	-	-



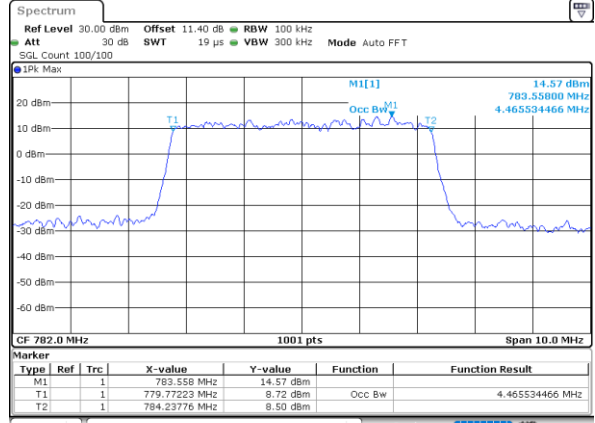
LTE Band 13

Middle Channel / 5MHz / QPSK



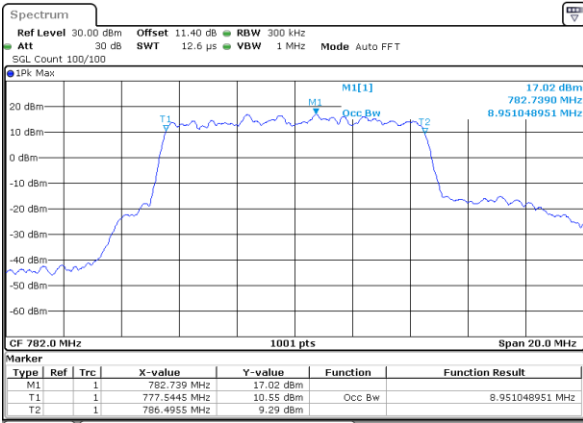
Date: 22\_APR.2021 14:24:20

Middle Channel / 5MHz / 16QAM



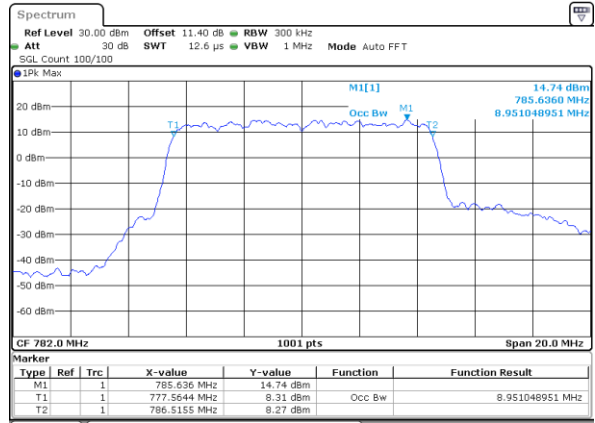
Date: 22\_APR.2021 14:24:09

Middle Channel / 10MHz / QPSK



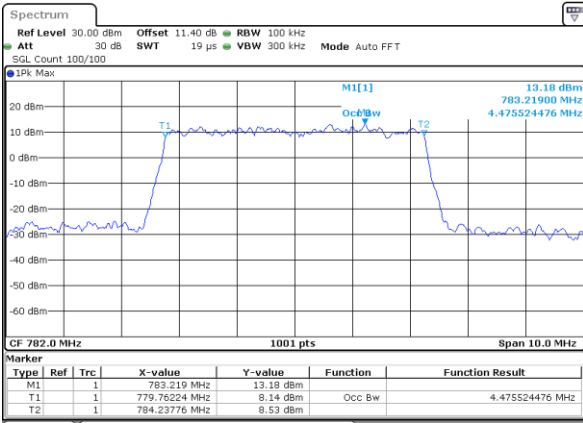
Date: 22\_APR.2021 14:40:07

Middle Channel / 10MHz / 16QAM



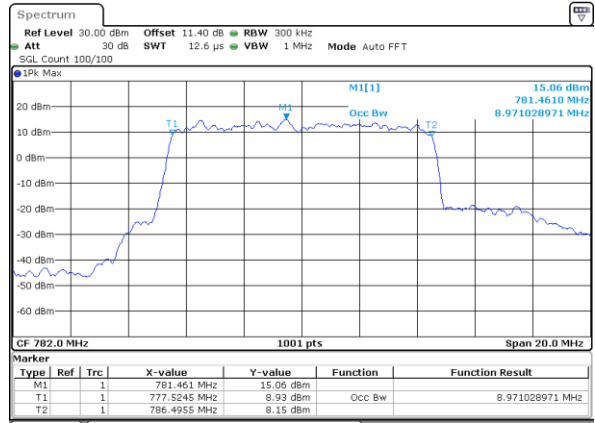
Date: 22\_APR.2021 14:40:19

Middle Channel / 5MHz / 64QAM



Date: 22\_APR.2021 14:36:30

Middle Channel / 10MHz / 64QAM



Date: 22\_APR.2021 14:51:27

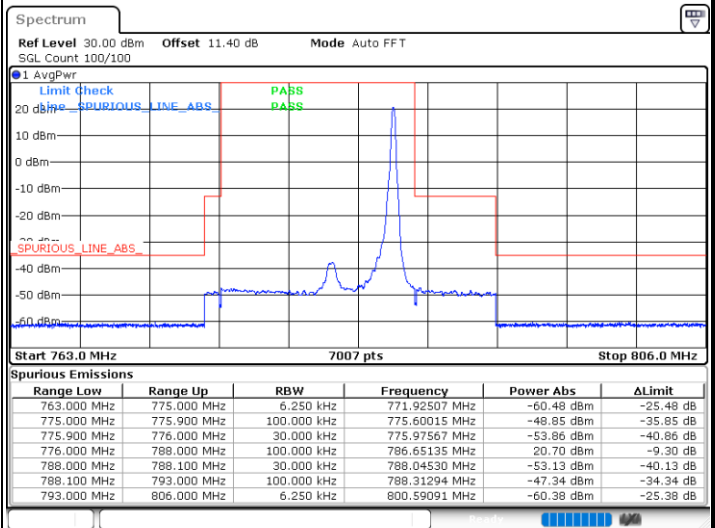
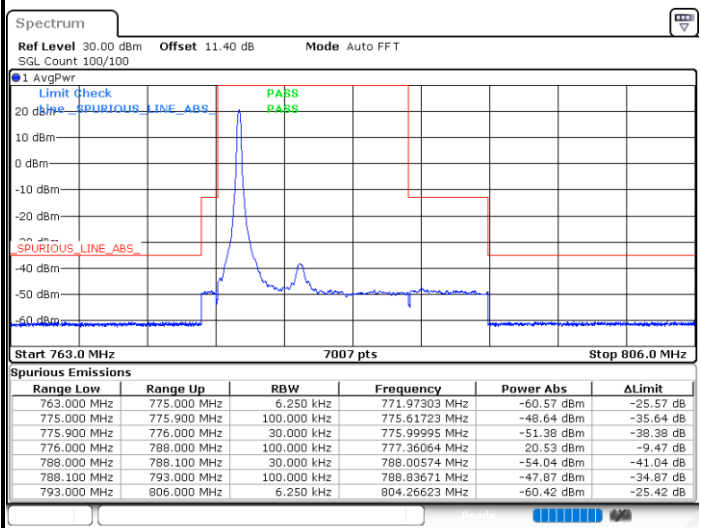


# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

### Highest Band Edge / 1 RB

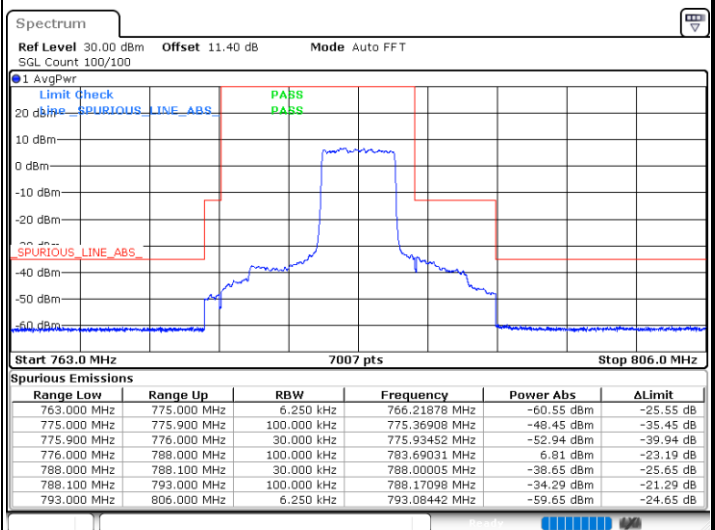
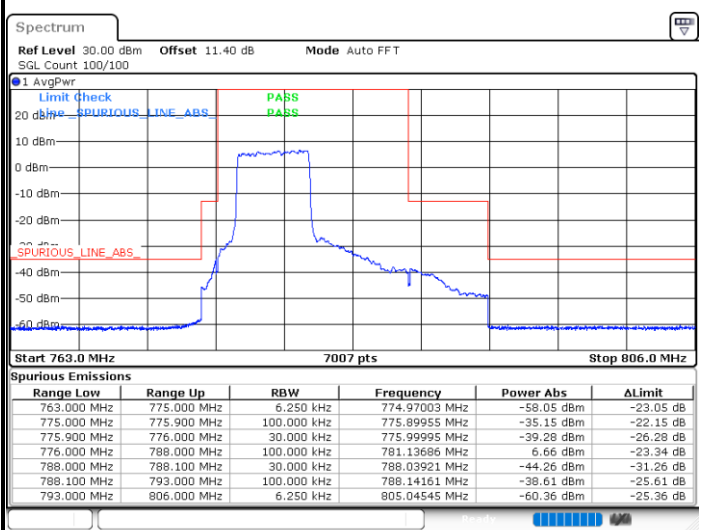


Date: 22.APR.2021 14:22:41

Date: 22.APR.2021 14:31:06

### Lowest Band Edge / Full RB

### Highest Band Edge / Full RB



Date: 22.APR.2021 14:17:34

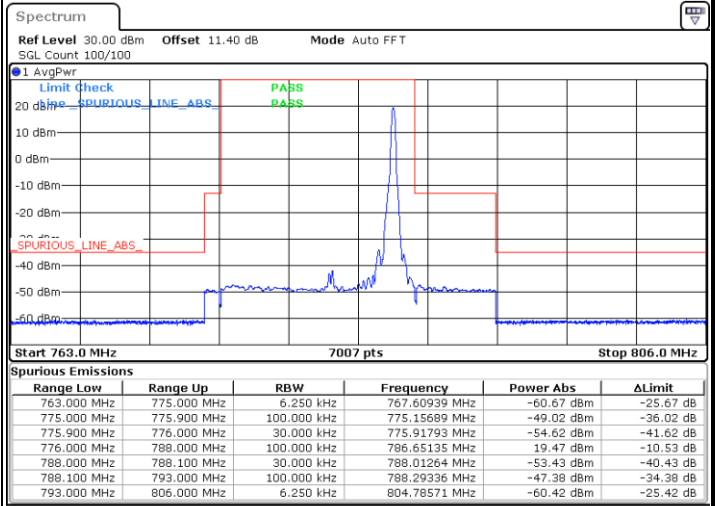
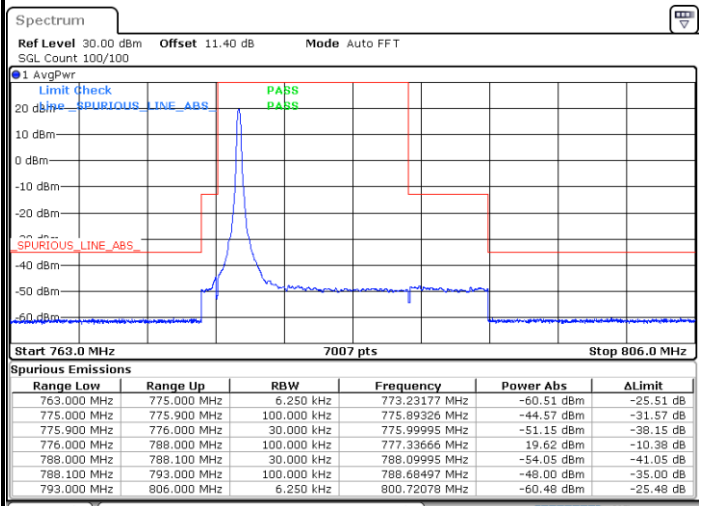
Date: 22.APR.2021 14:26:01



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

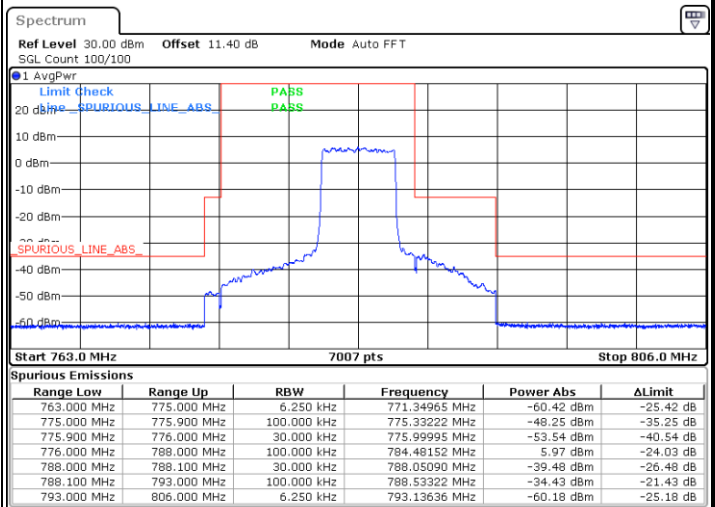
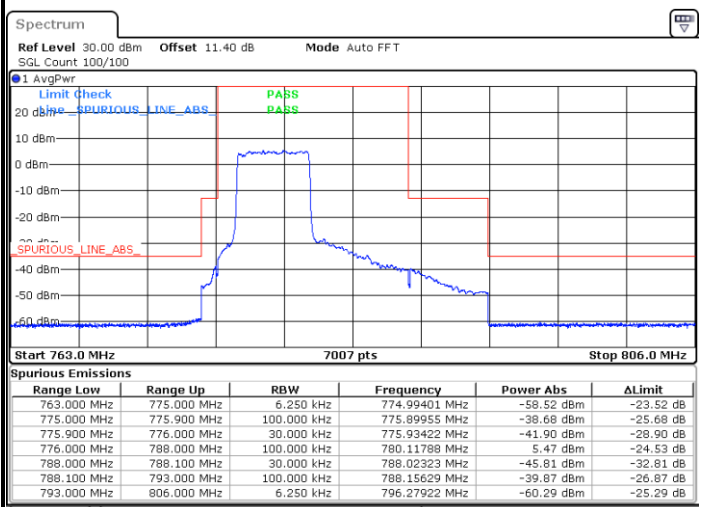


Date: 22.APR.2021 14:20:59

Date: 22.APR.2021 14:29:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.APR.2021 14:19:16

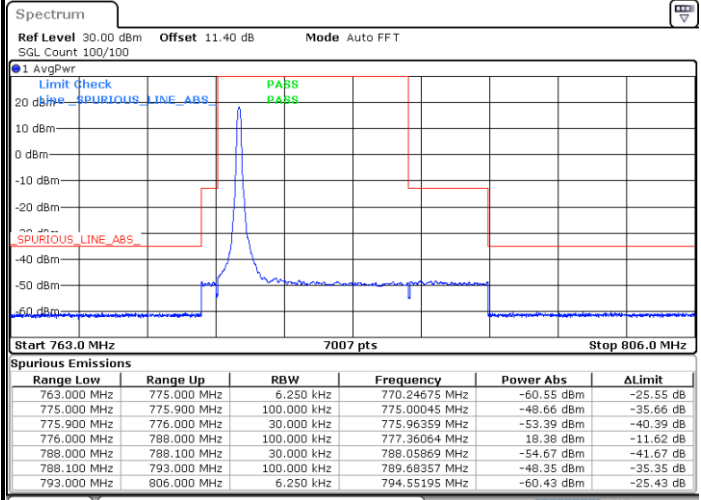
Date: 22.APR.2021 14:27:42



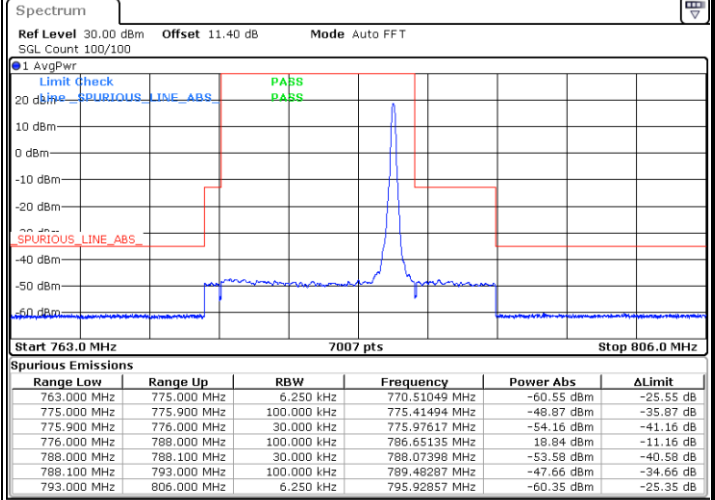
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



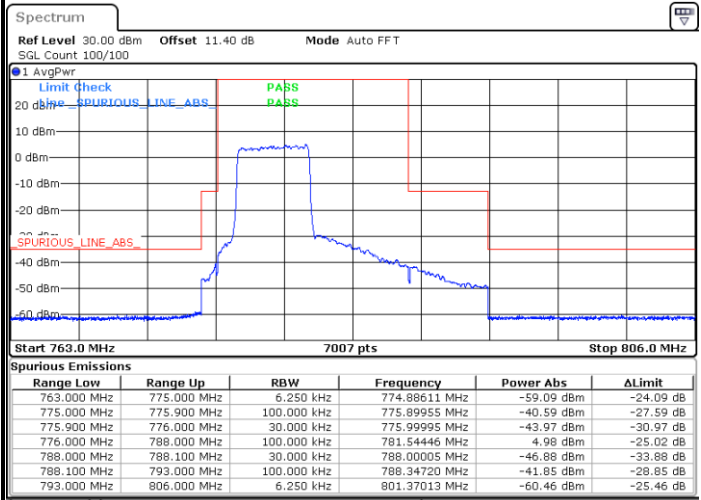
Date: 22.APR.2021 14:36:06



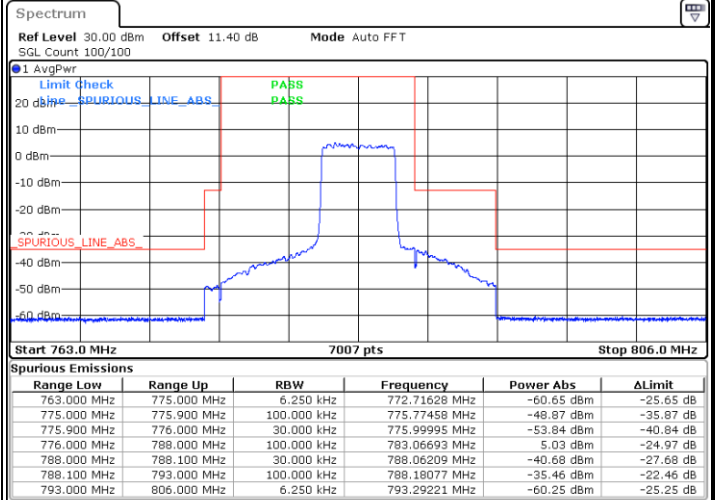
Date: 22.APR.2021 14:39:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.APR.2021 14:33:16



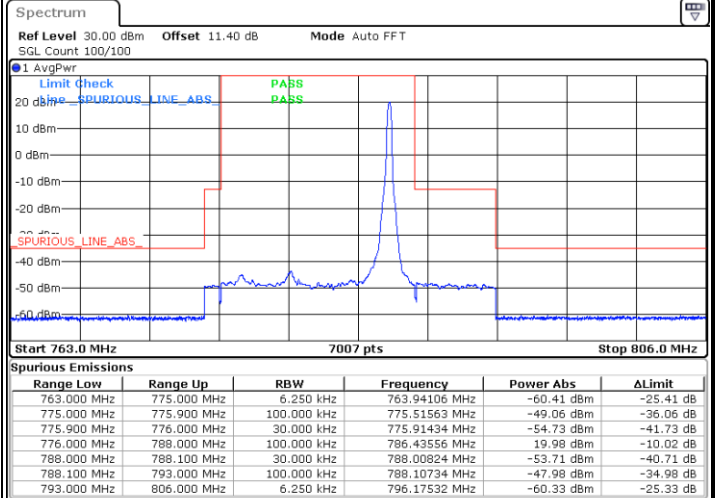
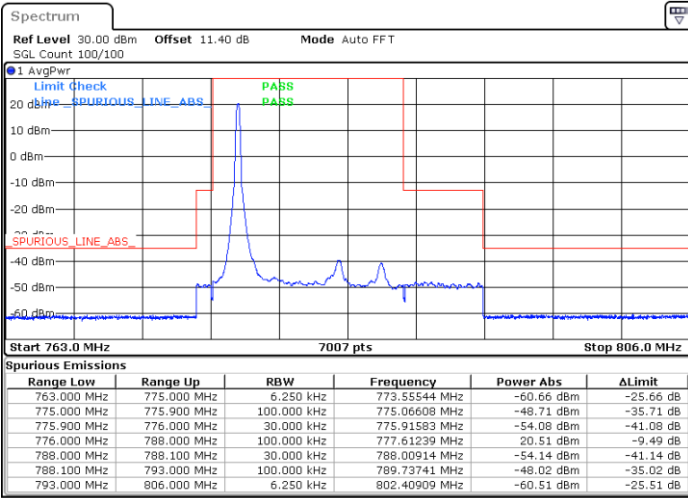
Date: 22.APR.2021 14:38:10



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

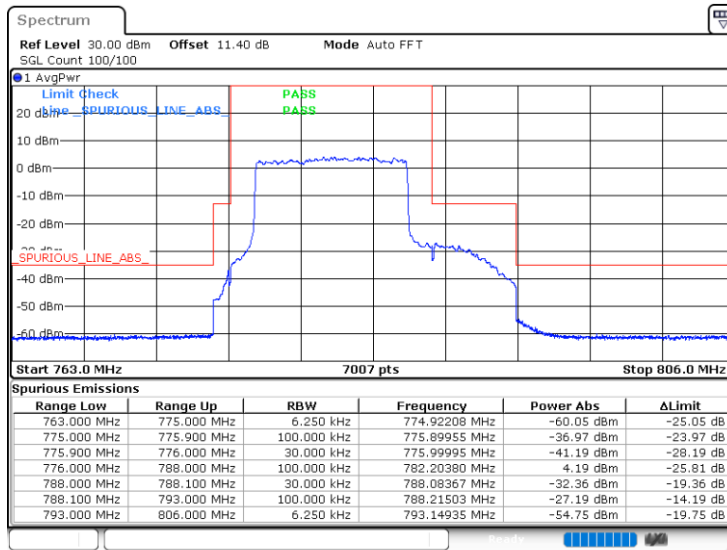
Highest Band Edge / 1 RB



Date: 22.APR.2021 14:47:25

Date: 22.APR.2021 14:49:07

Band Edge / Full RB

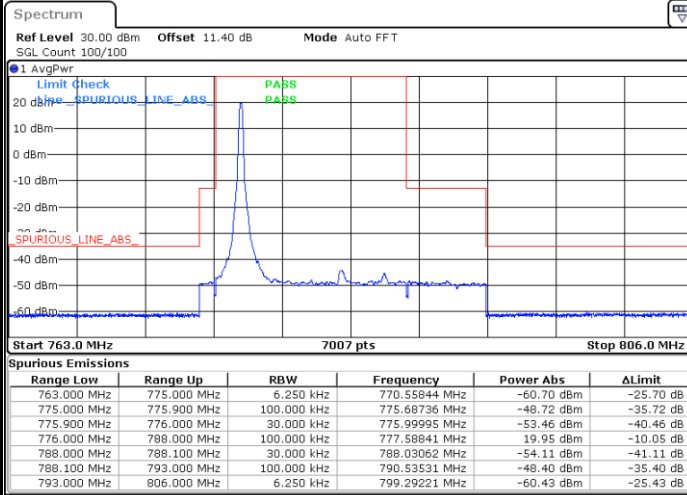


Date: 22.APR.2021 14:42:22



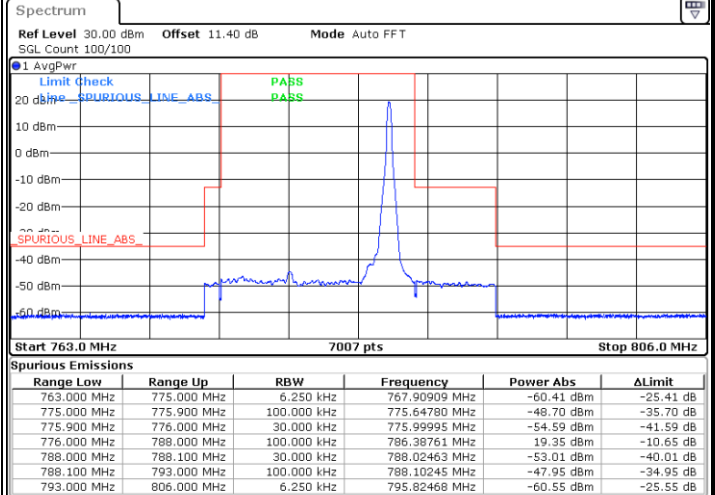
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



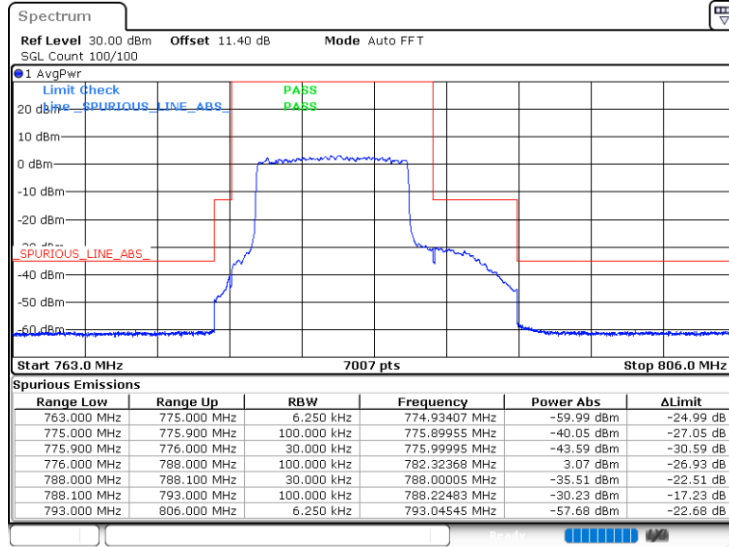
Date: 22.APR.2021 14:45:44

Highest Band Edge / 1 RB



Date: 22.APR.2021 14:50:48

Band Edge / Full RB



Date: 22.APR.2021 14:44:03

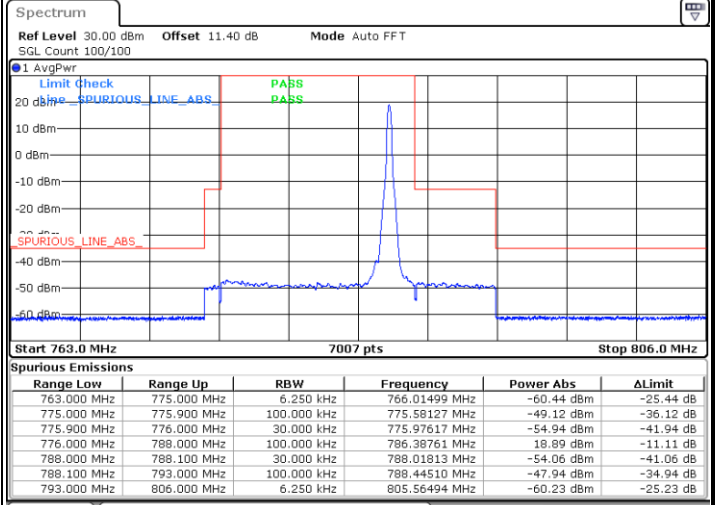
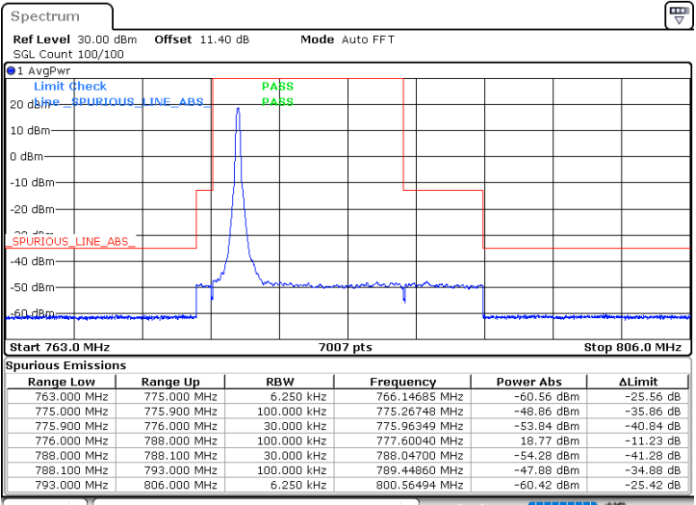




LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

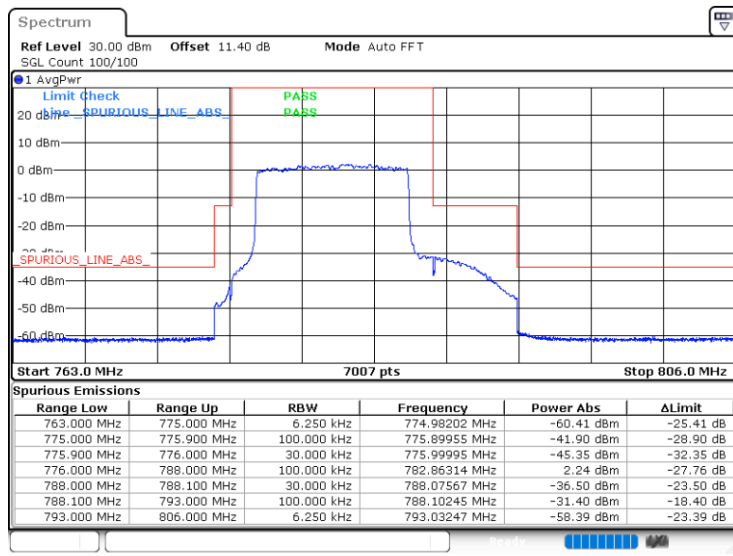
Highest Band Edge / 1 RB



Date: 22.APR.2021 14:55:00

Date: 22.APR.2021 14:56:41

Band Edge / Full RB



Date: 22.APR.2021 14:53:18

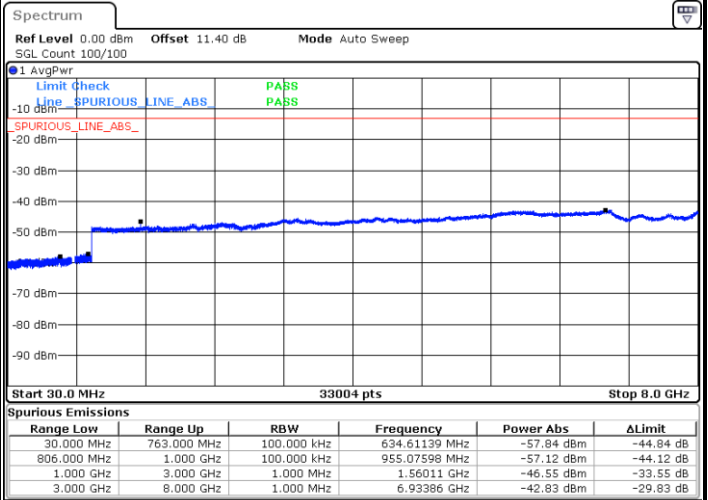
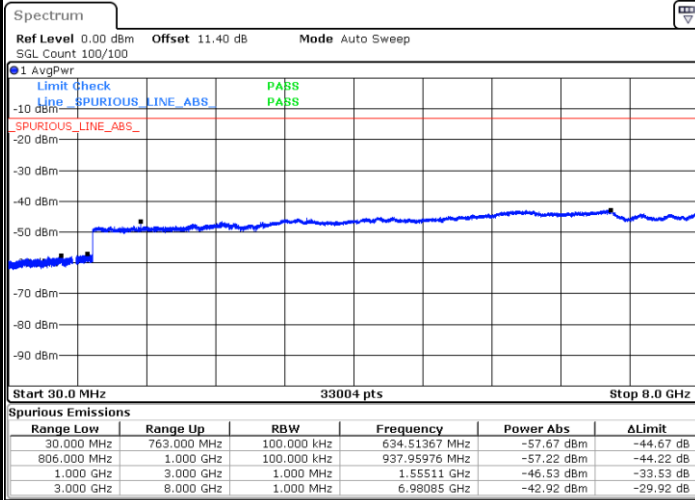


# Conducted Spurious Emission

## LTE Band 13 / 5MHz

### Lowest Channel / QPSK

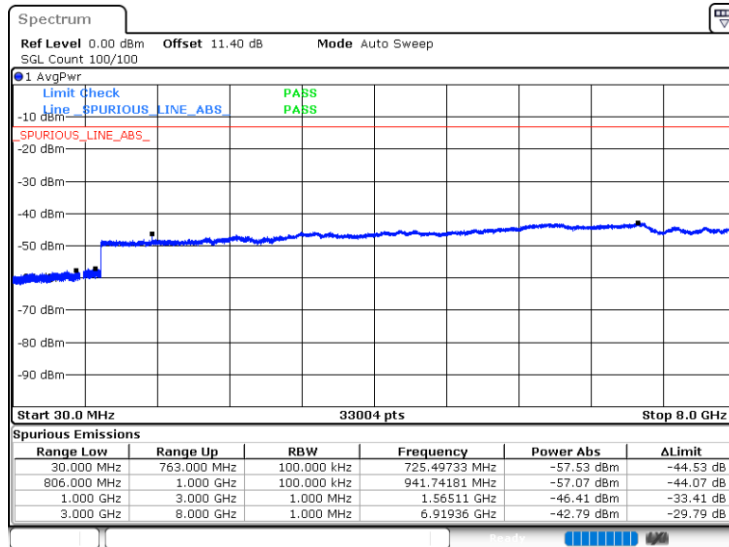
### Middle Channel / QPSK



Date: 22.APR.2021 14:59:05

Date: 22.APR.2021 14:59:32

### Highest Channel / QPSK

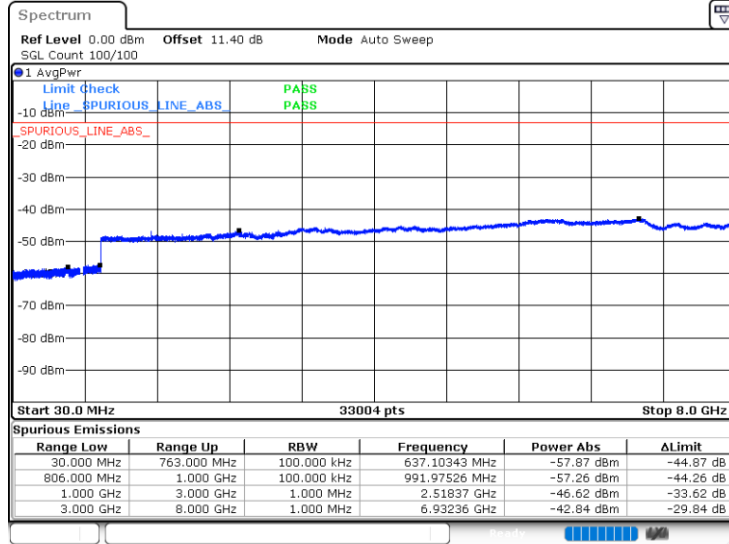


Date: 22.APR.2021 14:59:58



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22.APR.2021 15:00:26



### Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0134	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0119	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0100	
-10	Normal Voltage	0.0121	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0119	

**Note:**

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 25

<Main>

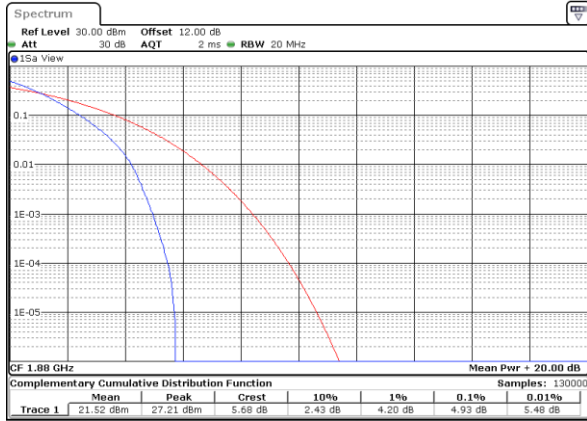
### Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.97	6.52	-	PASS



LTE Band 25 / 20MHz / QPSK

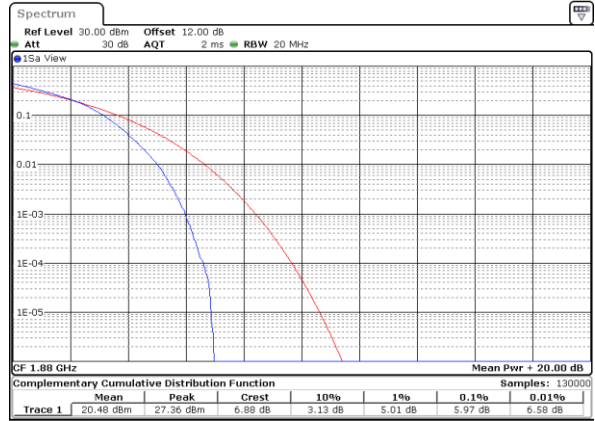
Middle Channel / Full RB



Date: 18.APR.2021 09:07:01

LTE Band 25 / 20MHz / 16QAM

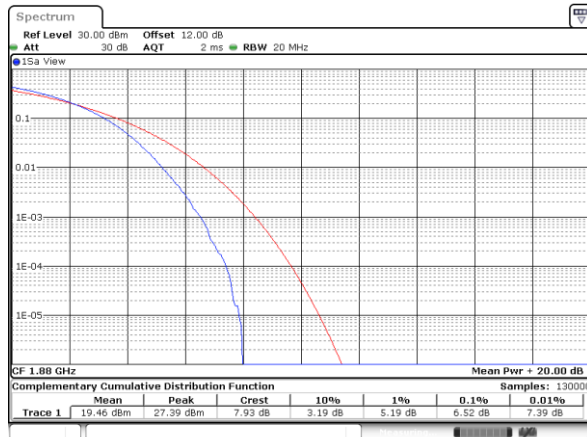
Middle Channel / Full RB



Date: 18.APR.2021 09:06:47

LTE Band 25 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 18.APR.2021 09:06:33



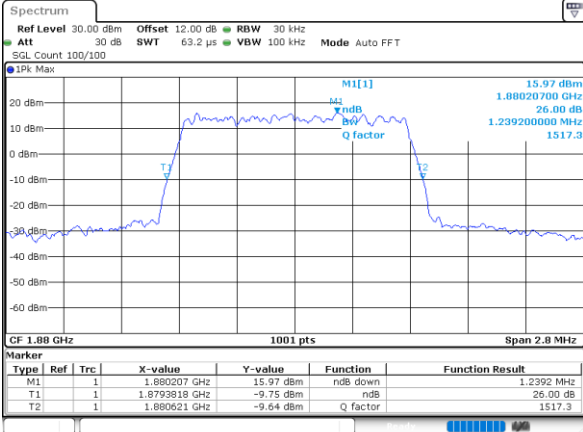
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.24	1.21	3.05	3.04	4.88	4.86	9.71	9.75	14.15	14.18	19.14	19.14
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.23	-	3.00	-	4.78	-	9.75	-	14.18		19.14	-



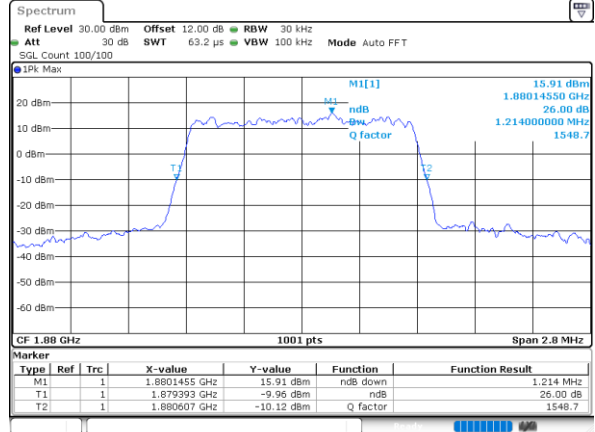
LTE Band 25

Middle Channel / 1.4MHz / QPSK



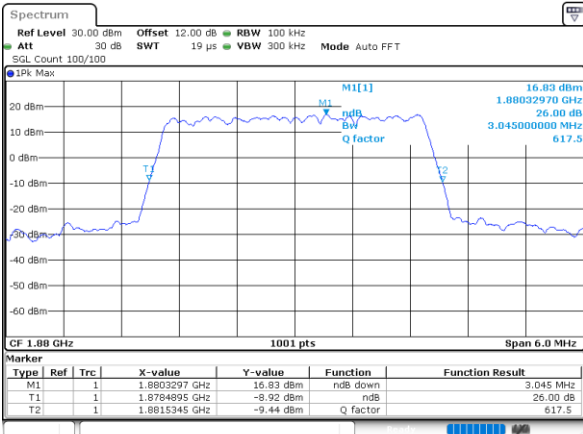
Date: 18.APR.2021 07:05:54

Middle Channel / 1.4MHz / 16QAM



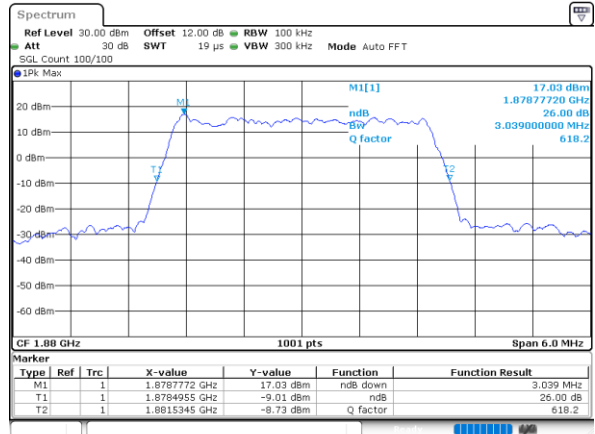
Date: 18.APR.2021 07:06:06

Middle Channel / 3MHz / QPSK



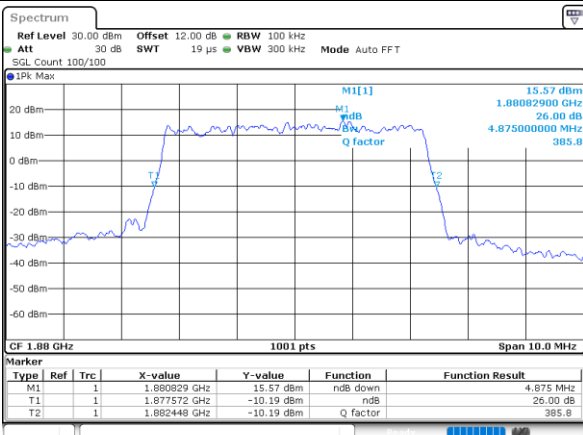
Date: 18.APR.2021 07:55:51

Middle Channel / 3MHz / 16QAM



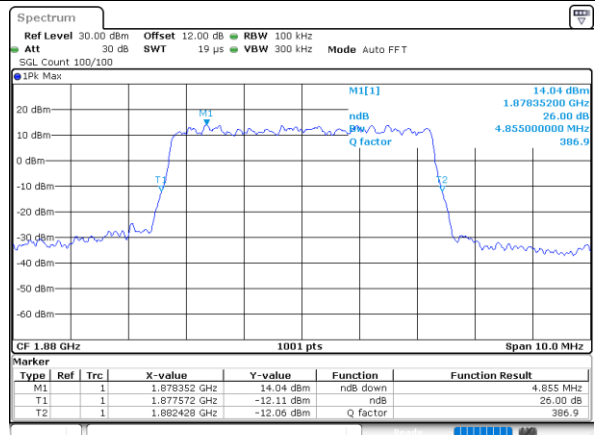
Date: 18.APR.2021 07:56:03

Middle Channel / 5MHz / QPSK



Date: 18.APR.2021 08:41:48

Middle Channel / 5MHz / 16QAM



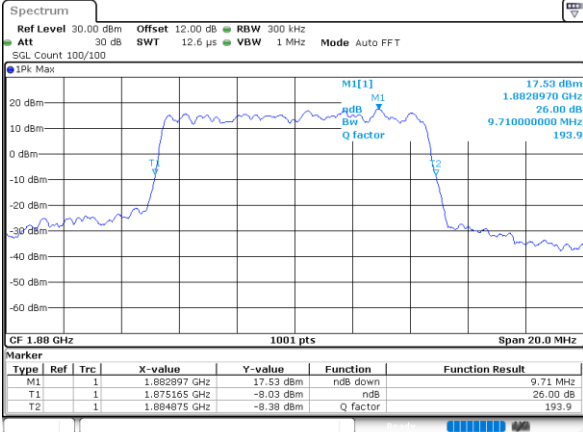
Date: 18.APR.2021 08:42:01





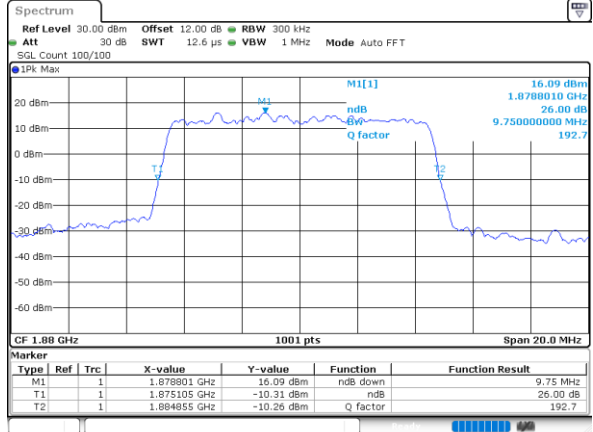
LTE Band 25

Middle Channel / 10MHz / QPSK



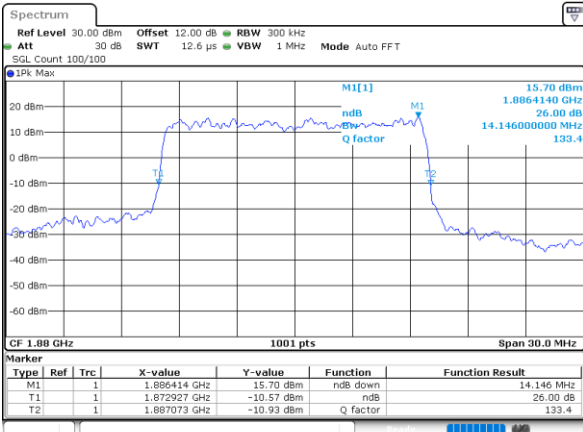
Date: 18\_APR.2021 08:48:29

Middle Channel / 10MHz / 16QAM



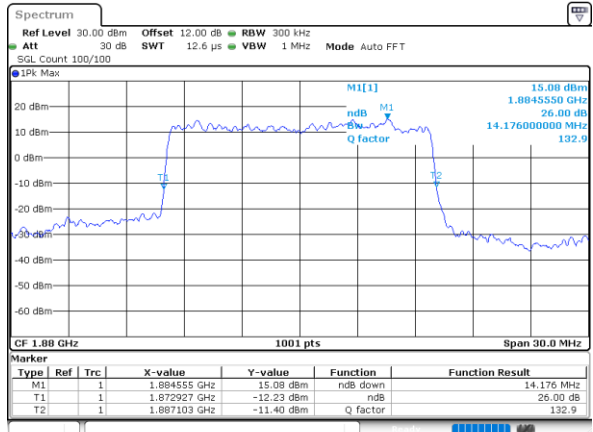
Date: 18\_APR.2021 08:48:40

Middle Channel / 15MHz / QPSK



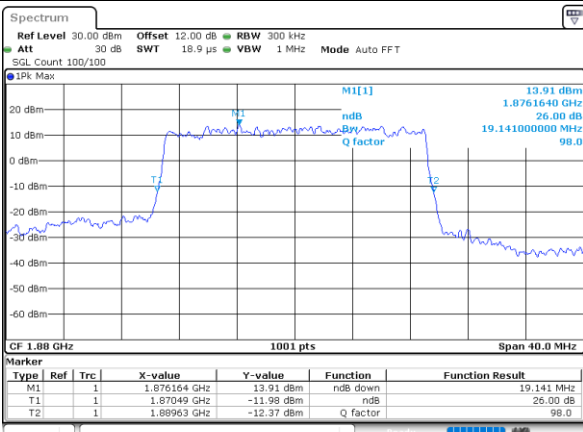
Date: 18\_APR.2021 08:56:56

Middle Channel / 15MHz / 16QAM



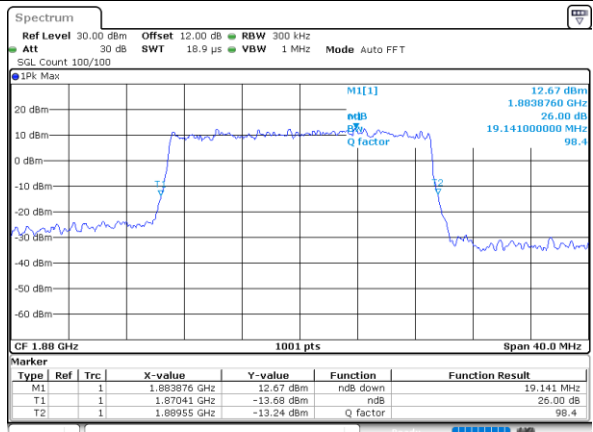
Date: 18\_APR.2021 08:57:08

Middle Channel / 20MHz / QPSK



Date: 18\_APR.2021 09:02:06

Middle Channel / 20MHz / 16QAM

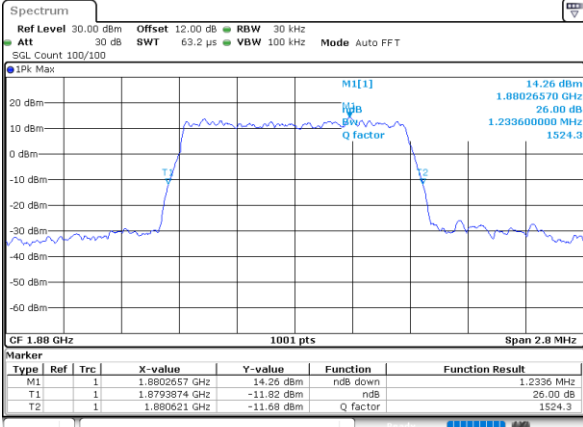


Date: 18\_APR.2021 09:02:17



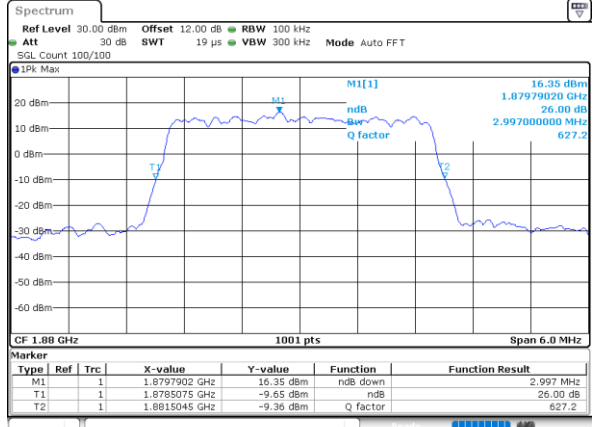
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



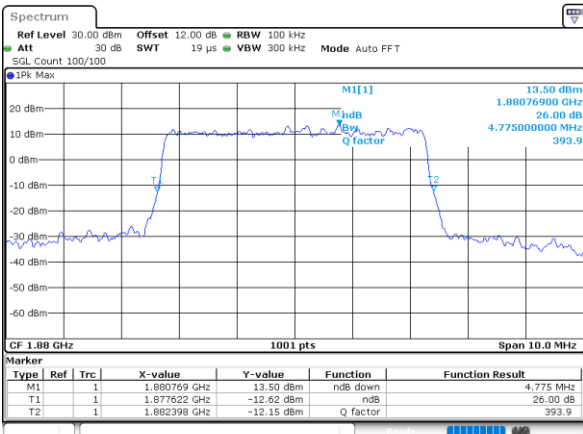
Date: 18.APR.2021 07:09:35

Middle Channel / 3MHz / 64QAM



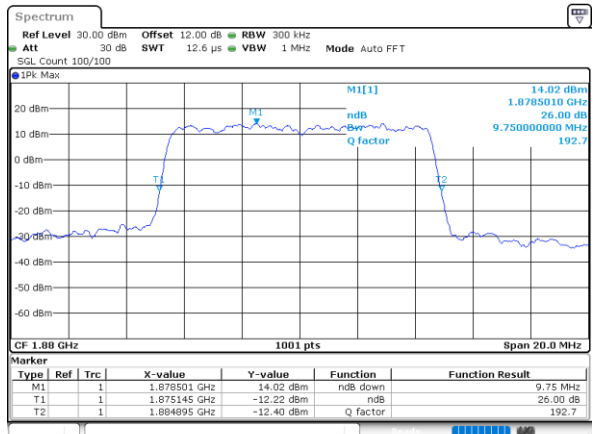
Date: 18.APR.2021 07:11:07

Middle Channel / 5MHz / 64QAM



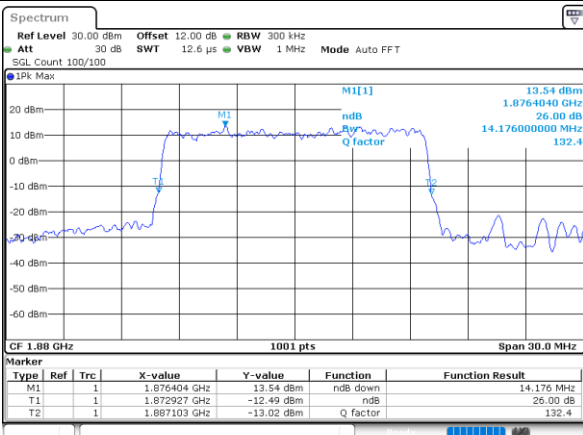
Date: 18.APR.2021 08:45:29

Middle Channel / 10MHz / 64QAM



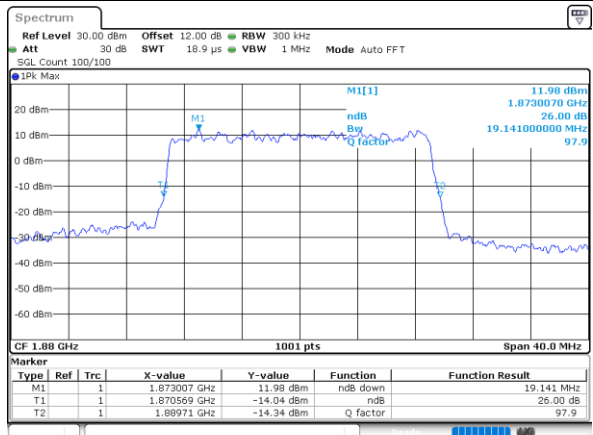
Date: 18.APR.2021 08:52:09

Middle Channel / 15MHz / 64QAM



Date: 18.APR.2021 08:53:40

Middle Channel / 20MHz / 64QAM



Date: 18.APR.2021 09:05:46



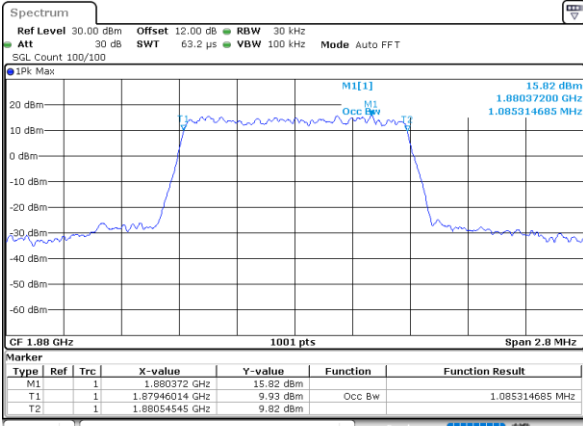
**Occupied Bandwidth**

Mode	LTE Band 25 : 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	1.09	1.09	2.72	2.72	4.49	4.49	9.01	9.01	13.43	13.49	17.90	17.82
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.09	-	2.73	-	4.48	-	9.03	-	13.43	-	17.82	-



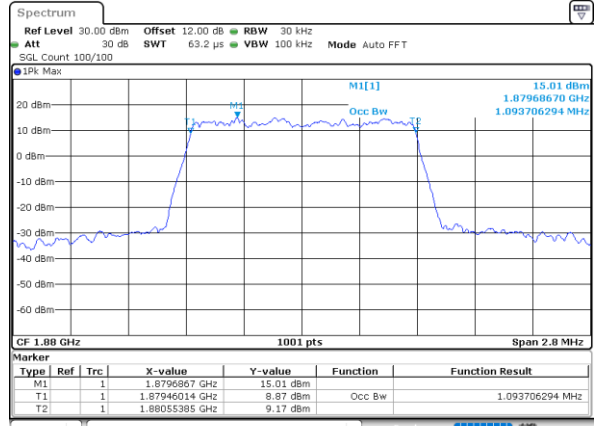
LTE Band 25

Middle Channel / 1.4MHz / QPSK



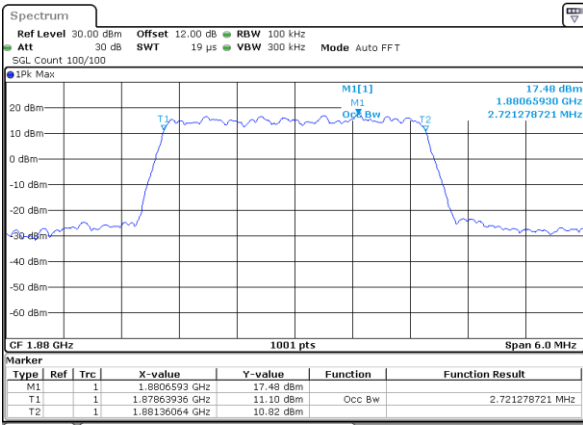
Date: 18\_APR.2021 07:05:30

Middle Channel / 1.4MHz / 16QAM



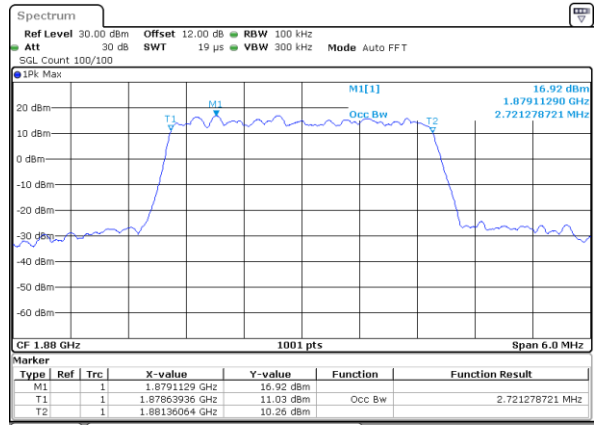
Date: 18\_APR.2021 07:05:42

Middle Channel / 3MHz / QPSK



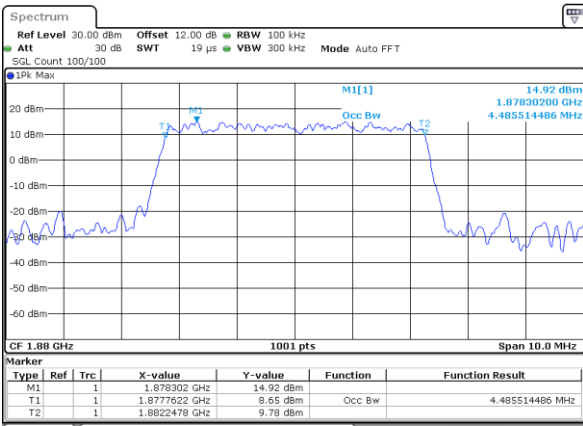
Date: 18\_APR.2021 07:55:28

Middle Channel / 3MHz / 16QAM



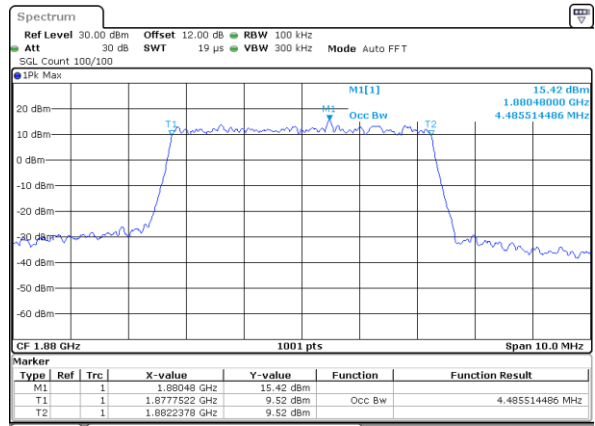
Date: 18\_APR.2021 07:55:39

Middle Channel / 5MHz / QPSK



Date: 18\_APR.2021 08:41:25

Middle Channel / 5MHz / 16QAM

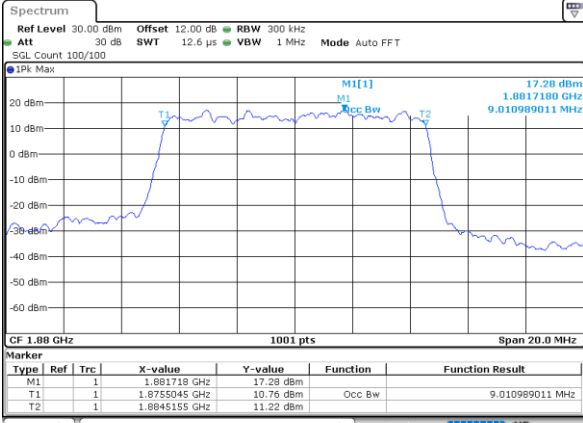


Date: 18\_APR.2021 08:41:37



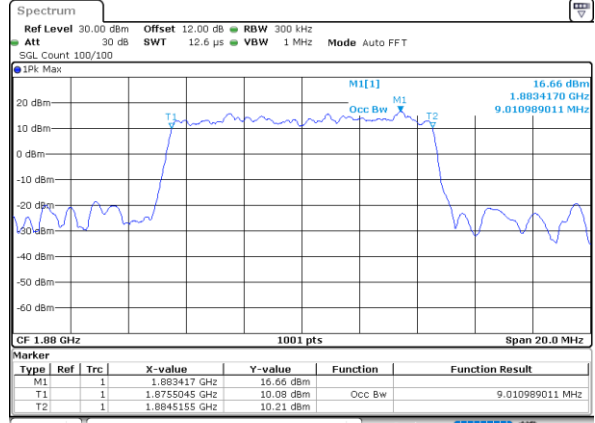
LTE Band 25

Middle Channel / 10MHz / QPSK



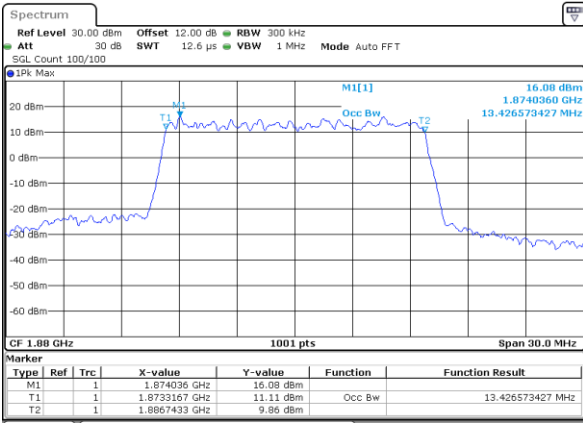
Date: 18\_APR.2021 08:48:05

Middle Channel / 10MHz / 16QAM



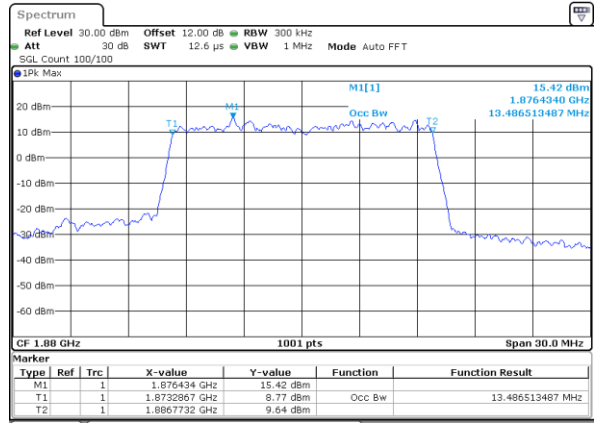
Date: 18\_APR.2021 08:48:17

Middle Channel / 15MHz / QPSK



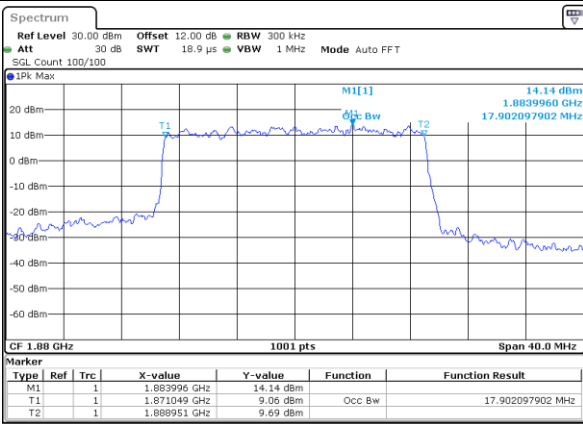
Date: 18\_APR.2021 08:56:33

Middle Channel / 15MHz / 16QAM



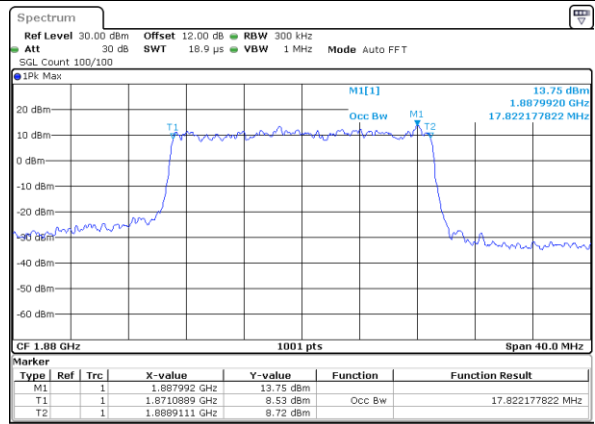
Date: 18\_APR.2021 08:56:44

Middle Channel / 20MHz / QPSK



Date: 18\_APR.2021 09:01:42

Middle Channel / 20MHz / 16QAM

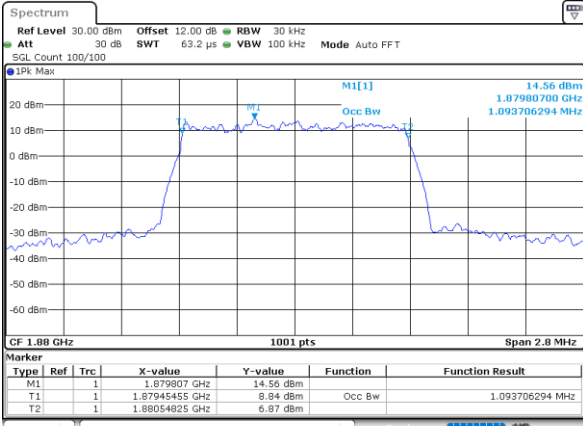


Date: 18\_APR.2021 09:01:54

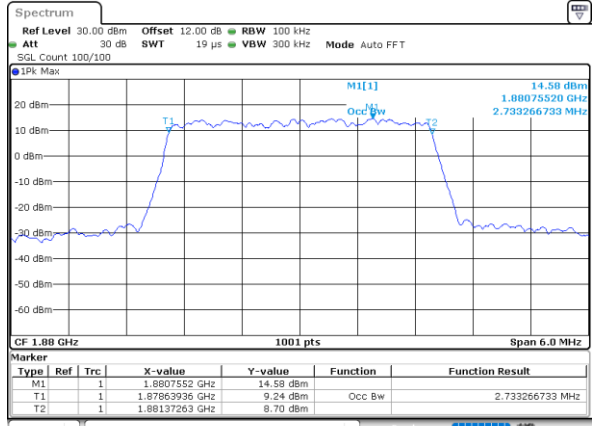


LTE Band 25

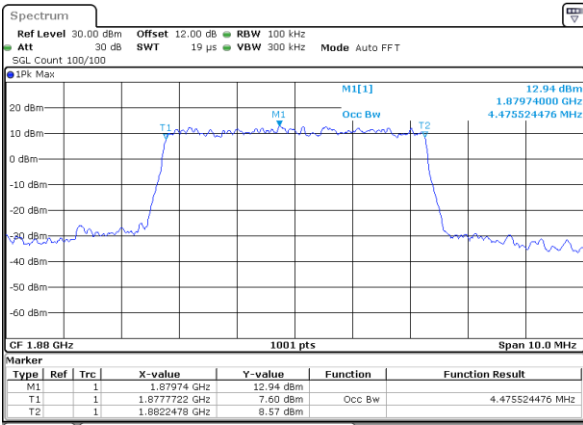
Middle Channel / 1.4MHz / 64QAM



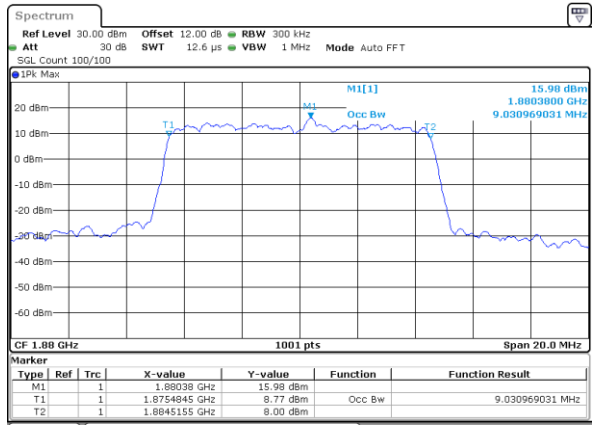
Middle Channel / 3MHz / 64QAM



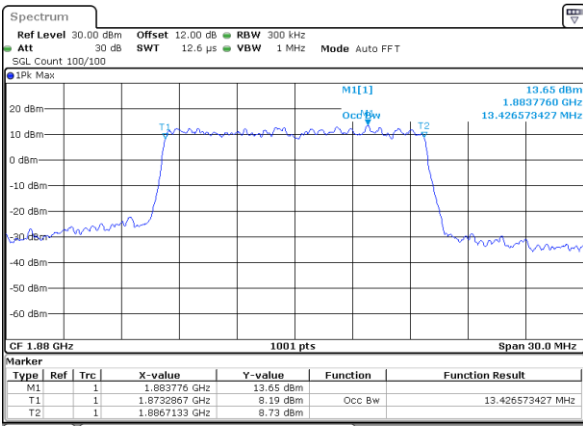
Middle Channel / 5MHz / 64QAM



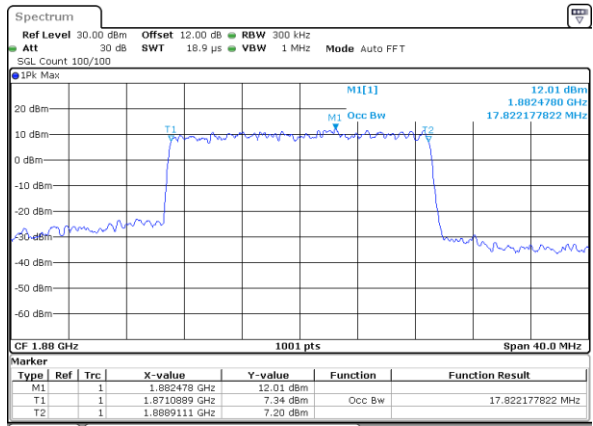
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

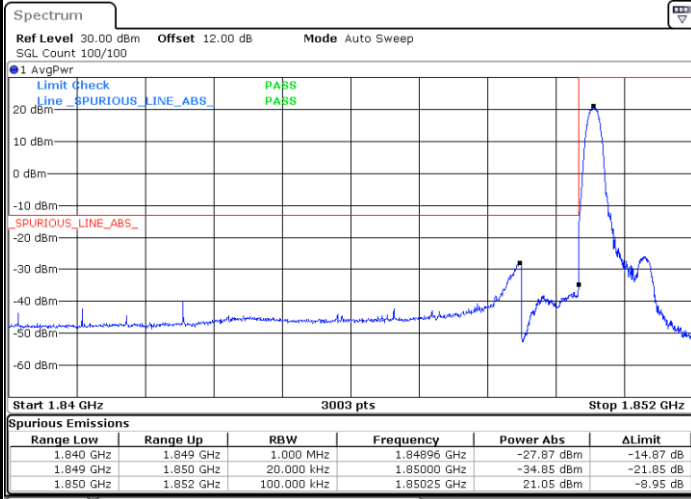




# Conducted Band Edge

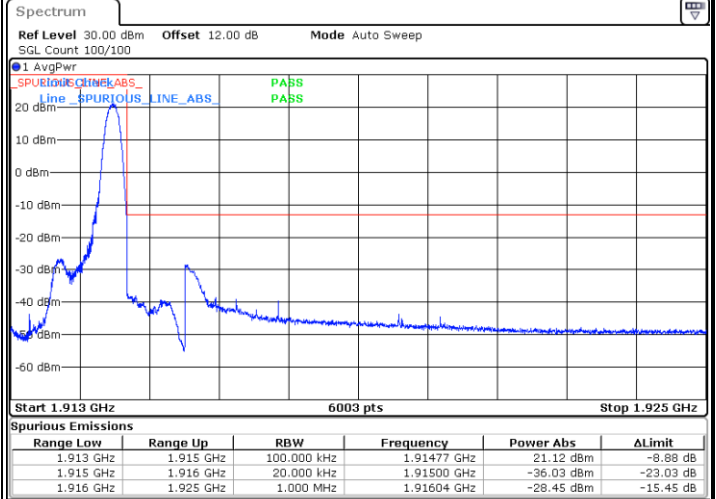
## LTE Band 25 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



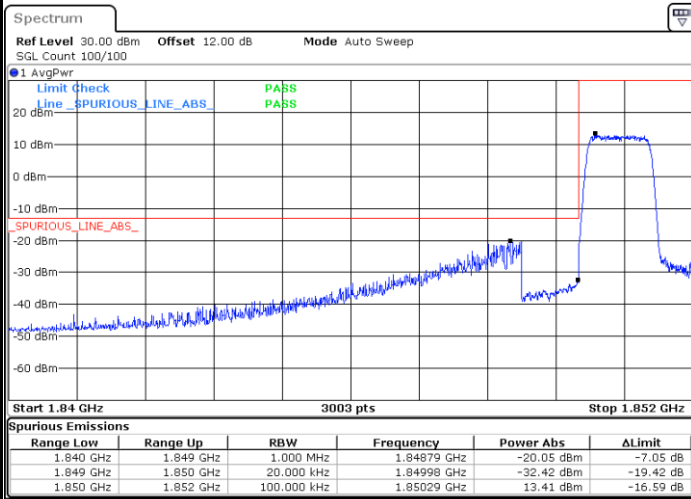
Date: 18.APR.2021 07:03:44

### Highest Band Edge / 1RB



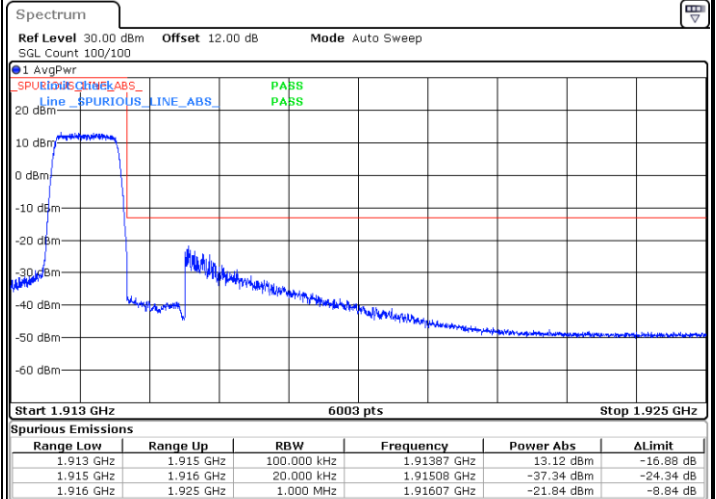
Date: 18.APR.2021 07:07:54

### Lowest Band Edge / Full RB



Date: 18.APR.2021 07:04:18

### Highest Band Edge / Full RB

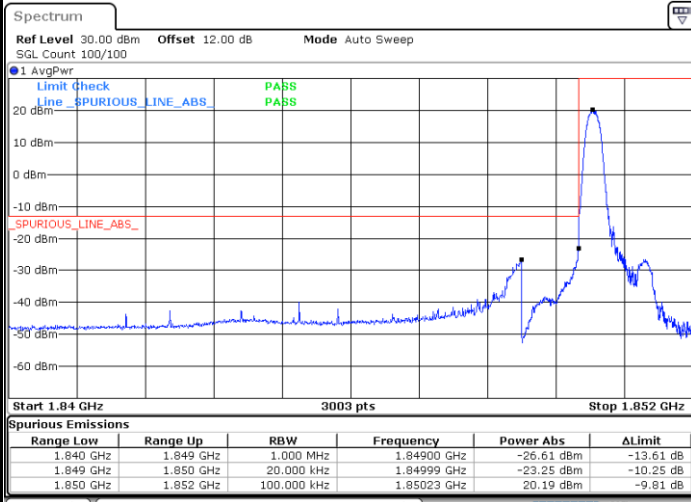


Date: 18.APR.2021 07:07:04

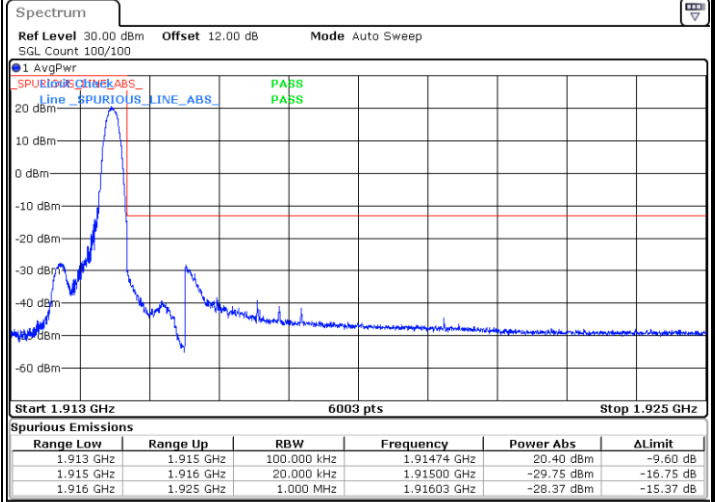


LTE Band 25 / 1.4MHz / 16QAM

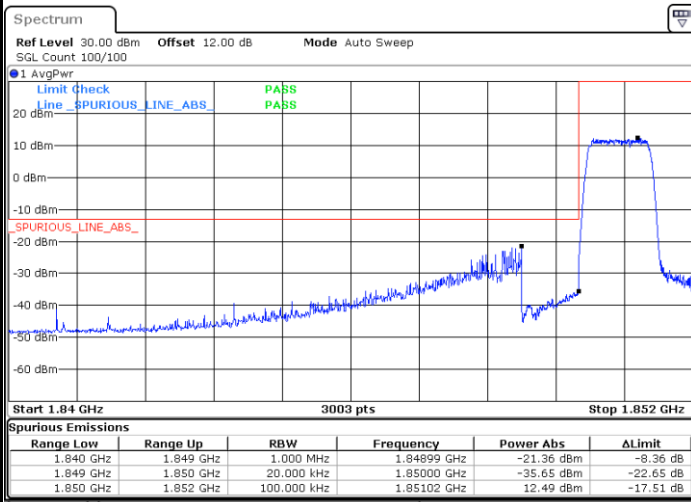
Lowest Band Edge / 1 RB



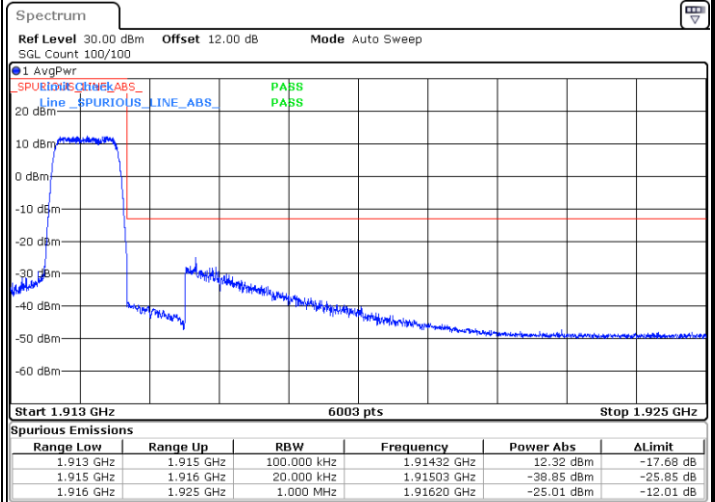
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

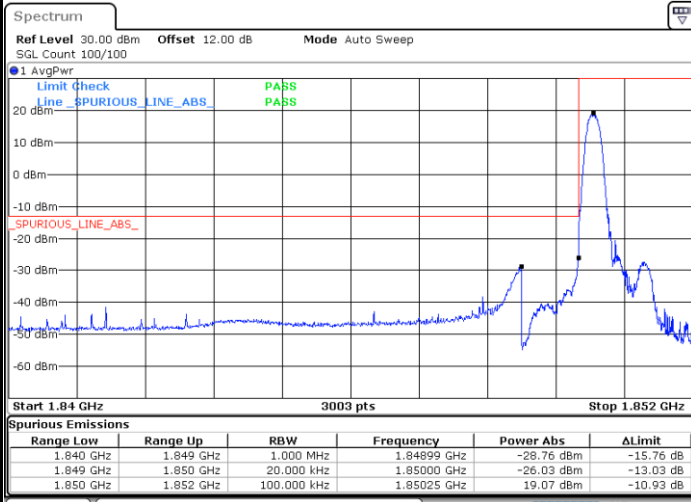






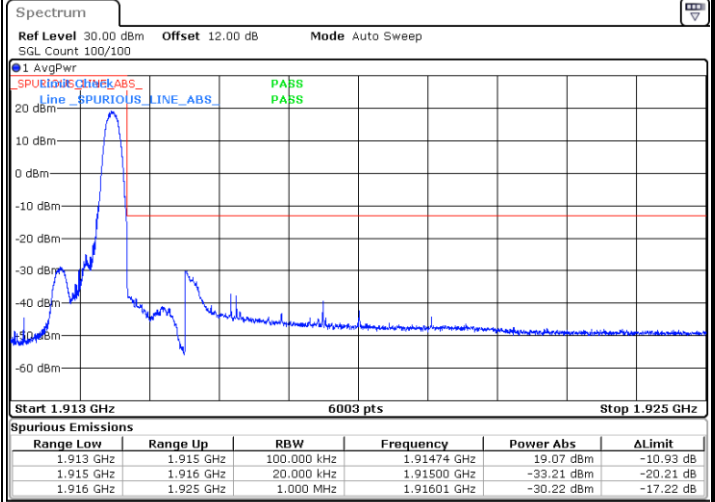
LTE Band 25 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



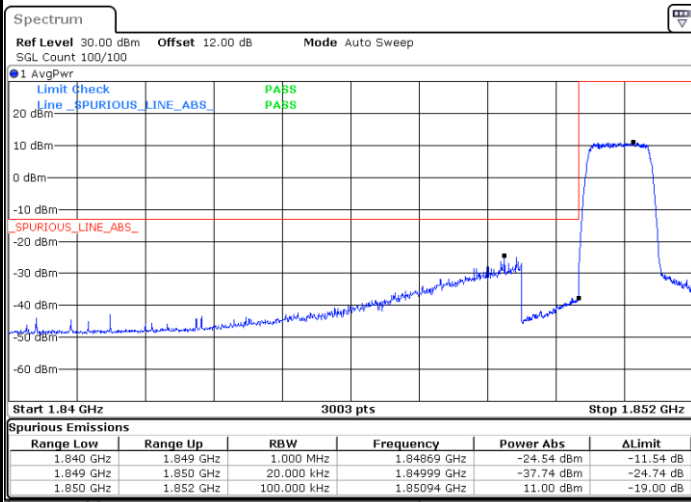
Date: 18.APR.2021 07:08:53

Highest Band Edge / 1 RB



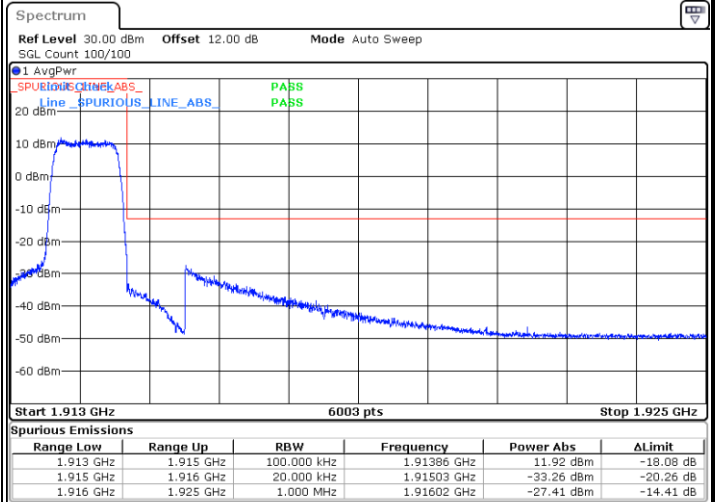
Date: 18.APR.2021 07:10:07

Lowest Band Edge / Full RB



Date: 18.APR.2021 07:09:10

Highest Band Edge / Full RB

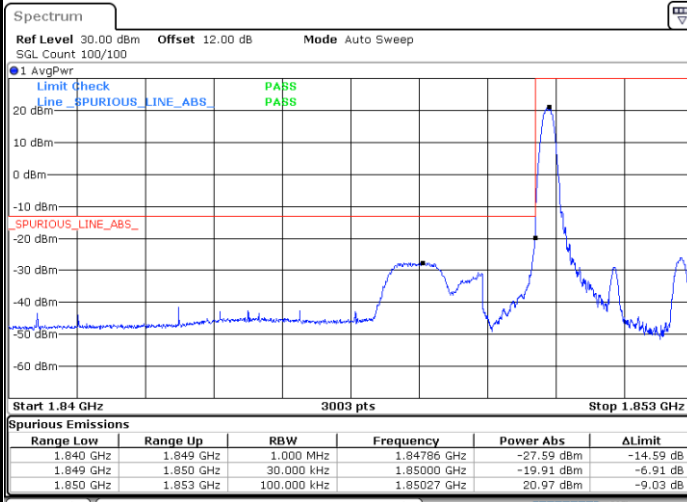


Date: 18.APR.2021 07:09:50



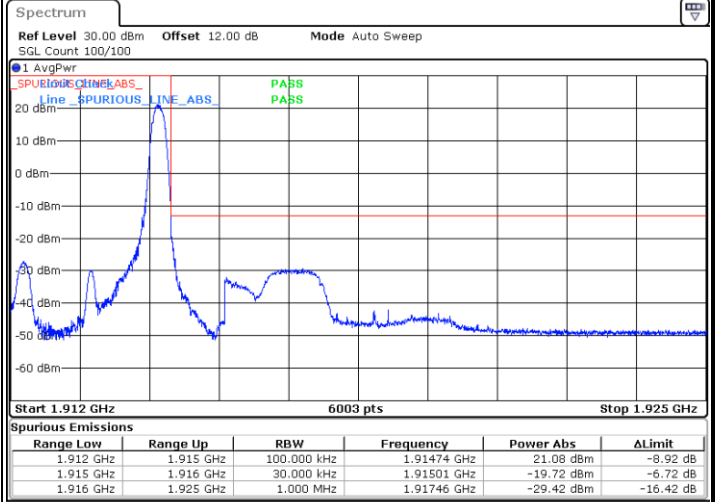
LTE Band 25 / 3MHz / QPSK

Lowest Band Edge / 1RB



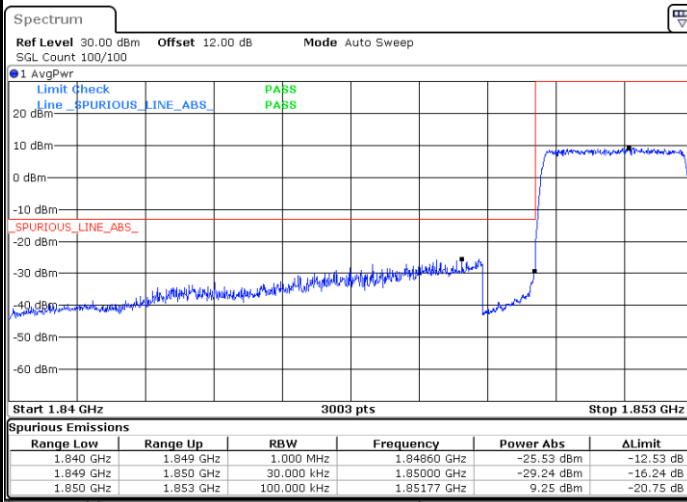
Date: 18.APR.2021 07:11:55

Highest Band Edge / 1 RB



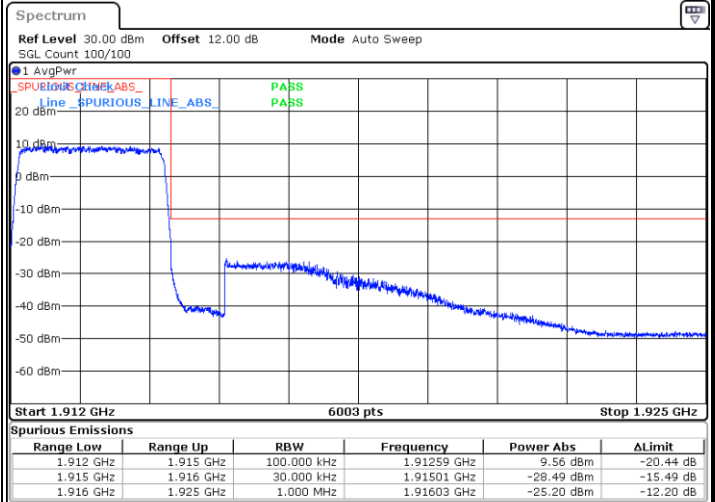
Date: 18.APR.2021 07:57:51

Lowest Band Edge / Full RB



Date: 18.APR.2021 07:54:15

Highest Band Edge / Full RB

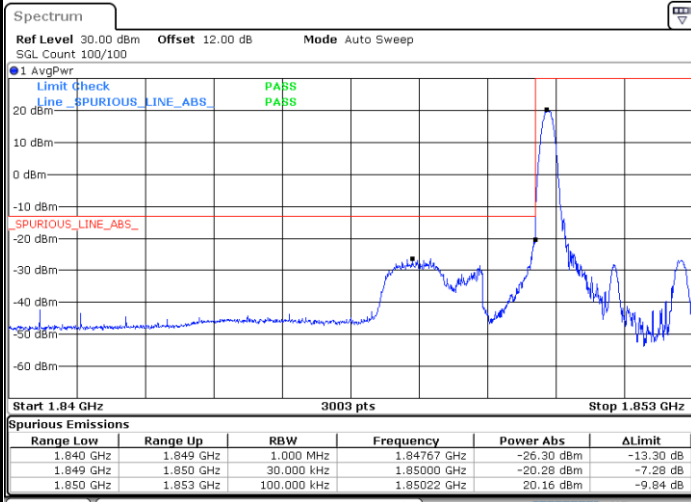


Date: 18.APR.2021 07:57:01



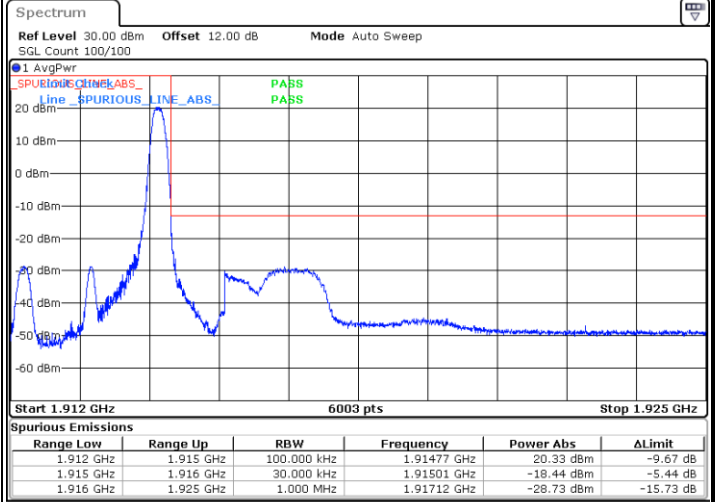
LTE Band 25 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



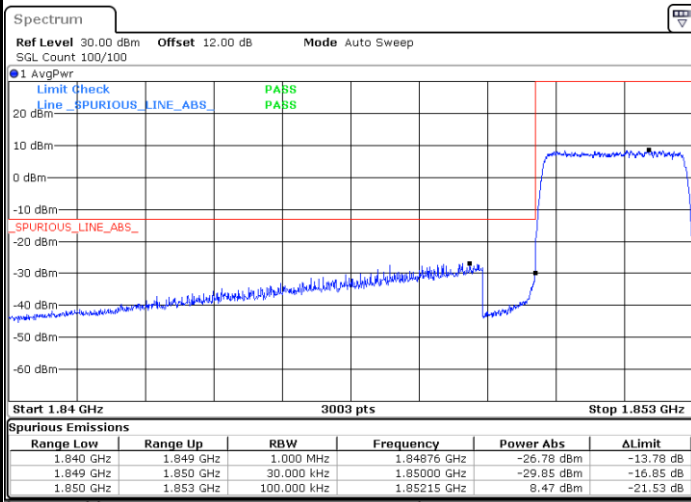
Date: 18.APR.2021 07:12:12

Highest Band Edge / 1 RB



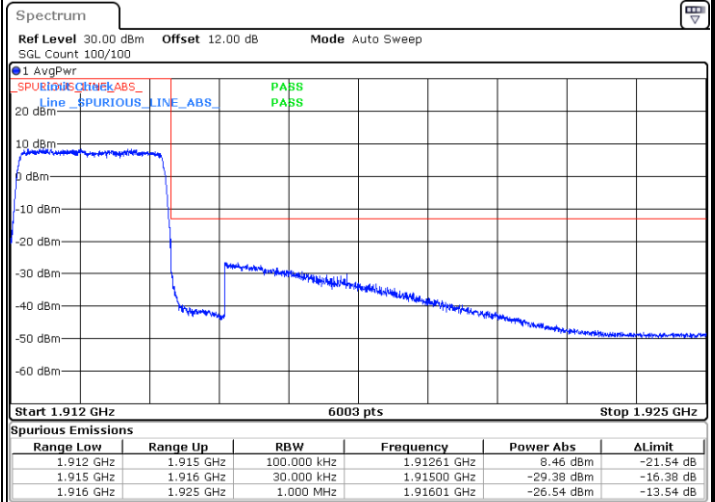
Date: 18.APR.2021 07:57:35

Lowest Band Edge / Full RB



Date: 18.APR.2021 07:54:32

Highest Band Edge / Full RB

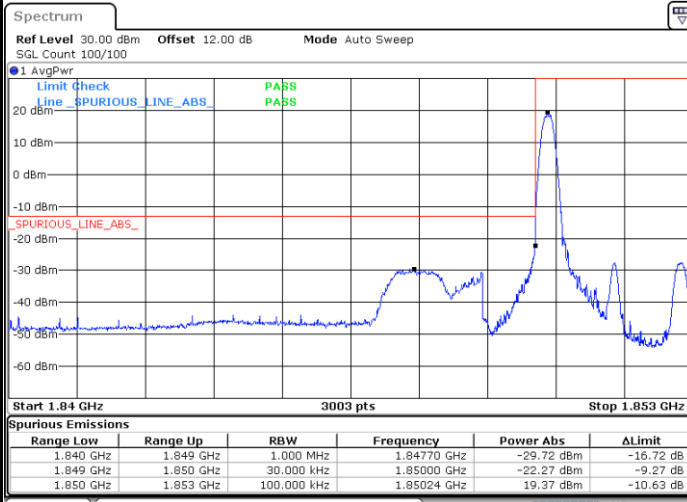


Date: 18.APR.2021 07:57:18



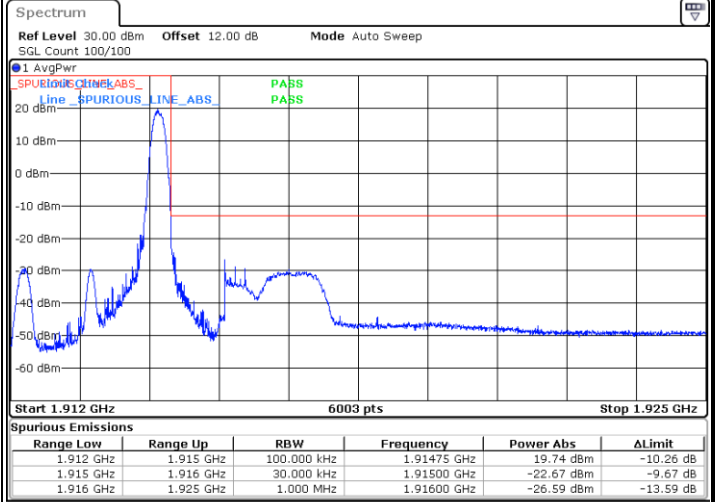
LTE Band 25 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



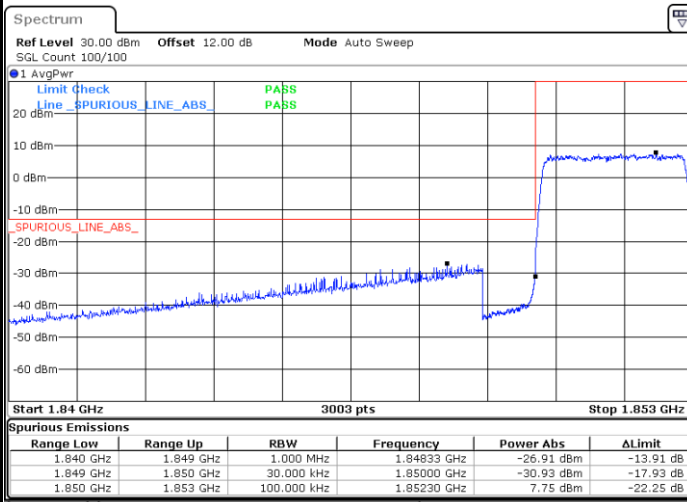
Date: 18.APR.2021 07:10:25

Highest Band Edge / 1 RB



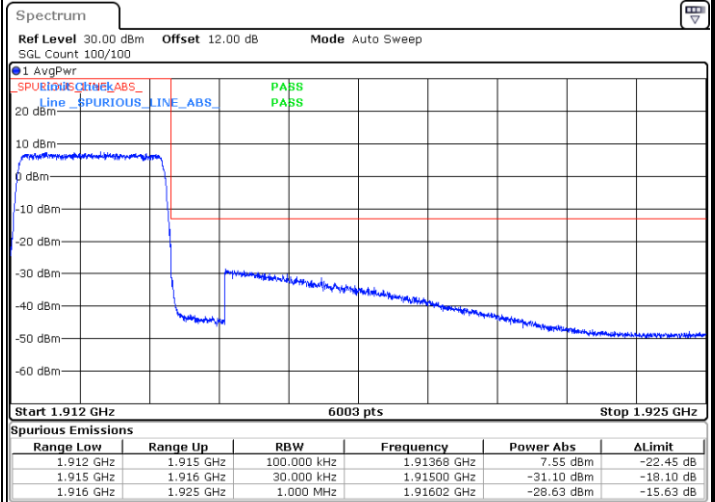
Date: 18.APR.2021 07:11:39

Lowest Band Edge / Full RB



Date: 18.APR.2021 07:10:42

Highest Band Edge / Full RB

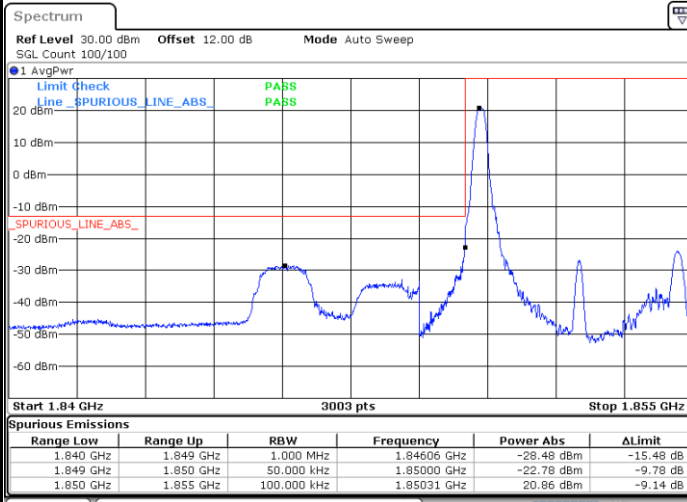


Date: 18.APR.2021 07:11:22



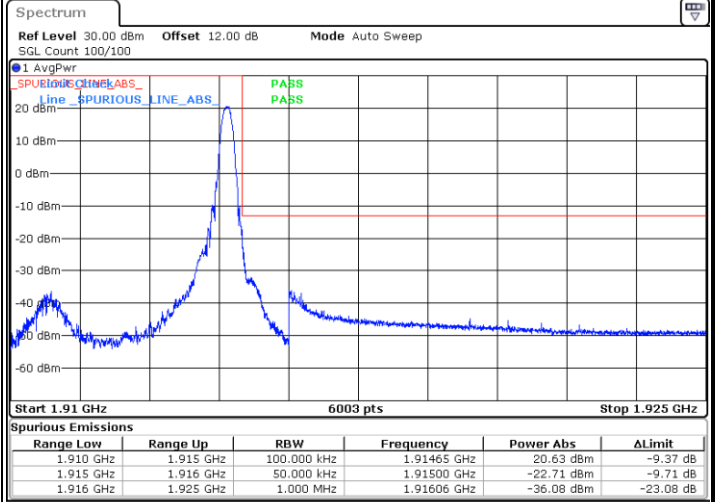
LTE Band 25 / 5MHz / QPSK

Lowest Band Edge / 1 RB



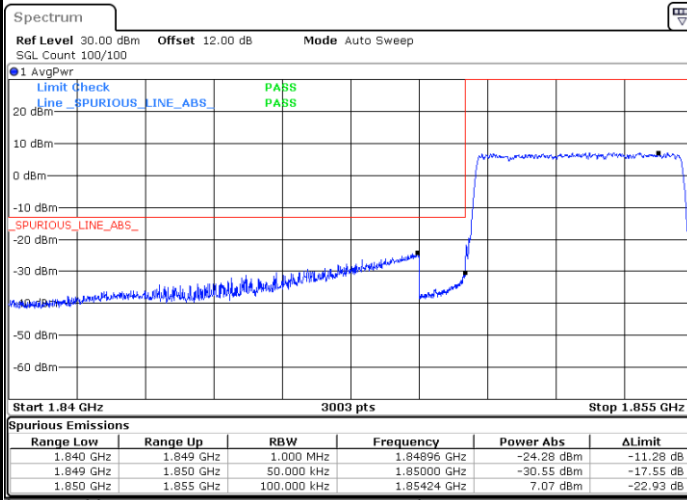
Date: 18.APR.2021 07:58:52

Highest Band Edge / 1 RB



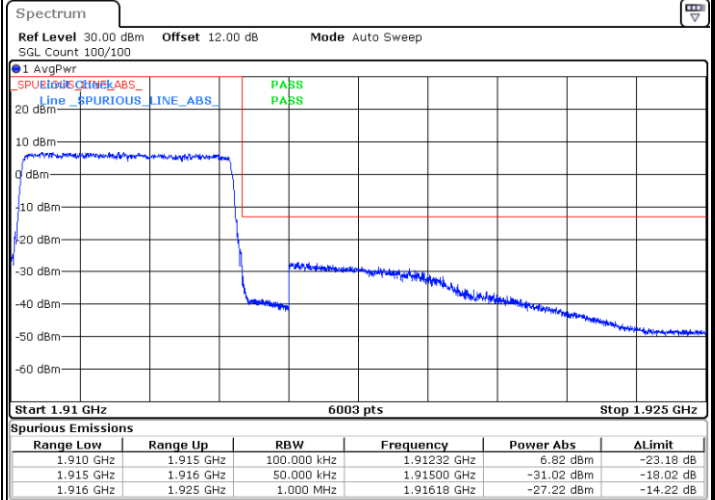
Date: 18.APR.2021 08:43:49

Lowest Band Edge / Full RB



Date: 18.APR.2021 07:59:25

Highest Band Edge / Full RB

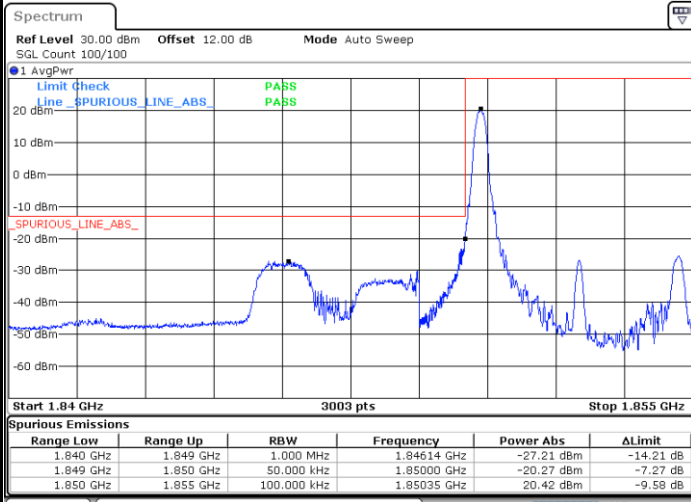


Date: 18.APR.2021 08:42:59



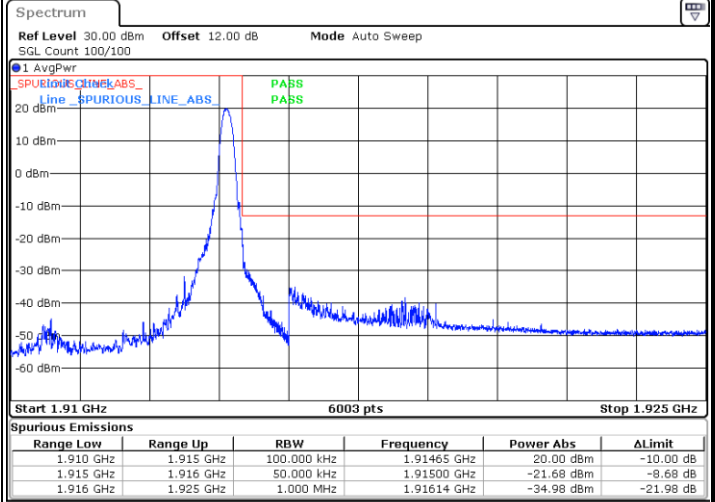
LTE Band 25 / 5MHz / 16QAM

Lowest Band Edge / 1RB



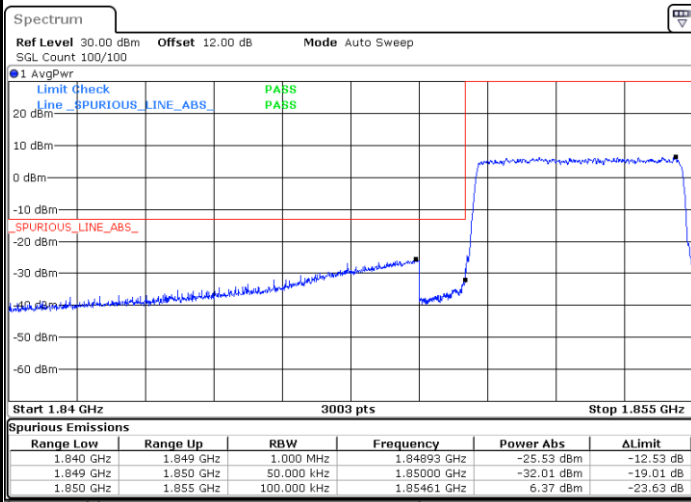
Date: 18.APR.2021 07:59:08

Highest Band Edge / 1 RB



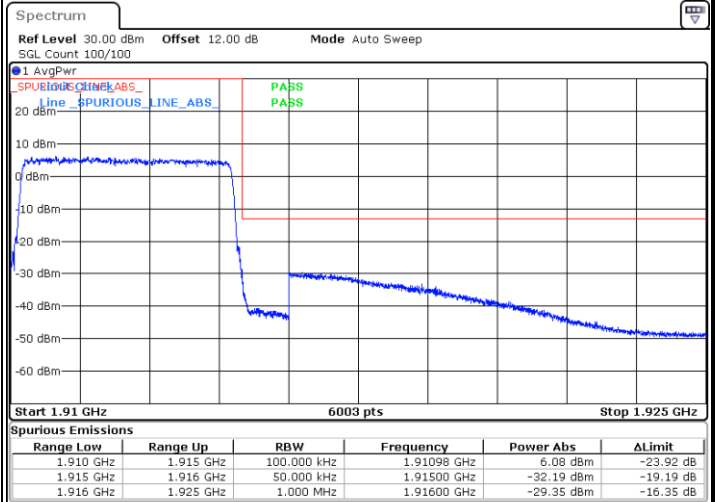
Date: 18.APR.2021 08:43:32

Lowest Band Edge / Full RB



Date: 18.APR.2021 07:59:42

Highest Band Edge / Full RB

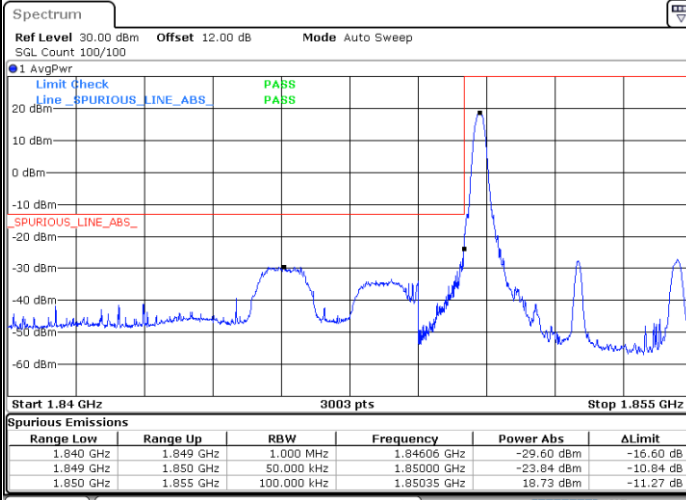


Date: 18.APR.2021 08:43:15



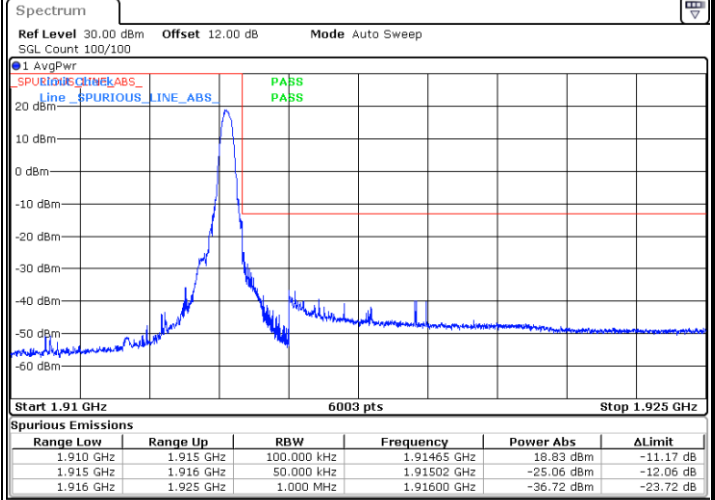
LTE Band 25 / 5MHz / 64QAM

Lowest Band Edge / 1RB



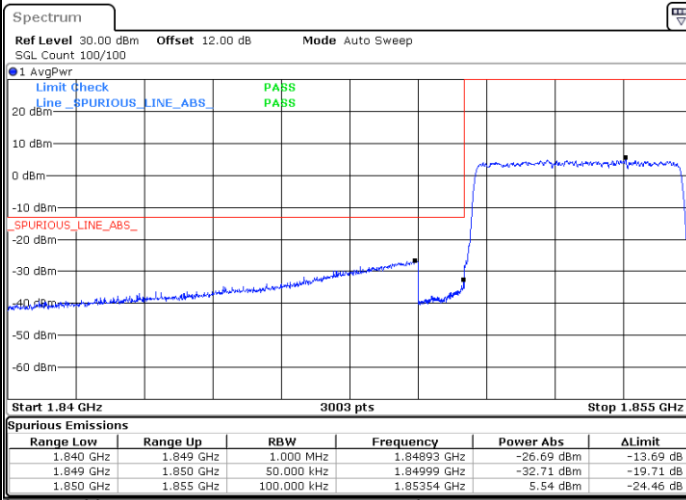
Date: 18.APR.2021 08:44:48

Highest Band Edge / 1 RB



Date: 18.APR.2021 08:46:01

Lowest Band Edge / Full RB



Date: 18.APR.2021 08:45:04

Highest Band Edge / Full RB



Date: 18.APR.2021 08:45:44